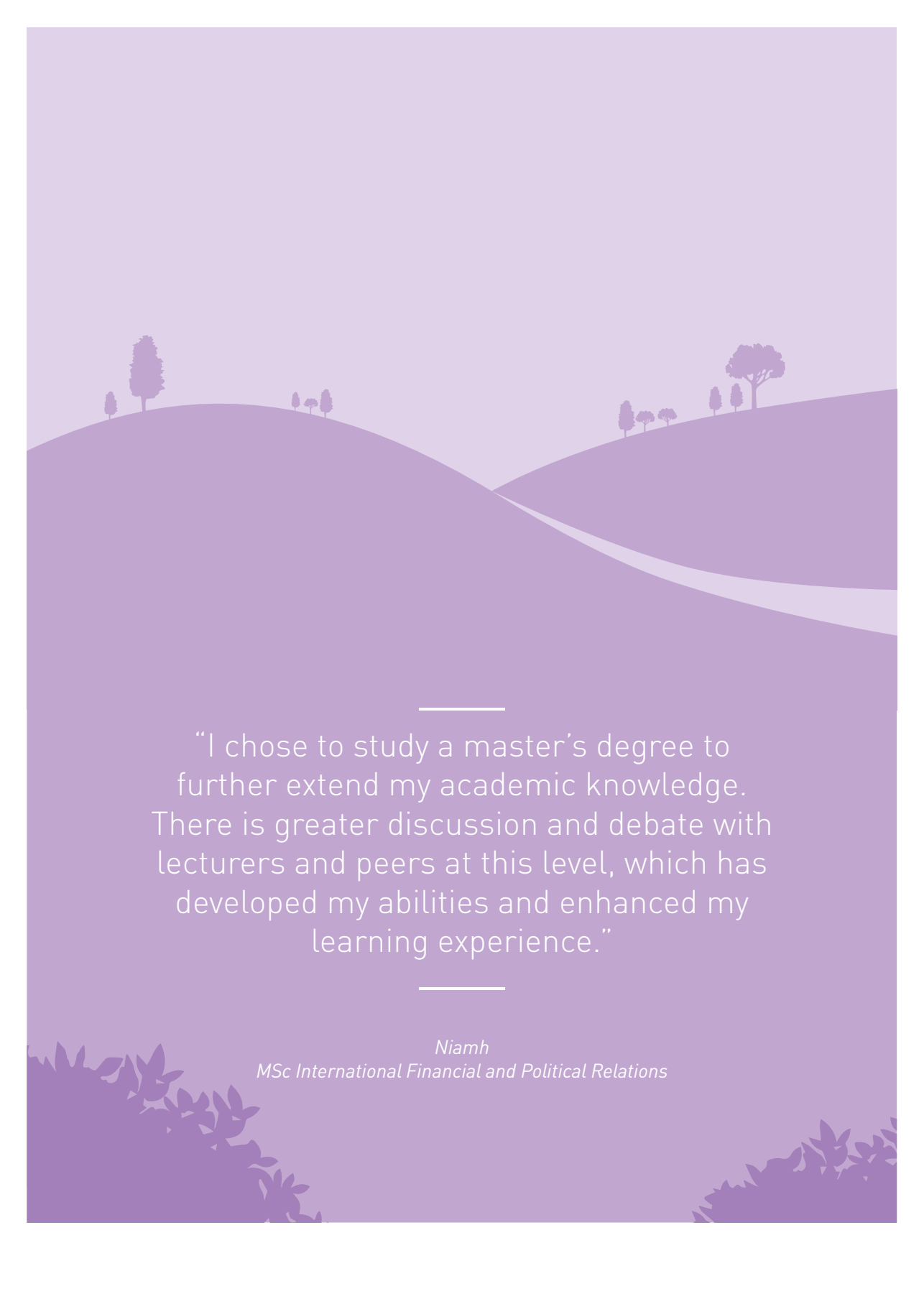




Postgraduate Prospectus
2019



“I chose to study a master’s degree to further extend my academic knowledge. There is greater discussion and debate with lecturers and peers at this level, which has developed my abilities and enhanced my learning experience.”

Niamh
MSc International Financial and Political Relations



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Inspiring Stories

From lifesaving landslide systems to successful student entrepreneurs, each Inspiring Story provides a fascinating insight into teaching, research and impact at Loughborough.

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Welcome

At Loughborough University we understand the importance of working together, sharing ideas and growing our community.

Our postgraduate community is built on a foundation of academic excellence and an environment where students form enduring professional and personal friendships that are integral to their intellectual development and future careers. Our postgraduates are essential to our research and their contribution is a key part of both their success and ours.

Loughborough postgraduates, like our staff, come from across the world. Many work with our partners in business, industry and the professions, as part of widening their knowledge and experience, developing new ideas and studying beyond the current boundaries of thinking. They also benefit from the wide range of opportunities that make up the broader student experience and become an integral part of the Loughborough family.

Our students and staff are excellent scholars in their own right but often achieve great success through co-operation and collaboration.

By choosing Loughborough you will make your own individual contribution to excellence and be able to share in our attainment.

I hope that my colleagues, current postgraduate students and I will be welcoming you to either campus soon, so that you too will benefit from the academic excellence that lies at the heart of Loughborough University.

Kind regards,

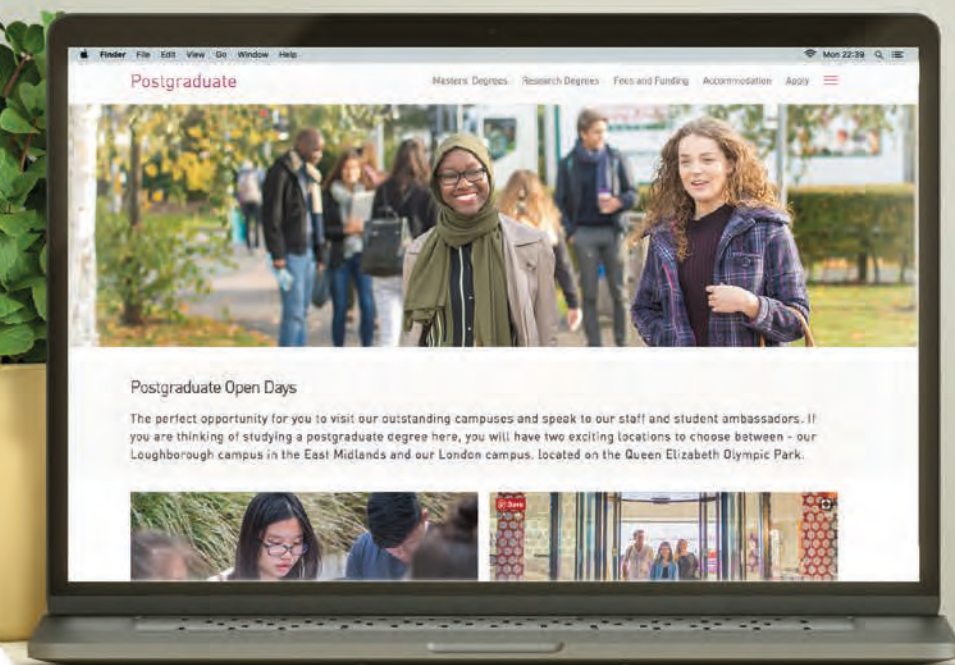
Professor Robert J. Allison
Vice-Chancellor and President

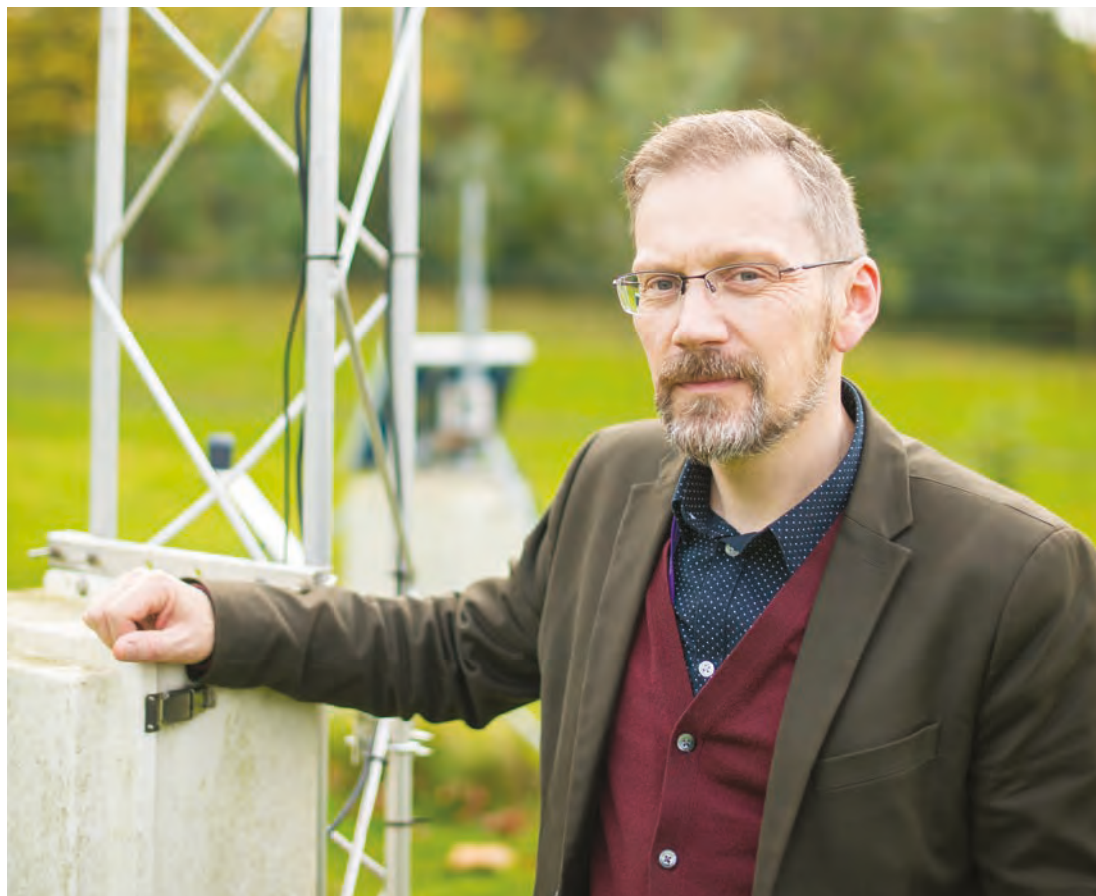
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Why Loughborough?

Our world-class research, outstanding teaching quality and passion for student experience have enabled us to create something truly special. Whether you decide to study at our Loughborough or London campus, you will become part of an ambitious community of students and staff who are committed to helping each other reach their full potential academically, professionally and socially.

Discover Europe: From our Loughborough campus, East Midlands Airport is only 20 minutes away, offering cheap, easy access to destinations across Europe and beyond. The Eurostar, 35 minutes from our London campus, is a high-speed railway service connecting the city with Amsterdam, Brussels, Lyon, Paris and many more European cities.





Dr Richard Hodgkins

Senior Lecturer in Physical Geography

Dr Hodgkins is a Senior Lecturer in Physical Geography. His work focuses on the water cycle in Arctic environments.

He recently received the Vice-Chancellor's Award for Excellence in Teaching and Learning thanks to his high level of student engagement and inspiring teaching values, as well as for his contribution to achieving accreditation for Loughborough's Geography and Environment courses. Alongside his multiple academic endeavours, Richard is also a member of the UK Arctic-Antarctic Partnership Steering Committee, which oversees the country's national polar science strategy.

Follow Richard on Twitter [@Rich_Henriksen](https://twitter.com/DRich_Henriksen)



Teaching excellence

Our commitment to providing world-class teaching at Loughborough means our students can benefit from an unparalleled learning experience.

Thanks to the quality of our teaching and incredible student experience, Loughborough consistently scores highly in major national rankings. We are in the top 10 in every UK league table – something that we are incredibly proud of.

Academic staff

Loughborough's reputation attracts outstanding academics from around the world, many of whom are expert leaders in their fields. This is important to us, as it means that we can offer our students opportunities to learn from passionate subject specialists who are at the forefront of current research.

Our facilities

Our campuses are not only a welcoming and friendly home for our staff and students, they are also the site of some incredible learning facilities. With purpose-built lecture theatres, state-of-the-art laboratories, libraries, an arts centre, two theatres, dedicated 24/7 computer suites and many more additional teaching spaces, we can offer our students everything they need for a successful academic career.



Our research and impact

As one of the England's top 10 research-led universities (REF 2014), Loughborough is renowned for its academic work and the benefits it brings to both society and our students' learning. Being part of a university with such a passion for solving real-life issues is incredibly rewarding – it will be hard not to feel inspired by the work going on around you.

We are proud of our pioneering position amongst research-led universities, not only because of the impact that has on our academic reputation but also because of the contribution we're making to society and the rest of the world. Whilst our main focus is on the welfare and experiences of our own students, we recognise another responsibility to actively partake in the improvement of lives worldwide. Find out more about our research: lboro.ac.uk/research

Queen's Anniversary Prizes

In acknowledgement of our huge contribution towards research with impact, Loughborough has received seven Queen's Anniversary Prizes for Higher and Further Education.

This is an esteemed biannual award that recognises outstanding educational achievement in areas of service and benefit to the nation. Only Oxford has achieved more.

lboro.ac.uk/qap

Opportunities for students

The vibrant research culture that is prevalent at Loughborough provides our students with a supportive learning experience and excellent standards of academic supervision.

As well as being able to derive specialist skills and knowledge from top-quality research practice, our long-standing collaborative relationships with industry, public and private sector organisations invite excellent career opportunities.



AWARDED SEVEN
QUEEN'S
ANNIVERSARY
PRIZES



CARM

The science of talk

Researchers in the School of Social Sciences are committed to understanding conversation scientifically, in everyday and workplace settings. They have developed an innovative, research-based alternative to conventional communication skills training known as CARM (Conversation Analytic Role-Play Method), using real, recorded material instead of simulation and role-play.

CARM informs communication training in public, private and third sector organisations. To date, over 300 CARM workshops have been delivered around the world.

This research area is led by Professor Elizabeth Stokoe. Find out more about her expertise in conversation analysis by watching her TEDx Talk at the link below, and by following her on Twitter @lizstokoe. carmtraining.org





The Doctoral College

Loughborough Doctoral College reflects the University's commitment to providing an outstanding experience for our research students.

Loughborough Doctoral College

The Doctoral College is responsible for all research students at the University. It brings together administrative research and development activities from across our two campuses, supports the management of doctoral degrees and ensures their quality, oversees the recruitment of students, and provides specialist training to enable our doctoral researchers to develop a range of research and transferable skills.

The doctoral experience

We aim to provide a community-based experience for all of our doctoral researchers through a range of seminars, conferences, networking opportunities and social events, in addition to our formal training programme.

Our annual research conference attracts over 150 researchers from across the University and won Academic Event of the Year at the Students' Union awards in 2016 and 2017.

Training and development

Our comprehensive training programme is mapped directly onto the Researcher Development Framework developed by Vitae, the UK's national organisation for researcher development. The programme encourages researchers to identify their current skills and future goals, and offers targeted training and development activities across all disciplines.

The annual programme includes training and support in the following areas:

- knowledge and intellectual abilities
- personal effectiveness
- research governance and organisation
- engagement, influence and impact.

Graduate House

The Doctoral College training programme is delivered at Graduate House, a dedicated postgraduate taught and research facility at the centre of the Loughborough campus. In addition to the training facilities, Graduate House includes the Graduate Hub, a flexible study and social space with a communal kitchen, which is open at evenings and weekends.

Centres for Doctoral Training

Loughborough is proud to be involved in a number of research council-funded Centres for Doctoral Training (CDTs), each offering a unique and enhanced experience for doctoral researchers. For more information about our CDTs, see p14-15.

PhD Support Network

Run by existing doctoral researchers at Loughborough, the PhD Support Network is an informal weekly drop-in session. Doctoral researchers can seek advice and share best practice amongst their peers, as well as build friendships with students from other disciplines.

"The Doctoral College supports researchers through every step of their research journey, through extensive training, collaboration and partnership."

—
Professor Elizabeth Peel
Associate Pro-Vice Chancellor (Doctoral College)



INTERNATIONAL QS STARS
SCHEME 2017
AWARDED 5*
FOR RESEARCH



—
"I chose Loughborough because of the research facilities and the enormous support available for doctoral students."

—
Ime
PhD student

Centres for Doctoral Training

Centres for Doctoral Training (CDTs) are multi-disciplinary centres located at our Loughborough campus. These centres bring together various areas of expertise in order to solve the research challenges of tomorrow.

Funded by research councils, such as the Engineering and Physical Sciences Research Council (EPSRC), the Natural Environment Research Council (NERC), the Economic and Social Research Council (ESRC), and the Arts and Humanities Research Council (AHRC), CDTs provide unique opportunities for students who wish to receive the technical and research knowledge and skills to tackle current and future problems.

CDTs are research groups which aim to understand a specific issue. They are comprised of research students and staff both at Loughborough and partner universities and companies, drawing on the expertise of each to address the research problem. As such, students may be expected to spend time away from Loughborough at partner institutions and organisations.

CDT programmes are typically studied across four years, with the first year mostly consisting of training and skills development, followed by three years researching an agreed topic.

Throughout the programme students are given opportunities to engage with industry and develop important transferable skills to enhance their employability.

We also have a series of mini-CDTs, based exclusively at Loughborough, addressing issues in the arts and humanities, social sciences and fundamental science. These mini-CDTs explore interdisciplinary research areas or translate expertise into new application areas, with students benefiting from cross-discipline activity.

Studentships covering the full cost of UK/EU tuition fees and a stipend are available for students from a range of disciplines. For more information on postgraduate research funding, please see p232.

Details of each of the CDT and mini-CDT programmes available at Loughborough can be found on our website:

lboro.ac.uk/pg2019/cdt



REF 2014
TOP 10 RESEARCH
UNIVERSITY IN ENGLAND



FULLY-FUNDED
STUDENTSIPS
AVAILABLE



lboro.ac.uk/pg2019/cdt

LOUGHBOROUGH UNIVERSITY

Rongtian He (China)
MSc Sport Management

Rongtian joined Loughborough University in 2012, graduating with a master's in Sport Management.

Studying at Loughborough enabled Rongtian to pursue his interest in sport and a career in the football industry, whilst his extra-curricular activities saw him travel to South Africa with the Balls to Poverty charity (where he also took an FA coaching course) and complete internships at Red Lantern Digital Media and Talksport.

Rongtian is now Executive Assistant to the Chairman and a board member at Aston Villa Football Club, where he was involved in the acquisition of the Club by Recon Group in 2016.



"Loughborough University has a prestigious reputation in the UK. If you want a career in the sports industry, Loughborough is the place to go. My experience there was second to none."

LOUGHBOROUGH ALUMNI

Fiona English (UK)
MA Performance and Multimedia

Fiona studied for a BA Drama and Theatre Studies at Loughborough before undertaking a part-time master's in Performance and Multimedia.

The programme's focus on practical theatre production experience proved invaluable to Fiona in understanding how a creative process works outside of the lecture theatre.

Fiona is now Executive Director and COO at the King's Head Theatre, a role which sees her responsible for the business side of the theatre and helping to define its organisational strategy.



"Loughborough gave me incredible experiences; not just in lectures. Taking part in a rich array of extra-curricular activities was crucial to my early success."

ALUMNI

LOUGHBOROUGH UNIVERSITY

Eleanor Lloyd (UK)
MA Media and Creative Industries

Eleanor completed a BA in English at Loughborough before studying an MA in Media and Creative Industries at Loughborough University London.

During her master's Eleanor was able to develop her interests in writing and literature, and explore other influences on media such as politics, feminism and social movements.

After graduating from her master's, Eleanor began an internship with a London-based PR company, before being offered a permanent job. Joining a small company has given Eleanor the opportunity to take on greater responsibilities and get involved in a broad range of projects.



"I loved my time in Loughborough but once my course had ended, I knew I was ready for a change. I wasn't quite ready for the real world, so studying a master's at Loughborough University London was a nice middle ground."

LONDON ALUMNI

Montez Blair (USA)
MSc Entrepreneurship, Finance and Innovation

Montez graduated from Loughborough University London in 2017, with a master's in Entrepreneurship, Finance and Innovation.

Studying at Loughborough University London enabled Montez to engage with organisations and start-ups from a broad range of industries. He was also able to network with other aspiring entrepreneurs at events like the National Student Enterprise Conference and London Tech Week.

Montez is now a Business Development Consultant at a top 10 global tech company and is using the theory and skills he has acquired to further enhance the tech industry.



"Loughborough University London has an endless amount of connections that should be leveraged and being situated in London allowed for even further growth of my professional network."

ALUMNI

Life at Loughborough

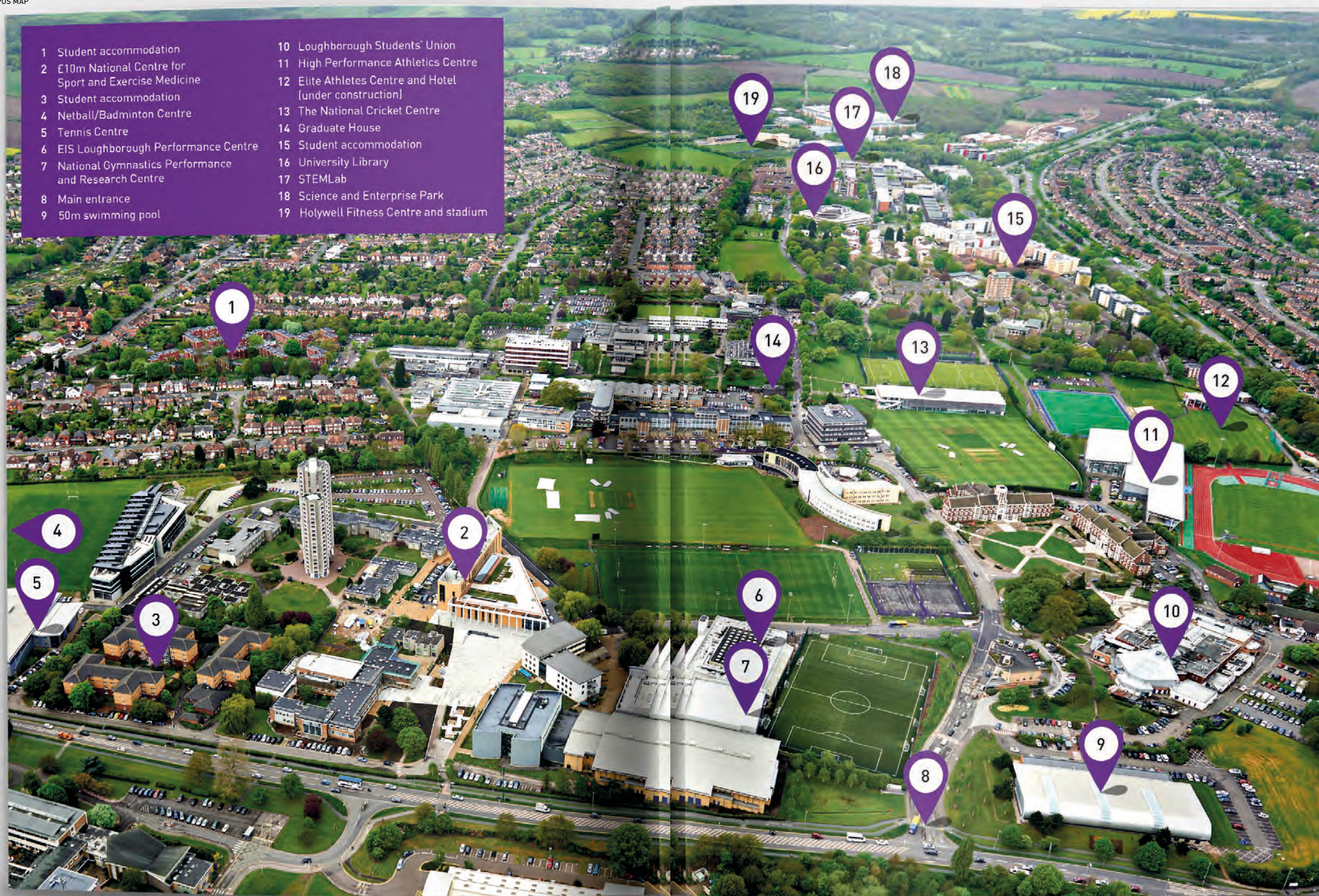
Located in the centre of the UK, our superb 440 acre, single-site campus offers great facilities for every aspect of student life. With stunning gardens and open spaces, a rich variety of shops, cafes and leisure facilities and the most advanced sports facilities in the country, it is easy to see why Loughborough has been voted as having the best student experience (Times Higher Education Student Experience Survey 2018).

Our students benefit from a friendly and inclusive atmosphere, with comprehensive support systems and incredible opportunities to get involved in social activities, sport, volunteering and the arts. With over 21,500 students and staff from more than 130 different countries, Loughborough is the perfect place to meet people from all over the world and make memories that will last a lifetime.

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To find out about student life in London, please see p32-45.



Loughborough student experience

Loughborough has been the UK's best university for student experience for over ten years, according to the Times Higher Education Student Experience Survey.

Our Loughborough campus is one of the largest single-site, green campuses in the UK, yet there is still a strong sense of community amongst our students.

We work closely with LU Arts and the Students' Union to widen your experiences and enrich your studies. With over 130 different clubs and societies, as well as sports teams, language classes, creative workshops, live performances and more, there really is something for everyone on campus.

We are passionate about providing our students with every opportunity to reach their future goals and achieve their full

potential. Every student at Loughborough is provided with the encouragement and resources they need to achieve success. Our guidance and support goes beyond your studies, as every student is part of the Loughborough family for life.

Loughborough Students' Union

Loughborough Students' Union is here to support you throughout your student journey. Student Voice is a service provided by the Students' Union and provides free, independent and non-judgemental advice and guidance for students.

Loughborough Students' Union

union@lsu.co.uk
lsu.co.uk



TIMES HIGHER
EDUCATION STUDENT
EXPERIENCE SURVEY 2018

1ST IN THE UK FOR
STUDENT EXPERIENCE



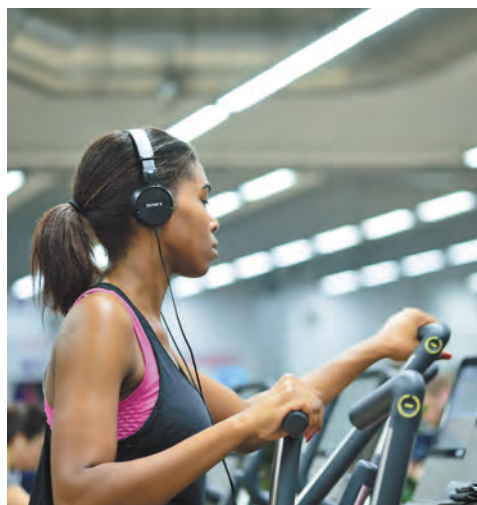
TIMES HIGHER
EDUCATION STUDENT
EXPERIENCE SURVEY 2018

2ND IN THE UK FOR
STUDENT WELFARE

"I chose Loughborough because of the sense of community around campus. Everyone has made it an enjoyable and friendly environment to be in."

Lily
PhD student





Sport at Loughborough

Loughborough have been British Universities and Colleges Sport (BUCS) champions for 38 years running and our hard-earned sporting reputation is something that we are incredibly proud of. Our campus is home to some of the best sporting opportunities in the world and, regardless of ability or experience, there is something to suit everyone.

State-of-the-art facilities

Loughborough University is home to the country's largest concentration of world-class facilities across a wide range of sports. They include an indoor athletics centre, an outdoor stadium, multiple sports halls and all-weather pitches, a 50 metre swimming pool, indoor and outdoor tennis courts and two gyms.

Holywell Fitness Centre is a great place to get active on your own or with friends and is equipped with the latest Technogym Artis range, including 75+ cardio and 70+ fitness machines.

Powerbase is our strength and conditioning gym, designed specifically for those looking to improve core fitness or sporting performance.

Get involved

For those with a keen interest in sport, there are over 50 student-led sports clubs to choose from. There are also opportunities to get involved in teams within the halls of residence, academic schools and departments, and societies.

The University's recreational sports opportunities are perfect for those looking to try something new. There are over 30 activities to choose from every week, ranging from beginner's running to UV Zumba and roller hockey to ultimate frisbee.



Living in Loughborough

Loughborough is a busy market town situated between Leicester, Nottingham and Derby in the East Midlands.

From Loughborough you can travel to London by rail in as little as 73 minutes, and East Midlands Airport is only 20 minutes away, offering easy access to destinations across the world.

Loughborough town centre is a ten-minute walk from campus, or a five-minute journey on the University's Kinch bus. In the town centre you will find a variety of well known high street shops, boutique stores and a twice-weekly market, which was named the best large outdoor market at the British Market of the Year Awards, 2017. Loughborough recently gained a multimillion pound cinema complex, complete with a Pizza Express, Nando's, Starbucks and an eight-screen cinema.

loveloughborough.co.uk

Living in Loughborough

We estimate a postgraduate student studying in Loughborough would need approximately £12,000 for the academic year to cover costs for accommodation and other living expenses, excluding tuition fees.

The UK Visas and Immigration (UKVI) office will require you to demonstrate that you have at least £1,015 per month available for your maintenance costs, up to a minimum annual total of £9,135, to be verified at the time of your visa application.

Postgraduate accommodation

We offer four self-catered halls of residence for postgraduate students, with some located on campus and others very close by. Rooms are rented on a 50-week basis and are competitively priced.

John Phillips is situated in the student village on campus and is exclusively for postgraduates.

Forest Court is on the edge of the town centre and is rented predominately to postgraduates.

Harry French accommodates a mix of students, with three houses reserved for postgraduates.

Falkner Eggington is close to the centre of campus and has several flats reserved for postgraduate students.

The Student Accommodation Centre also advertises a wide selection of privately owned accommodation in Loughborough. Suitable for singles, couples and families, these properties have been inspected and approved by the University.

loughboroughstudentpad.co.uk

Student Accommodation Centre

+44 (0)1509 274488
sac@lboro.ac.uk

The Student Advice and Support Service offers free, confidential and impartial advice on housing issues.

Student Advice and Support Service

+44 (0)1509 222058
advice@lboro.ac.uk



TIMES HIGHER EDUCATION
STUDENT EXPERIENCE
SURVEY 2018
8TH SAFEST UK UNIVERSITY



EXPERT MARKET, 2017
BEST VALUE
UNIVERSITY IN THE UK



LOVE
Loughborough

 lboro.ac.uk/pg2019/accommodation





Support for Loughborough students

From first-class resources to additional training and one-to-one support, we will provide you with the guidance and tools you need to achieve great things.

- Our campus **library** provides over 700,000 print items and over 30,000 electronic journals. The library is staffed until 2am during term time and open 24/7 during revision and exam periods.
- The **Mathematics Learning Support Centre** offers support to any students who feel they might benefit from additional help with mathematics and statistics.
- Our **Centre for Faith and Spirituality** provides support and facilities to students of all faiths and backgrounds. Existing facilities include a Christian chapel and a Muslim prayer room.
- We have an **opticians, grocery shop, hairdressers, bank and pharmacy** on campus, so our students are never too far from life's essentials.
- **Graduate House** is a dedicated learning, teaching and social hub for postgraduate taught and research students, and is located at the centre of the campus.
- The **Medical Centre** offers GP and nurse appointments for all students, as well as lifestyle checks and advice.
- Our **Student Advice and Support Service** offers free, confidential and impartial advice on topics such as immigration, housing and finance.
- Our **Disability Office** can arrange support for students with a wide range of disabilities, including physical disabilities, specific learning differences, sensory impairments and more.
- The **Academic Language Support Service** offers workshops and resources for students looking to develop their academic writing and study skills, as well as pre-sessional English language courses for international students.
- Our **Physiotherapy Clinic** offers physiotherapy, sports massage and podiatry services for students, staff and the public.
- Our **Mental Health Support Team** is available to support students with any mental health difficulties, and can provide appropriate practical and pastoral support.
- The University's **Counselling Service** offers an opportunity to talk and reflect with a professionally trained person who is outside a student's immediate situation.



WHATUNI STUDENT
CHOICE AWARDS 2018
3RD IN THE UK FOR
STUDENT SUPPORT

—
*"Throughout my time at
Loughborough, the quality of
support and guidance that I have
received has significantly exceeded
my expectations."*

—
Heema
PhD Chemical Engineering



Maximising your career prospects



**BIGGEST ANNUAL
CAREERS FAIR IN THE UK**
ATTRACTING 250+
TOP RECRUITERS
EVERY YEAR



**INTERNATIONAL QS
STARS SCHEME 2017**
**AWARDED 5* FOR
EMPLOYABILITY**

Studying a postgraduate-level qualification is not just about your academic programme or area of research. It is also about developing the right skills and experiences to reach your future career goals.

The University's Careers Network can help you to understand your skills, realise your strengths and explore your future career options. Their useful services and resources include:

- one-to-one advice and drop-ins with professional careers consultants
- workshops on career planning and job hunting
- guidance and advice from employers and alumni
- links to thousands of job vacancies and internships
- specialist support and advice for international students
- mock job interviews and assessment centres
- access to information, career planning tools and further resources via our comprehensive website.

Careers Network
careers@lboro.ac.uk
lboro.ac.uk/careers

Specialist support for researchers

Whether your aim is to work in academia or in industry, our specialist careers consultants can help to identify your career options, demystify the recruitment process, and provide practical advice and guidance on how best to market your knowledge, skills and abilities.

Support for entrepreneurs

Graduates can apply for a place at The Studio to grow their business and follow an intensive training and mentoring programme. We provide you with the resources, insight and industry expertise you need to bring your business ideas to life.

The Studio
+44 (0)1509 223437
lboro.ac.uk/the-studio

Graduate Enterprise Support

Join our Loughborough Enterprise Network (LEN) to access opportunities to meet like-minded entrepreneurs. We can help with business development meetings and connecting you to mentors and opportunities for your business.

lboro.ac.uk/students/len

Life in London

Loughborough University London is an inspiring postgraduate campus located on Queen Elizabeth Olympic Park.

The campus is part of an exciting cluster of innovators and creative makers, known collectively as Here East, which is bringing together an emerging breed of forward-thinkers and digital makers through education, business, technology and media.

Our partnerships with industry mean our programmes are led by real-world issues and genuine industry challenges. What's more, our students learn from influential thought leaders, talented researchers and inspiring academics, who each offer a unique insight into the very latest developments from within their sector.

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To find out about student life in Loughborough, please see p18-31.

A connected city

Loughborough University London is located at the heart of a dynamic and vibrant new community in East London, with excellent connections to some of London's most iconic venues.

AQUATICS CENTRE

The Aquatics Centre is open to the public and has pools for competition, training and diving. You can walk from the campus to the Aquatics Centre in just 20 minutes.

ARCELORMITTAL ORBIT

The Arcelormittal Orbit is a 114-metre high observation tower with stunning views over London. The sculpture is just 20 minutes' walk from the campus.

LONDON STADIUM

The London Stadium is one of the UK's most iconic sports and event venues, and is just 15 minutes' walk from Loughborough University London.

O2 STADIUM

The O2 is one of London's biggest entertainment venues, complete with its own cinema, bars and restaurants. You can travel from the campus to the O2 in 30 minutes using public transport.

CANARY WHARF

Canary Wharf is London's financial district, recognised for its tall skyscrapers and futuristic streets. You can travel from the campus to Canary Wharf in 30 minutes using public transport.

THE SHARD

The Shard is a stunning, 95-story skyscraper complete with restaurants, offices, and a 5* hotel. The Shard is just 30 minutes from the campus using public transport.



London student experience

With over 18 million visitors every year, it is easy to see why London was named the best student city in the world, according to QS Best Student Cities 2018.

“London is a city with many hidden gems and offers a breadth of diversity, in opportunities, culture and everything in between.”

—
Valdemar

MSc Diplomacy, Business and Trade



QS BEST STUDENT
CITIES 2018

BEST STUDENT CITY
IN THE WORLD

West End

Regarded as the home of entertainment in London, the West End is always bustling with activity, from widely-anticipated film premieres to critically-acclaimed plays, musicals and performances. The West End is also famed for its diverse range of restaurants and bars, from exquisite fine dining in Mayfair to authentic Asian cuisine in Chinatown.

Oxford Street

If you are looking for high-end fashion and the latest trends, then Oxford Street is the place to go. Located 25 minutes from campus, Oxford Street occupies all of the largest high street retailers, including Topshop, Zara and John Lewis, as well as Selfridges' original flagship store.

Westminster

Westminster is home to many of the UK's most iconic attractions, including Buckingham Palace, the Houses of Parliament and Big Ben. You can reach Westminster in less than 10 minutes by using the Southeastern rail service from Stratford International station, which is just a few minutes' walk from the campus.

Camden Town

Located 30 minutes from campus in North London, Camden Town is a fun and alternative area to shop, eat and socialise. Famous for its vibrant street market, the area attracts thousands of visitors looking for unique clothing, art and gifts.



lboro.ac.uk/pg2019/london-location



Life on Queen Elizabeth Olympic Park

Located at the heart of Queen Elizabeth Olympic Park, Loughborough University London is surrounded by a vast array of world-class sporting, social and cultural venues.

Here East

Home to Loughborough University London, Here East is a thriving, collaborative community which fuses business, technology, media and education to develop the products and services of the future.

Shopping and entertainment

Westfield Stratford City is Europe's largest urban shopping and leisure centre, which includes over 250 shops and a growing number of places to eat and drink. Located minutes from the campus, the complex also boasts a 17-screen cinema and futuristic bowling alley.

Restaurants, bars and cafés

Adjacent to the campus is East London's stylish new social scene, Canalside. Canalside offers a selection of retailers and restaurants for passers-by to eat, shop and relax amidst the gardens and narrow boats of the Lee Canal.

Olympic venues

Our students receive exclusive tickets and volunteering opportunities across the park and can also enjoy a discounted gym membership with access to the Copper Box Arena, London Aquatics Centre and more.

"Being located on Queen Elizabeth Olympic Park has enabled me to continue my interest in sports volunteering. I am an active volunteer for The Park and a local youth service, Young Hackney."

Lindsay
PhD Sport Business

Living in London

There are a number of secure and friendly accommodation options close to campus that aim to suit every lifestyle and budget.

Unite Stratford ONE

Unite Stratford ONE offers single en-suite rooms and studio apartments within walking distance of the campus. Each room offers a private bathroom, private study area, large bed and plenty of storage, WiFi, communal cleaning and bills are included in the rental price.

Claredale House

Claredale House is 2.5 miles away from the City of London and 20-30 minutes from the campus using public transport. Set around a stunning internal courtyard, each room in Claredale House is centrally-heated, fully-furnished and includes Internet access, making it ideal for postgraduate students.

East Village

East Village is the former Athletes' Village of the London 2012 Olympic and Paralympic Games. Located within walking distance of the campus, East Village is ideal for couples, small groups and families. A school, nursery and state-of-the-art health centre are all close-by, as well as a number of handpicked independent retailers.

Booking and advice

Students are required to book their accommodation directly with their chosen provider, who is then responsible for managing the tenancy agreement with the student.

Student Advice and Support Service

The Student Advice and Support Service offers free, confidential and impartial advice on housing issues.

Student Advice and Support Service

+44 (0)1509 222058
advice@lboro.ac.uk

Living in London

We estimate the average cost of living for students in London to be around £15,000 for the academic year. This includes the costs of accommodation and other living expenses, excluding tuition fees.

The UK Visas and Immigration office advises London-based international students to have at least £1,265 per month available to cover their living costs, up to a minimum annual total of £11,385, to be verified at the time of your visa application.





Support for London students

The support available across both campuses is what makes the Loughborough student experience so special.

Our dedicated team of support staff are available to answer questions and offer assistance with campus facilities and equipment. They are also the first point of call for advice and guidance on matters that might affect your studies, such as:

- health care
- mental health support
- visas and immigration
- counselling
- learning difficulties
- mitigating circumstances.

London Student Support
+44 (0)20 3805 1348
london-enquiries@lboro.ac.uk

Loughborough Students' Union
Loughborough Students' Union is always on your side and is here to support you throughout your student journey. Student Voice is a service provided by Loughborough Students' Union and provides free, independent and non-judgemental advice and guidance for students.

Loughborough Students' Union
union@lsu.ac.uk
lsu.co.uk/london

Disability Office

The Disability Office works to support students with difficulties which impact their studies. Our friendly, professional team provide one-to-one support and organise learning and assessment arrangements to best meet the needs of individuals.

Disability Office
+44 (0)20 3805 1351
london-disability@lboro.ac.uk

Student Advice and Support Service

Our Student Advice and Support Service offers free, confidential and impartial advice on topics such as immigration, housing and finance. You can speak to the team over the phone, or arrange a video call.

Student Advice and Support Service
+44 (0)1509 222058
advice@lboro.ac.uk

Centre for Faith and Spirituality

The Centre for Faith and Spirituality is the focus of religious, spiritual and faith-based activities for the University, and works to support students across both campuses. There is a dedicated prayer room at the London campus, and pastoral support available for any student, regardless of their religious or spiritual beliefs.

Centre for Faith and Spirituality
+44 (0)1509 223741
cfschaplains@lboro.ac.uk

—
*"Whatever challenges you may face along the way,
the University will be there to support you."*

—
Karim
MSc Design Innovation Management

Maximising your career prospects

Loughborough University London provides a variety of opportunities for you to develop the skills and attributes you need to reach your career goals.

Throughout the duration of your programme, you will take part in a wide range of activities that have been designed to enhance your personal and professional development.

Career development is an intrinsic element of every postgraduate programme at Loughborough University London. From employability assessments to tasks set by real organisations and from site visits to organisation-based dissertation projects, we will connect you to a wide range of opportunities that will enhance your professional skills and experience.

Collaborative Project

A key feature of many of our programmes is the Collaborative Project module, where a cross-section of students work together to provide a solution to a brief put forward by a real business or organisation. Each team will master creative ways to negotiate and solve problems, whilst acquiring new industry knowledge and commercial awareness.

Collaborative Project partners include:



Support for Entrepreneurs

We have developed a flexible package of support to ensure that every student has the chance to realise their entrepreneurial ambitions. Whether you are interested in starting a business, in the process of launching one, or you would simply like to get involved, our Enterprise Hub on campus and our connections to London's startup community will give you the experiences, opportunities and insight you are looking for.

"I've been able to reach out to different companies and gain an insight into their day-to-day operations and challenges. It's something that most people would never get to do."

—
Lauren
MSc Sport Business and Innovation



Information for international students

Loughborough University is a truly global institution with a strong commitment to providing an outstanding learning experience for all students.

The International Office at Loughborough is a friendly, experienced and knowledgeable team who work to provide the highest-quality experience for international enquirers, applicants and students.

We have a long history of welcoming international students to Loughborough and currently have around 4,000 postgraduate students from over 130 countries studying with us.

International Office
+44 (0)1509 222201
international-office@lboro.ac.uk



INTERNATIONAL
QS STARS
SCHEME 2017
FIVE-STAR PLUS
RATING

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International entry requirements

The entry requirements listed in this prospectus are based on UK undergraduate degree classifications.

The table below should be used as an approximate guide to some of the equivalent international qualifications accepted by Loughborough University.

Standard UK undergraduate degree classification:	High 2:1 (65%)	2:1	High 2:2 (55%)	2:2
China: ShanghaiRanking top 250	81%	80%	78%	77%
China: ShanghaiRanking 251-500	84%	83%	81%	80%
China: ShanghaiRanking 501+	87%	86%	85%	82%
India: universities listed on the Indian Ranking of Higher Educational Institutions Framework	63%	60%	58%	55%
India: all other universities	68%	65%	63%	60%
Nigeria: GPA 7-point scale	-	5	-	4
Nigeria: GPA 5-point scale	-	3.8	-	3
Nigeria: GPA 4-point scale	-	3	-	2.5
Nigeria: classification	-	Upper second	-	Lower second
Saudi Arabia: GPA 5-point scale	-	3.75	-	3.5
Saudi Arabia: GPA 4-point scale	-	3	-	2.8

The grade equivalences listed in this table should be interpreted as a general indication only. Due to the range of factors considered when assessing an application, it is impractical to adhere to exact percentage requirements or equivalences between marks gained in different countries.

To find out more, visit: lboro.ac.uk/international



Making a decision on your application

When assessing your application the University will consider a range of different factors, including:

- your average marks, grade point average (GPA) or final grade
- the ranking or reputation of your previous university
- your English language ability
- your personal statement
- your academic references
- professional experience (if required)
- your portfolio or project proposal (if required).

Standard English language requirements

The standard University IELTS English language requirements are 6.5 overall with 6.0 in each individual element: reading, writing, listening and speaking. Some programmes may require higher English language levels; please check the programme details for exact requirements. Students should take an IELTS test from a UKVI-approved test centre. We also consider TOEFL and some national curriculum qualifications. Alternatively, you may wish to take one of our English language pre-session courses. Please see our website for more details.

 lboro.ac.uk/pg2019/international



Additional support for international students

Choosing to study away from your family and friends can be a new and challenging experience for many students. We offer a range of additional support and services for international students to ensure you enjoy every moment of your time with us.

Financial support

We offer a number of prestigious scholarships, bursaries and awards to support international students at all levels of study. For more information, please see p230-233.

Academic language support

The Academic Language Support Service offers pre-session English language courses for students who do not currently meet our IELTS requirements. These courses are also recommended for students who are new to the UK or those who wish to develop their academic language skills further.

The Academic Language Support Service is there for you throughout your studies and offers useful workshops and advice to help you improve your academic language, enhance your study skills and build your confidence.

Academic Language Support Service
+44 (0)1509 228325
lboro.ac.uk/services/alss

Student Advice and Support Service

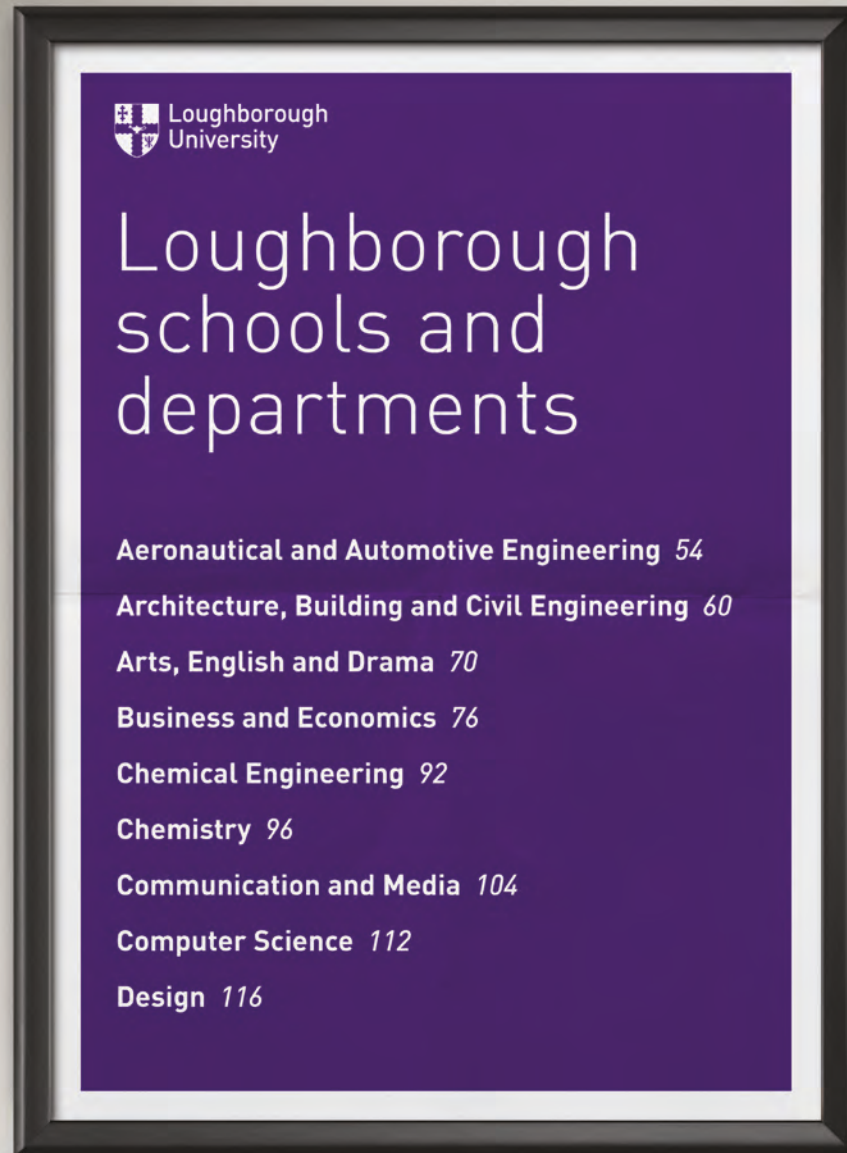
The Student Advice and Support Service offers free, confidential and impartial advice on topics such as immigration, housing and finance. You can speak to the team over the phone or arrange a video call.

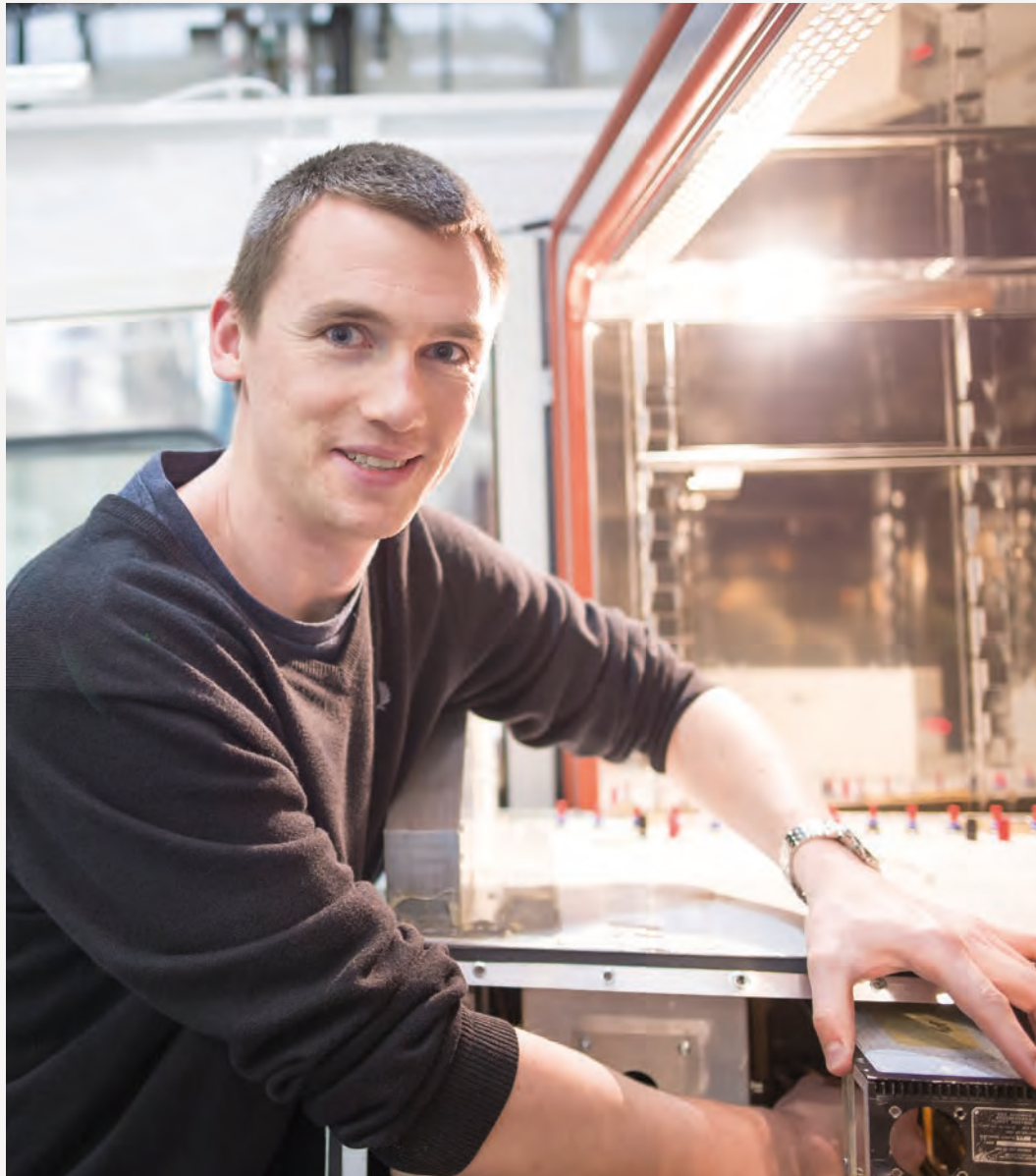
Student Advice and Support Service
+44 (0)1509 222058
advice@lboro.ac.uk

Arriving in the UK

We offer a free coach service from Heathrow to the Loughborough campus on selected dates prior to the start of our pre-session courses and the autumn term. You can find out more about the service, as well as other ways to reach the campus, at:

lboro.ac.uk/international/getting-here





Andy
PhD student

"Each day provides a new learning opportunity – you stumble across new information which answer questions you previously hadn't thought to ask."



THE TIMES GOOD
UNIVERSITY GUIDE 2018
TOP 10 IN THE UK FOR
AERONAUTICAL AND
MANUFACTURING



THE COMPLETE UNIVERSITY
GUIDE 2019
TOP 10 IN THE UK FOR
AERONAUTICAL AND
MANUFACTURING
ENGINEERING



£17M STEMLAB
FACILITY

Aeronautical and Automotive Engineering

The Department of Aeronautical and Automotive Engineering is an engineering specialist centre for teaching and research.

With programmes dating back to 1919, the Department's reputation for teaching and research has been built on 100 years of excellence. Today, the Department consists of a thriving community of postgraduate students and research associates from all over the world, who benefit from the expertise of world-class academic staff.

The £14 million state-of-the-art facilities include laboratories, workshops, wind-tunnels, a flight simulator and a technical display area with a recently retired military aircraft. Loughborough University's £17 million STEMLab is adjacent to the Department and offers first-class engineering, science and materials laboratories, forming a truly cutting-edge learning facility for Loughborough students.

Research

The Department has a strong and expanding research provision, centred on four major research groups. The groups cover a broad range of research areas, from the development of new low emissions combustion systems for gas turbine engines through to fundamental investigations into the operation of hydrogen powered fuel cells.

The Department has an impressive number of strong strategic partnerships within the sector which aim to bridge the gap between academia and industry. The Rolls-Royce University Technology Centre in Combustion System Aerothermal Processes and the Caterpillar Innovation and Research Centre in Engine Systems are both situated within the Department. There are also excellent links with a range of other top engineering companies, including BAE Systems, Bentley, Cenex, Ford Motor Company, Jaguar Land Rover, Lotus Group, Marshall Aerospace, Mercedes, Nissan, Petronas, and Red Bull Racing.

Our programmes

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Automotive Systems Engineering	p57
Certificates in Automotive Engineering	p57



lboro.ac.uk/pg2019/aae

Research opportunities

PhD: 3 years full-time; 6 years part-time
MPhil: 2 years full-time; 4 years part-time

Entry requirements

An honours degree (first or 2:1) or equivalent overseas qualification in engineering, mathematics or science.

Fees

Band RB (see page 228 for details).

As a research student in the Department of Aeronautical and Automotive Engineering, you will have the opportunity to not only become an independent researcher but to create a lasting network of peers. Attendance at relevant conferences is encouraged with bursaries for travel made available on a competitive basis.

Supporting you

You will be assigned a supervisory team who, together with the Director of Doctoral Programmes, provides academic and pastoral support. Training and departmental seminars will help you to develop your skills and you will be expected to present your own research papers. You will be provided with your own desk and computer in a shared departmental office, with access to library, IT and state-of-the-art laboratory facilities.

How to apply

Projects which have funding attached (eg through research councils, university funding or industry sponsorship) are advertised on our online prospectus and do not require a research proposal.

For self-funded projects or those funded by third-party sponsors, you should indicate the research group with which you would like to study and preferably the member(s) of staff whose research area is of most interest. A detailed research proposal can be included with the application but is not necessary.

Our areas of research

Aerodynamics and Flight Research

This includes the Rolls-Royce University Technology Centre (UTC) working on experimental and computational studies of gas turbine combustion systems to reduce emissions; the Ground Vehicle Aerodynamics Research Group, working with Jaguar Land Rover on drag reduction for future road vehicles; and the Centre for Autonomous Systems, working with BAE Systems and DSTL on the challenges of unmanned aerial vehicles.

Low Carbon Vehicles

Research focuses primarily on low carbon vehicles, propulsion systems and autonomous transport. Experimental and computational studies and research that leads to enhanced understanding relevant to the industry is supported by AVL, Caterpillar, Ford Motor Company and Jaguar Land Rover.

The main aim is to improve vehicle efficiency and reduce emissions (including CO₂). This is supported by advanced research on mapping and calibration of hybrid powertrains, as well as on fluid flow and combustion modelling. We have had successes in combustion of sustainable fuels, exhaust after-treatment systems, ultra-low emission combustion systems, fuel cells, battery technology and super-capacitor research for hybrid and electric vehicles.

Centres for Doctoral Training

Centres for Doctoral Training (CDT) integrate three years of PhD study with one year of research training and have strong industrial links. The Department currently participates in three centres:

- Gas Turbine Aerodynamics, in partnership with the Universities of Cambridge and Oxford
- Embedded Intelligence, in partnership with Heriot-Watt University
- Fuel Cells and Their Fuels, in partnership with the Universities of Birmingham and Nottingham, Imperial College London and University College London.

For more information, please see

lboro.ac.uk/pg2019/cdts

Taught programmes

Automotive Systems Engineering

MSc

Full-time length: 1 year

Part-time length: 3 years

Entry requirements

An honours degree (2:1 or above) or equivalent overseas qualification in engineering or physical sciences. Applicants with a 2:2 (or equivalent) may be considered with relevant experience in the automotive industry.

Fees

Band 3 (see page 228 for details).

Programme overview

Our MSc Automotive Systems Engineering was created with industry partners, including Ford Motor Company and Jaguar Land Rover, and will provide you with knowledge and technical expertise in a wide range of automotive disciplines. It is accredited by the Institution of Mechanical Engineers (IMechE) towards Chartered Engineer (CEng) status.

You will benefit from access to the vehicle proving ground facilities at Horiba MIRA Ltd near Nuneaton, Warwickshire. You will also have use of MATLAB and Simulink software for technical computation.

The Department has a strong and growing research programme with world-class research activities and facilities. We have four major research groups working across the technologies of automotive and aeronautical engineering. Each group works on a variety of research topics, ranging from the development of new low emissions combustion systems for gas turbine engines, through to fundamental investigations into the operation of hydrogen powered fuel cells.

Modules

You will study a compulsory 60-credit MSc Project module. Your remaining 120 credits will be chosen from optional modules. These may include: Autonomous Vehicle Systems; Body Engineering; Powertrain Calibration Optimisation; Sustainable Vehicle Powertrains; Vehicle Aerodynamics; Vehicle and Powertrain Functional Performance; Vehicle Dynamics; Vehicle Electrical Systems Integration.

How you will study

You will study through a range of seminars, lectures, tutorials, independent study, group work and practical sessions.

Who should study this programme?

Our MSc Automotive Systems Engineering is aimed at existing or prospective product development engineers.

Certificates in Automotive Engineering

PG Certificate

Full-time length: not available

Part-time length: Up to 1 year

Entry requirements

An honours degree (2:1 or above) or equivalent overseas qualification in engineering or physical sciences. Applicants with a 2:2 (or equivalent) may be considered with relevant experience in the automotive industry.

Fees

See website.

Programme overview

We offer a range of Automotive Engineering Postgraduate Certificates, designed to develop the skills needed by trained engineers to become specialists in particular disciplines within automotive engineering.

We offer three certificates: Powertrain Simulation and Test; Intelligent Vehicle Systems; Body and Chassis Simulation and Test.

Each certificate integrates engineering fundamentals, practical simulation and real world whole-vehicle testing to develop the understanding required to resolve problems and engineer better products. Each programme consists of a set of three modules from our MSc Automotive Systems Engineering, which is accredited by the Institute of Mechanical Engineers (IMechE). We also offer each module as a short course.

Modules

Body and Chassis Simulation and Test

Modules studied may include: Vehicle Systems Analysis; Body Engineering; Vehicle Aerodynamics.

Intelligent Vehicle Systems

Modules studied may include: Vehicle Dynamics; Vehicle Electrical Systems Integration; Autonomous Vehicle Systems.

Powertrain Simulation and Test

Modules studied may include: Vehicle and Powertrain Functional Performance; Sustainable Vehicle Powertrains; Powertrain Calibration Optimisation.

How you will study

You will study through a range of seminars, lectures, tutorials, independent study, group work and practical sessions.

Who should study this programme?

Our Postgraduate Certificates are for engineering professionals who wish to deepen their knowledge and understanding in a particular area of automotive engineering.



Aeronautical and Automotive Engineering

Celebrating over 25 years of partnership with Rolls-Royce

The Rolls-Royce University Technology Centre (UTC) at Loughborough University represents a pioneering partnership between academia and industry, and was established to develop new and enhanced technologies for gas turbine engines.

Director of Engineering and Technology at Rolls-Royce, Dr Stewart Miller, was part of the founding team who supported the launch of the UTC in 1991.

"Stewart Miller and his peers were really quite visionary", says Mark Jefferies, Chief of University Research Liaison at Rolls-Royce.

"They saw the benefits that a close working relationship could have for both Rolls-Royce and the University, and supported a set-up that has transformed the way we research, design, test and ultimately deliver cutting-edge new technology."

Since the launch, the UTC at Loughborough has experienced outstanding growth and now boasts a wealth of cutting edge laboratories and test facilities, with an annual research income in excess of £2.5 million.

Led by Professor Jon Carrotte, the UTC's team of researchers have over 90 years of combined experience. The team have supervised over 50 PhD candidates through to completion, published 200 journal papers, over 260 conference papers and received the award of numerous worldwide patents.

Professor Carrotte adds: "As we celebrate over 25 years of partnership and innovation, we're looking forward to moving into a new era with the establishment of the new multi-million pound National Centre in Combustion and Aerothermal Technology at Loughborough, set to open in 2019."

 lboro.ac.uk/pg2019/inspiringstories



Karen

MSc Construction Project Management
PhD Architecture, Building and Civil Engineering

—
“Loughborough has the best atmosphere for learning with friendly support;
it has made me feel at home during my studies.”



Architecture, Building and Civil Engineering

The School of Architecture, Building and Civil Engineering is one of the largest providers of postgraduate engineering education in the UK and one of only four Centres of Excellence in Sustainable Building Design recognised by the Royal Academy of Engineering.

Each programme provides students with the skills and knowledge required to face the challenges of today’s built environment and develop a better quality of life for people in the future.

The School has extensive links with industrial partners, resulting in postgraduates entering into roles with leading organisations such as Arup, Atkins, Balfour Beatty, Kier Group, Morgan Sindall, Oxfam, WaterAid and Transport for London.

Our research
Research has played a central role in the School for over 40 years and the School continues to have a leading impact on policy and practice around the world. As a world-leading centre for transdisciplinary research, the School undertakes research in civil infrastructure engineering, transport, architecture, building energy, construction management, and water and waste management.

Our programmes

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High Performance Building Engineering	p67
Infrastructure Design and Project Management	p67
Sustainable Construction Project Management	p67

Research opportunities

PhD: 3 years full-time; 6 years part-time
MPhil: 2 years full-time; 3 years part-time

Entry requirements

An honours degree (2:1 or above) or master's degree, or overseas equivalent, in a related discipline.

Fees

Band RB (see page 228 for details).

Supporting you

Our doctoral researchers are based in the Research Hub, a vibrant hot-desking facility that encourages collaborative research. An active 'Hub Committee' organises training and social events for all research students. You will also benefit from access to our excellent facilities, including our 3,000m² laboratory facilities, and High Performance computing facility.

All doctoral researchers are provided with two supervisors with expertise in the selected research area and a Director of Doctoral Programmes to provide additional guidance and pastoral support. You will also be provided with a laptop, access to our laboratory facilities, technician support and access to funds for travel and conference attendance. You will attend training courses to support your research and professional/personal development, with opportunities to support undergraduate teaching through employment as tutorial/lab assistants.

How to apply

Projects which have funding attached (eg through research councils, university funding or industry sponsorship) are advertised on our online prospectus and do not require a research proposal.

For self-funded projects or those funded by third-party sponsors, please provide an up-to-date CV and a research proposal, which should include your research interests, initial thoughts on a topic, references to previous work, the methodology you wish to take and an indication as to how the research would make an original contribution to knowledge.

Our areas of research

Architecture

Lu-Arc welcomes research proposals on a wide breadth of architectural topics, especially around our strengths of building structures and materials, digital fabrication, adaptable architecture, history and theory, and urbanism and heritage. We also invite practicing architects with exciting research agendas to join our new practice-based PhD programme.

Building Energy Demand

This research group focuses on measurement and modelling to produce healthy, high-quality indoor environments with lower energy demand and CO₂ emissions. It is organised into two sub-themes: Performance Measurement and Building Physics, and Modelling and Optimisation.

Construction Technology and Organisation

One of the UK's longest established research group specialising in the efficiency and performance of construction processes, products and organisations. Its sub-themes are Products and Processes, and Projects and Organisation. This research includes the performance and well-being of people, building sustainability and building information modelling.

Civil Infrastructure Engineering

Research in this area develops improved methods for modelling, analysing, designing, constructing and monitoring structural and geotechnical infrastructure systems using computational and experimental approaches.

Transport

This group conducts fundamental, innovative and policy-relevant research in the areas of air transport safety, technology and environmental sustainability.

Water and Waste Management

Research in this area covers water supply, waste management, sanitation and flooding.

Water, Engineering and Development Centre (WEDC)

WEDC is involved in many aspects of sustainable and resilient infrastructure and essential service delivery, focusing on sanitation and water in an international context. Some research is primarily concerned with technology, while other projects deal with sociological, economic and management factors.

Centres for Doctoral Training

Centres for Doctoral Training (CDT) provide four years of industrially supported integrated PhD study with a framework of additional training and personal and professional development.

The School currently participates in the London-Loughborough (LoLo) EPSRC Centre for Doctoral Training in Energy Demand in collaboration with University College London.

For more information about CDTs, please see

lboro.ac.uk/pg2019/cdt

Taught programmes

Air Transport Management

MSc

Full-time length: 1 year

Part-time length: not available

Entry requirements

An honours degree (2:1 or above) or equivalent overseas qualification in transport, geography, engineering, economics, management or a related discipline. Other qualifications and relevant industrial experience will also be considered.

Fees

Fee band 3 (see page 228 for details).

Programme overview

Our MSc Air Transport Management is accredited by the UK Chartered Institute of Logistics and Transport (CILT). The programme offers a critical, comprehensive and practical understanding of the structure and operation of the international air transport industry, including the regulatory, political and economic environments in which it operates, the processes it employs and the challenges it faces. Students will be equipped with a range of transferable skills and experiences that can be applied to managerial responsibilities in the workplace.

There is a compulsory research dissertation which requires students to undertake an original piece of research related to the air transport industry under the guidance of an experienced academic tutor. Previous dissertation topics have included passenger experiences of airport security, the interactions between air and high-speed rail, and airspace capacity enhancements.

Modules

Modules studied may include: Research and Communication; International Air Transport Management; Airline Operations and Marketing; Quantitative Analysis in Air Transport; Policy Planning and Design for Airport Transport; Environmental Management and Mitigation for Air Transport; Airports, Cities and Development; Aviation Safety; Research Dissertation.

How you will be assessed

You will be assessed by a combination of examination, coursework and class presentations, as well as a dissertation on an agreed topic.

How you will study

You will study through a range of seminars, lectures, tutorials, independent study, group work, practical sessions, supervision and workshops.

Who should study this programme?

Our MSc Air Transport Management is aimed at students with some prior knowledge of the air transport industry, who wish to specialise in air transport management and improve their employment prospects.

Construction Management

MSc

Full-time length: 1 year

Part-time length: 2-5 years

Entry requirements

An honours degree (2:1 or above) or equivalent overseas qualification in a relevant subject.

Fees

Fee band 3 (see page 228 for details).

Programme overview

Our MSc Construction Management enjoys a great heritage, being the longest established in the UK and the second oldest in the world. The programme is taught in close co-operation with industry practitioners and is accredited by all the relevant professional bodies.

As construction projects become more socially and technically complex in a changing world dominated by a concern for sustainability, there has been a growing challenge to develop existing and new expertise in construction management. This programme is designed to develop and sustain your knowledge and skills, and advance your career within the construction industry.

Modules

Compulsory modules studied may include: ICT for Construction Projects; Research and Communication; Principles of Design and Construction; Principles of Project Management; Research Project.

Optional modules may include: Design Management; Sustainability in the Built Environment; Management of Construction Processes; Federated 3D Building Information Modelling (BIM); Strategic Management in Construction; People and Teams; Procurement and Contract Procedure.

How you will be assessed

You will be assessed by a combination of examination, coursework and class presentations, as well as a dissertation on an agreed topic.

How you will study

You will study through a range of seminars, lectures, tutorials, independent study, group work, practical sessions, supervision and workshops.

Who should study this programme?

Our MSc Construction Management is designed for recent graduates from construction and related disciplines, and introduces the fundamentals and challenges faced by contemporary construction management. It is also suitable if you have a strong technical background which you want to complement further with requisite management know-how – essential if you want to develop a national and international career in the construction sector.

Construction Project Management

MSc

Full-time length: 1 year

Part-time length: 2-5 years

Entry requirements

An honours degree (2:1 or above) or equivalent overseas qualification in a relevant subject and/or full membership of a relevant professional institution.

Fees

Fee band 3 (see page 228 for details).

Programme overview

Our MSc Construction Project Management is tailored to construction professionals looking for a more holistic perspective of construction project processes and the challenge of project management in complex building and infrastructure projects.

Competency in project management has become a key part of the skill set of every construction professional and executive, with many construction project managers functioning in a strategic and co-ordinating role in the delivery of the client's physical development and investment programme. This MSc is designed to develop and sustain your knowledge and skills, and advance your career within the construction industry.

The Construction Project Management programme includes accredited online content to prepare students to sit the PProjects IN Controlled Environments (PRINCE2) Foundation exam or the Association for Project Management Project Fundamentals Qualification (APM PFQ).

Modules

Compulsory modules studied may include: ICT for Construction Projects; Research and Communication; Principles of Design and Construction; Principles of Project Management; Design Management; Sustainability and the Built Environment; Management of Construction Processes; Research Project.

Optional modules may include: Strategic Management in Construction; People and Teams; Procurement and Contract Procedure; Federated 3D Building Information Modelling (BIM).

How you will be assessed

You will be assessed by a combination of examination, coursework and class presentations, as well as a dissertation on an agreed topic.

How you will study

You will study through a range of seminars, lectures, tutorials, independent study and practical sessions.

Who should study this programme?

Our MSc Construction Project Management is focused on project management and is suitable for those with some post-graduation professional experience.

Infrastructure in Emergencies (Distance Learning)

MSc/Diploma/PG Certificate

Full-time length: not available

Part-time length: 2-5 years

Entry requirements

An honours degree (2:2 or above) or equivalent overseas qualification in any discipline. Successful completion of the postgraduate certificate stage (ie the first four modules of this MSc programme) may be considered as an alternative qualification.

Fees

See website.

Programme overview

Our MSc Infrastructure in Emergencies (Distance Learning) is aimed at those looking to improve the emergency water and sanitation sector in low- and middle-income countries, with the option to work flexibly from home.

The programme is managed by the Water, Engineering and Development Centre (WEDC) in the School of Architecture, Building and Civil Engineering. WEDC programmes are well-established and held in high regard by practitioners and employers from both the emergency and development sectors.

As a distance learning student you will study from home, with each 15-credit module programmed for a five-month study period. Some modules start in January and others in July.

Modules

Compulsory modules studied may include: Introduction to Infrastructure in Emergencies; Emergencies, Management and People; Emergency Water Supply; Emergency Sanitation; Data Collection, Analysis and Research; Research Dissertation.

Optional modules may include: Wastewater Treatment; Urban Infrastructure; Environmental Assessment; Integrated Water Resources Management; Water Utilities Management.

How you will be assessed

You will be assessed by written assignments and, in the case of the Research Dissertation, an oral examination (conducted by Skype if you cannot visit the UK).

How you will study

You will study printed and electronic material at home with the option of a few webinars.

Who should study this programme?

Our MSc Infrastructure in Emergencies (Distance Learning) is for graduates hoping to work, or already working, in the emergency water and sanitation sector in low- and middle-income countries.

International Water and Sanitation Engineering

MSc/Diploma/PG Certificate

Full-time length: 1 year

Part-time length: not available

Entry requirements

An honours degree (2:1 or above) or equivalent overseas qualification in a science or engineering discipline. Entry to the PG Certificate may be considered depending on alternative qualification and relevant experience, on a case-by-case basis.

Fees

Fee band 3 (see page 228 for details).

Programme overview

Our MSc International Water and Sanitation Engineering is designed to develop careers in delivering water and environmental sanitation infrastructure for low- and middle-income countries.

The programme is designed to provide the multidisciplinary knowledge and skills to assess, design, implement and operate water and environmental sanitation infrastructure, with a focus on low- and middle-income countries. Modules are taught by experts in a broad range of disciplines who have considerable experience of working in these areas. Students will develop a critical approach to the global principles and local practice of sustainable public health infrastructure for all levels of consumers. They will be equipped with appropriate expertise and skills for relevant work in water and sanitation engineering for low- and middle-income countries.

Modules

Compulsory modules studied may include: Management of Water and Environmental Sanitation Infrastructure; Assessing Water Quality and Quantity; Rural Water Supply Engineering; Assessment, Monitoring and Evaluation for Research and Engineering Practice; Household and Communal Sanitation Engineering; Appropriate Water Treatment and Distribution; Appropriate Sewerage and Sewage Treatment; Research Dissertation.

Optional modules may include: Disaster Risk Management; Humanitarian Water, Sanitation and Hygiene Promotion.

How you will study

You will study through a range of seminars, field trips, lectures, independent study and supervision.

Who should study this programme?

Our MSc International Water and Sanitation Engineering is for graduate engineers and scientists who wish to develop careers in delivering water and environmental sanitation infrastructure for low- and middle-income countries.

International Water and Sanitation Management

MSc/Diploma/PG Certificate

Full-time length: 1 year

Part-time length: not available

Entry requirements

An honours degree (2:2 or above) or equivalent overseas qualification in any discipline. Entry to the PG Certificate may be considered depending on alternative qualifications and relevant experience, on a case-by-case basis.

Fees

Fee band 3 (see page 228 for details).

Programme overview

Our MSc International Water and Sanitation Management is designed to develop careers managing water and environmental sanitation services for low- and middle-income countries.

The programme provides the multidisciplinary knowledge and skills to co-ordinate, plan, manage and monitor water and environmental sanitation services, with a focus on low- and middle-income countries. Modules are taught by experts in a broad range of disciplines who have considerable experience of working in low- and middle-income countries. A critical approach is taken to the global principles and local practice of sustainable water and environmental management for the public good. Students will be equipped with appropriate expertise and skills for relevant work in the management of water and environmental sanitation for low- and middle-income countries.

Modules

Compulsory modules studied may include: Management of Water and Environmental Sanitation Services; Water and the Natural Environment; Management of Village Water Services; Assessment, Monitoring and Evaluation for Research and Management Practice; Household and Communal Sanitation Management; Management and Operation of Water Utilities; Urban Sanitation Management; Research Dissertation.

Optional modules may include: Disaster Risk Management; Humanitarian Water, Sanitation and Hygiene Promotion.

How you will study

You will study through a range of seminars, lectures, independent study, field trips and supervision.

Who should study this programme?

Our MSc International Water and Sanitation Management is for graduates who wish to develop careers in managing water and environmental sanitation services in low- and middle-income countries.

Low Energy Building Services Engineering

MSc

Full-time length: 1 year

Part-time length: 2-5 years

Entry requirements

An honours degree (2:1 or above) or equivalent overseas qualification in engineering, science, mathematics, or a discipline related to building services engineering. Other qualifications supplemented with relevant industrial experience will also be considered.

Fees

Fee band 3 (see page 228 for details).

Programme overview

Our MSc Low Energy Building Services Engineering provides students with a holistic understanding of the principles of low energy building and building services design. This enables graduates to contribute to the global transition to a future low energy built environment.

Students learn through a carefully balanced combination of lectures, in-class guided workshops, hands-on laboratory experiments, site visits, computer modelling and independent research, the content being delivered by experts in the field. Part time students may base their research projects on the particular needs of their employer. The programme is accredited by both the UK Chartered Institution of Building Services Engineers (CIBSE) and the Energy Institute (EI), for professional registration as a UK Chartered Engineer (CEng). The course has extensive support from industry and they provide prizes and placements for our students.

Modules

Modules studied may include: Human Thermal Comfort and Indoor Environment; Building Thermal Loads and Systems; Building Energy Supply Systems and District Energy Networks; Control and Commissioning for Low Energy Buildings; Electrical Systems: Buildings and Renewable Energy; Low Energy Building Design; Thermal Modelling and 3D Building Information Modelling; Research Methods in Building Performance; Research Dissertation in Building Performance.

How you will be assessed

You will be assessed by a combination of written exams, coursework, presentations and assignments.

How you will study

You will study through a range of seminars, lectures, independent study and practical sessions.

Who should study this programme?

Our MSc in Low Energy Building Services Engineering is designed for recent graduates and built environment professionals who wish to develop their careers in the design of low energy buildings and building services systems.

Water and Environmental Management (Distance Learning)

MSc/Diploma/PG Certificate

Full-time length: not available

Part-time length: 2-8 years

Entry requirements

An honours degree (2:2 or above) or equivalent overseas qualification in any discipline. Successful completion of the PG Certificate stage (ie the first four modules of this MSc programme) may be considered as an alternative qualification.

Fees

See website.

Programme overview

Our MSc Water and Environmental Management (Distance Learning) gives you the opportunity to develop the knowledge and skills necessary to effectively plan, manage and co-ordinate water, sanitation and environmental services in low- and middle-income countries.

You will take 15-credit modules which last for five months each and are delivered by tutors with extensive experience working in low- and middle-income countries.

Comprehensive study materials are available and can be accessed remotely, whilst web-based discussion forums allow students to communicate with each other and the module tutor.

Modules

Compulsory modules may include: Management of Water and Sanitation; Water and Environmental Sanitation; Data Collection, Analysis and Research; Environmental Assessment; Integrated Water Resources Management; Case Study; Research Dissertation.

Optional modules may include: Wastewater Treatment; Water for Low-Income Communities; Solid Waste Management; Low-Cost Sanitation; Water Utilities Management; Group Project (only available under special circumstances).

How you will be assessed

You will be assessed by written assignments and, in the case of the Research Dissertation, an oral examination (conducted by Skype if you cannot visit the UK).

How you will study

You will study printed and electronic material at home with the option of a few webinars.

Who should study this programme?

Our MSc Water and Environmental Management (Distance Learning) is designed for students who are looking to develop the knowledge and skills necessary to effectively plan, manage and co-ordinate water, sanitation and environmental services in low- and middle-income countries, while studying flexibly from home.

Water and Waste Engineering (Distance Learning)

MSc/Diploma/PG Certificate

Full-time length: not available

Part-time length: 2-5 years

Entry requirements

An honours degree (2:1 or above) or equivalent overseas qualification in a science or engineering discipline. Successful completion of the PG Certificate stage (ie the first four modules of this MSc programme) may be considered as an alternative qualification.

Fees

See website.

Programme overview

Our MSc Water and Waste Engineering (Distance Learning) provides engineers and scientists with the knowledge and skills to meet the global challenge of basic services for low- and middle-income countries.

Distance learning students take 15-credit modules, each lasting for five months. Some modules start in January and others in July. These modules are designed to develop students' understanding of important aspects of sustainable public health infrastructure and services for all levels of consumers and equip them with the appropriate expertise and skills for work in low- and middle-income countries.

Modules

Compulsory modules studied may include: Management of Water and Sanitation; Water and Environmental Sanitation; Data Collection, Analysis and Research; Case Study; Research Dissertation.

Optional modules may include: Wastewater Treatment; Urban Infrastructure; Water for Low-income Communities; Integrated Water Resources Management; Solid Waste Management; Low-cost Sanitation; Water Utilities Management.

How you will be assessed

You will be assessed by written assignments and, in the case of the Research Dissertation, an oral examination (conducted by Skype if you cannot visit the UK).

How you will study

You will study printed and electronic material at home with the option of a few webinars.

Who should study this programme?

Our Water and Waste Engineering (Distance Learning) is aimed at engineers or scientists who want to improve the delivery of water and sanitation services in low and middle-income countries, with the opportunity to study flexibly from home.



The following programmes are being launched for 2019 entry. For further information, please see lboro.ac.uk/pg2019/abce

- MSc Building Information Modelling and Project Management
- MSc High Performance Building Engineering
- MSc Infrastructure Design and Project Management
- MSc Sustainable Construction Project Management



Architecture, Building and Civil Engineering

Installing early-warning landslide systems in Myanmar

Professor Neil Dixon and Dr Alister Smith, from the School of Architecture, Building and Civil Engineering, have installed technology in Myanmar that could revolutionise landslide monitoring and protect vulnerable communities. The initiative was highly commended in the University's 2017 Enterprise Awards.

The Community Slope SAFE (CSS) system was developed by Professor Dixon, Dr Smith and Dr James Flint (School of Mechanical, Electrical and Manufacturing Engineering). It works by listening to slope displacements, detecting the onset of a landslide and wirelessly communicating with a base station in the community, alerting them to the danger. The equipment was installed with the help of project funders FHI 360 and local partner Chin Committee for Emergency Response and Rehabilitation (CCERR), whose youth volunteers are being trained to use the system.

Landslides have resulted in more than 30,000 fatalities over the last decade – predominately in South East Asia and Central and South America. It is hoped CSS can help save lives by providing valuable time to evacuate.

The technology has undergone field trials with collaborators Universiti Sains Malaysia, JKR, Slopewatch and FHI 360. Further trial opportunities are being pursued in Nepal and Brazil, and project partner Datalink Electronics is developing the design to support high-volume, low-cost production.

"Many landslides are caused by heavy rainfall events and this causes thousands of people to be killed and huge damage to infrastructure", explains Professor Dixon. "Technologies exist that allow these landslides to be monitored and this could save many lives but these are too expensive, so they're not used. Community Slope SAFE is a low-cost alternative and it listens to the slope continuously – if a predetermined threshold is exceeded, it sends a warning so action can be taken."



lboro.ac.uk/pg2019/inspiringstories



Shruti

MA Graphic Design and Visualisation

"I was drawn to this master's because it offered more room for creativity. The course is self-directing involving independent learning through research and experimentation."



GUARDIAN UNIVERSITY
GUIDE 2019

13TH IN THE UK
FOR ENGLISH AND
CREATIVE WRITING



QS WORLD
RANKINGS 2018
WORLD TOP 40
FOR THE LAST
FOUR YEARS

Arts, English and Drama

The School of the Arts, English and Drama has an impressive reputation for teaching and research excellence in the fields of visual, literary and performing art.

Students have full access to a range of outstanding learning and teaching facilities, including newly refurbished study areas, state-of-the-art audio-visual equipment, a theatre, music rooms and a variety of offices for seminars and small group activities.

The School's six hubs form the heart of creativity and making at Loughborough. These are:

- Creative Digital Technology and Photography
- Textiles: Print, Dye, Woven/Constructed Textiles, Embroidery and Stitch
- Metals, Plastics and Wood

- Painting and Print Making
- Ceramics and Mouldmaking
- Performance and Rehearsal Spaces, Costumes, Sets and Props.

Innovative teaching and research

The School provides a number of exciting ways to enhance students' skills and develop their employability by incorporating the latest research developments into the curriculum, and providing teaching from leading experts in the field.

PhD students are supported by expert staff with a diverse range of research interests and experience in animation, art history, contemporary art theories and practices, creative writing, fine art, literature, publishing, textiles, theatre and performance, service design, and visual culture.

Our programmes

Research opportunities	p72
MA Creative Writing	p73
MA Graphic Design and Visualisation	p73

Research opportunities

PhD: 3 years full-time; 6 years part-time
MPhil: 2 years full-time; 4 years part-time

Entry requirements

An honours degree (2:1 or above) in a related subject.

Fees

Arts, English and Publishing: Band RA
 Drama: Band RB
 (see page 228 for details).

The School of the Arts, English and Drama is a thriving research community with a proven record for both scholarly and creative outputs of international excellence. Our research combines cutting-edge critical and creative practice by individual scholars and artists as well as an exciting range of national and international collaborative initiatives.

Supporting you

You will be appointed two supervisors to provide academic support throughout your research. Additionally, assistance and advice will be offered by the Director of Doctoral Programmes and the Research Student Administrator.

You will have access to the University's extensive training provision and to the School's bespoke seminar series tailored to the critical, creative and methodological needs of its doctoral researchers.

You will benefit from a range of opportunities to meet regularly with other doctoral researchers and academic staff by means of research forums, seminars and involvement in the School's research groups. We encourage doctoral researchers to present at conferences, publish and exhibit their work and contribute to our lively research community. You will be able to apply for funding for conference attendance and other dissemination activities relevant to your research.

You will have access to studio and shared study space and all facilities within the School and across the University, including library and IT services.

How to apply: Arts research proposal

Your proposal should be approximately 2,000 words and include a provisional title, the research question that forms the core of the enquiry and the scope of the topic. You should outline the methods, approach and theory to be adopted, the relationship to current research and literature in the field and a provisional timetable for completion. If you are practice-based, then you need to supply a portfolio of your work as a PDF document or web link with the application.

English, Drama and Publishing research proposal

Your proposal should be approximately 2,000 words and include a provisional title, the research questions that form the core of your enquiry, and the scope of the topic. You should outline the methods, approach and theory to be adopted and the relationship to current research and literature in the field. You should also include a set of chapter headings (with a brief outline of each chapter's likely content), a bibliography of the reading you consider relevant to your research (indicating the titles you have already consulted), and a provisional timetable. In the case of a proposal for a creative thesis, an account of the creative component, and the role that it will play in the overall research plan, is also necessary.

Colleagues within the School are happy to offer advice on draft proposals and at any stage during the application process. Please contact us at aed.research@lboro.ac.uk

Our areas of research

Whilst not exhaustive of the critical and creative activity in our School, the following constitute our main research groups.

- Animation Academy
- Arts in the Public Sphere
- Cultural Currents 1870-1930
- Digital Humanities
- Drawing and Visualisation (TRACEY)
- Early-Modern Culture
- Editing Aphra Behn in the Digital Age
- Feminism, Sexual Politics and the Arts (mini Centre for Doctoral Training, see p14)
- Gendered Lives
- Modern and Contemporary Literature and Culture
- Museums, Markets and Critical Heritage
- Politicised Practice
- Publishing
- Textile Design
- Theatre and Performance

For further information on these research areas, please visit lboro.ac.uk/pg2019/aed

Taught programmes

Creative Writing

MA

Full-time length: 1 year

Part-time length: 2 years

Entry requirements

An honours degree (2:1 or above) or equivalent overseas qualification in English, Drama or a related subject. Additional entry requirements apply. Please see website for more details.

Fees

Band 1 (see page 228 for details).

Programme overview

Our MA Creative Writing is taught by a team of writers, academic experts and special guests. You will pursue a syllabus that gives you the opportunity to write in a range of genres and forms, while choosing what to submit for feedback.

You will work on elements of fiction and poetry, and genres such as writing for TV and creative non-fiction, including travel writing and biography. You will have opportunities to take part in workshops and guest readings on campus, and take advantage of the School's connections with regional and national literature organisations.

It is a distinctive feature of our MA Creative Writing that we produce self-aware graduates who, as well as being confident and skillful writers, understand how their writing and skillset relate to the writing industries. As a result of our professional development module, they know how to submit their work for publication, how to apply for funding and how to network and use social media as writers. Many of our graduates go on to have poetry and fiction work published and find careers that value their creative thinking and knowledge of the literature sector.

Modules

Modules studied may include: Departures; Resources for Advanced Research; Perspectives; Diversions; Writers and the Writing Industries; Dissertation.

How you will be assessed

Assessment is by submission of pieces of writing of differing lengths, from 2,000-4,000 words, which may include a reflective element, and include presentations of your work and your professional plans. The final dissertation is 15,000 words.

How you will study

You will study through a range of tutorials, independent study, group work and workshops.

Who should study this programme?

Our MA Creative Writing is suitable for graduates who are looking to develop their skills in major genres of writing, including fiction, creative non-fiction and poetry, and their understanding of the writing industries.

Graphic Design and Visualisation

MA

Full-time length: 1 year

Part-time length: 2 years

Entry requirements

An honours degree (2:1 or above) or equivalent overseas qualification in an art and design discipline or closely related subject. Additional entry requirements apply. Please see website for more details.

Fees

Band 1 (see page 228 for details).

Programme overview

Our MA Graphic Design and Visualisation aims to develop a specialist approach to graphic design and visualisation through combining traditional and contemporary approaches in the field.

You will be taught in a progressive, research-intensive environment, and will gain a first hand understanding of the relationship between design and research by working alongside research and academic staff.

You will be given opportunities to develop a personalised visual language through visual thinking combined with traditional and contemporary media. Theory and practice are intertwined as you express your ideas through the production of written assignments and artefacts that are aligned with your specialist area of interest.

You will have full access to a range of outstanding learning and teaching facilities, including newly refurbished study areas, state-of-the-art audio-visual equipment, a theatre, music rooms and a variety of offices for seminars and small group activities. These inspiring spaces will enable you to explore numerous creative possibilities and produce work of an industry standard.

Modules

Modules studied may include: Design and Research; Exploring Materials Processes and Techniques; Final Project: Situating and Rehearsing; Research Methodologies: Art and Design; Final Project.

How you will be assessed

Assessment is continuous and based on an appraisal of practice, written material, related research, and professional and entrepreneurial skills in relation to the final project outcome(s).

How you will study

You will study through a range of seminars, lectures, tutorials, independent study, group work, practical sessions, field trips, supervision and workshops.

Who should study this programme?

Our MA Graphic Design and Visualisation is suitable for students looking to develop knowledge and understanding of graphic design and visualisation to an advanced degree level. It will help you to cultivate a process of conceiving, planning and making work using a range of visualisation skills.



Arts, English and Drama

Creative Writing lecturer made poet-in-residence

Dr Kerry Featherstone, Lecturer in English, has been made the first poet-in-residence at Bradgate Park, Leicestershire.

Dr Featherstone, who took up the role in 2017 as part of a new project based on creative inspiration at the park, leads workshops, poetry walks and readings of both his work and pieces written by visitors. The first of these four workshops explored some of the park's landscape and the approach of winter. The residency will also see poetry walks in the park and invitations to guests to discuss their take on the landscape.

"I know that Bradgate Park is a favourite place for lots of people in the region; I love going there as well. This is a chance to bring poetry to the park and to encourage people to get creative in their response to the natural world and their own memories", explains Dr Featherstone. "I really want the residency to give people the confidence to respond creatively to their memories of places and landscapes and to enjoy writing about them."

Dr Featherstone specialises in creative and contemporary travel writing, both in English and in French, including personal experiences of landscape. "Associating writing with a particular place can be a powerful tool for unlocking memory and creativity. I've written poetry about landscapes that are important to me, including many locations in the UK and France, and given conference papers about the techniques that I use to combine landscape, memory and heritage in my writing", says Dr Featherstone.

You can read about the residency at blog.lboro.ac.uk/poetinthepark

 lboro.ac.uk/pg2019/inspiringstories



Justin

MSc Economics and Finance

"Studying at Loughborough has improved my critical thinking skills and given me the confidence to research and find solutions that may go against conventional wisdom."



THE TIMES AND
SUNDAY TIMES 2018
TOP 10 IN THE UK
FOR BUSINESS, ECONOMICS,
FINANCE AND ACCOUNTING



DLHE 2016
96% OF POSTGRADUATE
STUDENTS IN WORK AND/
OR FURTHER STUDY
SIX MONTHS AFTER
GRADUATING



REF 2014
75% OF BUSINESS AND
MANAGEMENT RESEARCH
RATED 'WORLD-LEADING'
OR 'INTERNATIONALLY
RECOGNISED'

Business and Economics

The School of Business and Economics is committed to developing well-rounded, highly sought-after graduates, equipped to succeed in today's global economy.

Triple-accredited

Consistently ranked as a top 10 UK business school by national league tables, the School is also among a small number of business schools in the world to hold AACSB, EQUIS and AMBA accreditation. These rankings and accreditations internationally validate the quality of education offered, from teaching and research to student support and facilities.

Outstanding research culture

Integral to the School's philosophy is developing research of the highest level that both informs academia and is instrumental in helping shape and influence the wider world.

According to the latest Research Excellence Framework, 75% of the School's Business and Management research output is considered 'world-leading' or internationally relevant. The School's inspiring and supportive academic community enables students and staff to explore

the latest challenges confronting businesses and governments today.

Expert teaching

The School's experiences of working with over 400 global corporate partners ensure its academically challenging postgraduate programmes are underpinned by the latest best practice and research. Teaching is delivered by expert academic staff, many of whom have first hand experience in business, finance, management and government policy.

A rewarding experience

The School offers a truly diverse and international environment, enabling students to gain the skillset and knowledge required to achieve their future career ambitions. Optional modules enable students to specialise in the fields that interest them the most. Many taught programmes include practical projects, as well as guest lectures and workshops from industry partners. Postgraduate students can also access extra-curricular corporate masterclasses organised by the School. All of this contributes to a lively, supportive and enriching learning environment.

Our programmes

Research opportunities	p78	MSc Finance	p85
Full-Time MBA	p80	MSc Finance and Investment	p86
Executive MBA (EMBA)	p80	MSc Finance and Management	p86
including Sports Management pathway		MSc Human Resource Management	p87
Executive Education	p81	MSc Information Management and Business Technology	p87
MSc Banking and Finance	p81	MSc International Business	p88
MSc Business Analytics	p82	MSc International Management (London campus)	p207
MSc Business Psychology	p82	MSc Management	p88
MSc Corporate Finance	p83	MSc Marketing	p89
MSc Economics and Business Strategy	p83	MSc Work Psychology	p89
MSc Economics and Finance	p84	MSc Social Science Research (Business and Management Studies)	p90
MSc Economics and International Business	p84		
MSc Employment Relations and Human Resource Management	p85		



lboro.ac.uk/pg2019/sbe

Research opportunities

PhD: 3 years full-time; 6 years part-time
MPhil: 2 years full-time; 4 years part-time

Entry requirements

A master's qualification in a relevant subject with an average programme mark of 65% or above (or overseas equivalent) and a good honours degree in a relevant discipline (minimum 2:1). In exceptional cases, substantial professional work experience/qualifications may also be taken into consideration.

Fees

Band RA (see page 228 for details).

At the School of Business and Economics you have the opportunity to study towards a PhD or MPhil in Business and Management, Economics or Information Science. As a doctoral student you will join whichever discipline group best suits your research interests. Whether you are interested in microeconomics or consumer behaviour, or want to research international marketing strategies, the School of Business and Economics is well-placed to provide the right opportunities for you, in order to realise your ambitions.

Supporting you

- regular meetings with your supervisor(s) – a member of academic staff with appropriate expertise. The Director of Doctoral Programmes can provide additional guidance and pastoral support, as can other academic staff if appropriate.
- access to the newly refurbished School of Business and Economics dedicated PhD lounge, which consists of an open plan office, modern facilities and a relaxed social area
- training courses and seminars throughout your PhD study
- access to library and IT services, and funds to support conference travel and subsistence
- opportunities to develop skills in supporting undergraduate teaching as tutorial or laboratory assistants.

How to apply

For self-funded projects or those funded by third-party sponsors, your application should include an extensive outline of your proposed topic of research. This should include a statement about why you have chosen the topic; aims, objectives and methodology; plus references to texts used.

Our areas of research

Research Centres represent the key areas of our research strength, Discipline Groups are the fundamental areas of teaching and research in which individual staff members are grouped, and Research Interest Groups are emerging areas of research.

Research Centres

The School has developed four collaborative Research Centres to further enhance its international reputation. These Centres are key components of the School's research agenda and aim to be instrumental in shaping policy and practice across both the public and private sector.

Centre for Information Management

The Centre's main purpose is to undertake internationally recognised research for the benefit of the individual, organisations, government and society. It aims to evidence the significance and value of information, challenge thinking and practice around information management, and improve performance through analysis, interpretation and judgement of information.

Centre for Professional Work and Society

The Centre conducts independent research on issues affecting work, professions and society. Members of the Centre deliver high-quality research that contributes to national and international debates around the changing landscape of contemporary professional work.

Centre for Service Management

The Centre conducts multi-interdisciplinary research relevant to the private, public and third sector service organisations, providing new knowledge to inform academics and educate managers through the exploration of theory and practice of service management.

Centre for Productivity and Performance

This Centre focuses on research in different fields of productivity, efficiency and performance measurement, and related areas, such as industrial organisation and decision and risk analysis. Its research portfolio aims to assist decision and policy makers in evaluating and improving the performance of firms and public sector bodies.

Discipline Groups

Research staff and students are all placed within one of the School's seven Discipline Groups.

Accounting and Financial Management

This group's research interests span a broad spectrum of methodologies ranging from social science-orientated techniques to applied financial economics. The key objective of group members is to produce research that is rigorous but also relevant to contemporary accounting and finance issues/debates. Many group members possess professional as well as academic qualifications. A number of group members serve/have served on prestigious academic and practitioner boards, as well as holding editorial positions in key academic journals in their respective fields.

Economics

The Economics Discipline Group undertakes rigorous and relevant applied research in microeconomics, macroeconomics and econometrics, with a view to applying the powerful and flexible tools of economics to both understand and inform the economic decisions of individuals, firms, governments and other institutions. The group's research interests and expertise span five key areas: applied econometrics and productivity analysis; financial economics and banking; monetary economics and development; international economics and trade; and industrial economics.

Human Resource Management and Organisational Behaviour

An interdisciplinary social science teaching and research group, it brings together academics interested in a broad range of 'people management' issues. Psychology and sociology are major disciplinary influences but historical and geographical approaches may also be taken. The group conducts research in the areas of organisation studies, work psychology and employment relations. Output ranges from traditional academic scholarship to work with a significant impact on public policy and management.

Information Management

The research carried out by this group is led by the Centre for Information Management. The Centre undertakes world-leading research on the effective management of information and knowledge assets, investigating big data, mobile technologies, email, social networks and social media, open and linked data, knowledge management in the voluntary sector and much more.

International Business, Strategy and Innovation

This group comprises teachers and researchers whose work draws on multiple disciplines including economics, sociology, psychology, anthropology and political science. The group is committed to the advancement of world-class management scholarship and to the development of ideas that will help managers make better sense of some of the most complex problems of globalisation and the technology revolution.

Management Science and Operations Management

This group is multidisciplinary, bringing together expertise in operations, systems and decision making. The group is committed to improving management practice by designing and implementing analytic approaches that help tackle routine, strategic or policy problems. The approaches are typically supported by models that can often be represented mathematically or visually and built using specialist software.

Marketing and Retailing

This group is a team of dynamic, research-oriented individuals with expertise in a number of key areas within marketing and retail. The group is extremely successful in achieving its primary aim of advancing knowledge and thinking in these disciplines through high quality, basic and applied research.

Research Interest Groups

Research Interest Groups are individual clusters of faculty, researchers and PhD students working on a common research theme. These groups evolve over time and represent emerging areas of research strength within the School:

- Behavioural Decision Sciences
- Business Education and Economics
- Emergency Management
- Firms in the Global Economy
- Knowledge Management
- Logistics and Transportation Analytics
- Management Accounting
- Money and Developing Economies
- Simulation Practice
- Trade Agreements, Negotiation Strategy, Investment and Technology (TRANSIT)
- Town Centres

Taught programmes

Full-Time MBA

MBA

Full-time length: 1 year or 2 years with internship

Part-time length: see Executive MBA listing

Entry requirements

Minimum of three years' management/professional experience plus a 2:2 honours degree (or equivalent overseas qualification) or membership of an approved Chartered Institute or a Diploma in Management Studies. Please see website for full details.

Fees

MBA (see page 228 for details).

Programme overview

Our Full-Time MBA will equip you to become an elite performer in business, accelerate your career and enable you to maximise business performance in a global environment.

You will learn to manage complex challenges, including exporting to new markets, getting the most out of your team, devising creative solutions for real business challenges and leading innovative change to capitalise on opportunities. Our internship route (2 years) offers the opportunity to develop consultancy experience.

Modules

Compulsory modules may include: Business Economics; Accounting and Performance Management; Management of Human Resources; Business Analytics; Leading Strategic Change; Business Administration Project and Research Methods or Work-Based Learning Project and Research Methods; Corporate Finance; Marketing; Problem Solving for Leaders; Contemporary Perspectives on Leadership; Managing Innovation; Professional Development Sessions.

Optional modules may include: Information Systems; Strategy and Management; International Management; Managing Corporate Reputation; Project Management; Operations Management; International Summer School (additional fees may apply); Global Outsourcing and Offshoring of Services.

Those doing a 45-52 week Professional Internship in Year 2 will continue the Work-Based Learning Project and Research Methods from Year 1.

How you will be assessed

You will be assessed by a combination of exams and group and individual coursework.

How you will study

You will study through seminars, tutorials, independent study, group work, field trips and workshops.

Who should study this programme?

This internationally recognised MBA is ideal for professionals with managerial or leadership ambitions.

Executive MBA (EMBA)

MBA

Full-time length: see Full-Time MBA listing

Part-time length: up to 4 years (typically 3 years)

Entry requirements

Minimum of five years' management/professional experience plus a 2:2 honours degree (or equivalent overseas qualification) or membership of an approved Chartered Institute or a Diploma in Management Studies. Please see website for full details.

Fees

MBA (see page 228 for details). Level 7 Apprenticeship route available. Please see website for more details.

Programme overview

Our Executive MBA equips experienced professionals with the skills to take their career to the next level. We guide you through a transformational experience that enables you to fulfil your potential.

You will learn to manage complex challenges, including exporting to new markets, getting the most out of your team, devising creative solutions for real business challenges and leading innovative change to capitalise on opportunities. You will learn alongside experienced high achievers from a range of sectors and share some modules with our internationally diverse Full-Time MBA.

A Sports Management Pathway exists for those working in sports organisations, NGOs and sports businesses.

Modules

Compulsory modules may include: Personal Effectiveness; Accounting, Financial Management and Economics; Managing People; Strategic Marketing; Business Analytics; Problem Solving for Leaders; Managing Innovation; Operations Management; Leading the Organisation: Leading People; Leading the Organisation: Strategy, Governance and Markets; Leading Strategic Change; Work-Based Learning Project and Research Methods/Sports Management Work-Based Learning Project.

Optional modules may include: Global Outsourcing and Offshoring of Services; Corporate Finance; Managing Corporate Reputation; Managing the Global Firm; Information Systems, Strategy and Management; Project Management; Managing Sports Organisations, European Summer School in Advanced Management (ESSAM); International Intensive Study Period (additional fees may apply for this module and for ESSAM).

How you will be assessed

You will be assessed by a combination of exams and group and individual coursework.

How you will study

You will study through face-to-face block study and online learning.

Who should study this programme?

This programme is suited to ambitious professionals looking for a transformational Executive MBA. A Level 7 Apprenticeship route is also available.

Executive Education

The School of Business and Economics offers professionals a broad range of accredited part-time programmes at certificate, diploma and master's degree level. A MSc Strategic Leadership Level 7 Apprenticeship route is also now available.

The School also offers specialist short courses and tailored management development programmes for organisations, which can be delivered in-house or on campus. Find out more at lboro.ac.uk/pg2019/exec

Executive Education

T: +44 (0)1509 223147

E: exec@lboro.ac.uk

Banking and Finance

MSc

Full-time length: 1 year

Part-time length: not available

Entry requirements

An honours degree (2:1 or above) or equivalent overseas qualification in economics, finance, business, management, management science or operations research. Applicants from related disciplines may also be considered provided that your degree includes at least introductory modules in economics and an introduction to quantitative subjects such as calculus and statistics. Please see website for full details.

Fees

Band 4 (see page 228 for details).

Programme overview

Our MSc Banking and Finance will equip you with the practical skills to understand and model banking and financial markets, using the toolkit of economics.

The programme will enable you to understand how the actions of governments, firms, households and financial intermediaries affect national and global financial assets such as bond, equities and foreign exchange markets. In addition, you will be exposed to the theory and practice of bank credit and lending, as well as financial institution risk management.

Modules

Compulsory modules studied may include: Financial Economics; The Financial System; Introduction to Data Analysis; Research Communication for Economists; Applied Financial Econometrics; Banking and Financial Markets; Banking and Finance in Practice; Economic Research Project.

Optional modules may include: Economics of Firms and Markets; Macroeconomic Policy and Financial Markets; Risk Management and Derivatives; Corporate Finance; International Money and Finance.

How you will be assessed

You will be assessed by a combination of group and individual coursework, as well as exams.

How you will study

You will study through a range of lectures, seminars, group work, feedback forums, one-to-one sessions with programme tutors and workshops.

Who should study this programme?

Our MSc Banking and Finance programme is ideal for those who wish to pursue a career in banking, financial services, international financial management or central banking and financial regulation. It will equip you with the knowledge and skills to apply the toolkit of economics to model the performance of banking and financial markets, and the implications of this for the sector and the wider economy.

Business Analytics

MSc

Full-time length: 1 year

Part-time length: not available

Entry requirements

An honours degree (2:1 or above) or equivalent overseas qualification. Strong quantitative ability is required. Degrees in engineering, mathematics, physics, economics, and business and management are particularly welcomed. Those without a first degree but with substantial work experience may be considered. Please see website for full details.

Fees

Band 4 (see page 228 for details).

Programme overview

Our MSc Business Analytics equips you with the rigorous modelling and consulting skills needed to understand, manage and communicate useful insights from big data.

The programme will enable you to consult with organisations and governments to help them make informed strategic business or policy decisions. You will be taught by internationally recognised management scientists who work with business, government and non-profit organisations.

Our industrial collaborators (including TUI, npower, BT, IBM, SAS, British Airways, and UK Government departments) help ensure our modules are both practically relevant and academically robust, delivering workshops and guest talks.

The supervised consulting or research project gives you the opportunity to apply powerful tools such as data mining, forecasting, optimisation, simulation and decision analysis to a particular area of business or policy.

Modules

Modules studied may include: Skills for Analytics Projects; Discovery Analytics; Decision Analytics; Managing Big Data; Customer Analytics; Operations Analytics; Policy and Strategy Analytics; Process and Programming for Analytics; Analytics Project.

How you will be assessed

You will be assessed by coursework and/or exams.

How you will study

You will study through a range of seminars, lectures, tutorials, independent study, group work, practical sessions, supervision and workshops.

Who should study this programme?

Our MSc Business Analytics programme will enable you to communicate insights from big data, for careers as management consultants, business analysts, policy analysts, marketing researchers, operations researchers and data scientists.

Business Psychology

MSc

Full-time length: 1 year

Part-time length: 2-4 years

Entry requirements

An honours degree (2:1 or above) or equivalent overseas qualification with a substantial business, management or cognate social science component, and evidence of numerical proficiency demonstrated through the study of mathematical or statistical subjects. Applicants with a 2:2 or from a different discipline may be considered with relevant work experience. See website for full details.

Fees

Band 1 (see page 228 for details).

Programme overview

Our MSc Business Psychology programme is accredited by the Association for Business Psychology.

Taught by experienced researchers and practitioners, you will learn in-depth how to apply the science of psychology to important business issues, including change management, employee selection and development, leadership, work motivation, well-being and performance.

You will develop skills in critical thinking, consultancy and working with organisational stakeholders, enabling you to operate effectively at all levels within organisations. You can complete a research project that allows you to apply this knowledge to an organisational issue or instead conduct a focused literature review that examines how psychological research and theory may be applied to a contemporary business problem.

Modules

Modules studied may include: Gathering and Using Evidence in Work Psychology; Leadership and Performance Management; Employee Engagement, Motivation and Voice; Wellbeing and Work; Work Design, Organisation Change and Development; Psychological Assessment in Organisations; Career Development; Learning, Development and Knowledge Management; Empirical Research Project in Work Psychology or Dissertation in Business Psychology.

How you will be assessed

You will be assessed through group and individual coursework.

How you will study

You will study through a range of seminars, lectures, tutorials, independent study, group work and supervision.

Who should study this programme?

Our MSc Business Psychology is designed for those wanting to develop a career in business psychology, human resource management or as a business consultant.

Corporate Finance

MSc

Full-time length: 1 year

Part-time length: not available

Entry requirements

An honours degree (2:1 or above) or equivalent overseas qualification in business, accounting, maths, physics, engineering, computing, economics or a minor in finance. 2:1 grades are required in quantitative modules. Please see website for full details.

Fees

Band 4 (see page 228 for details).

Programme overview

Our MSc Corporate Finance is an applied master's programme that will enable you to work in corporate finance roles, giving you the tools to evaluate corporate finance issues and to improve financial management practice.

You will be taught by internationally renowned academics who are experts in research and hold advisory roles on government policy and in industry. Research strengths include corporate finance, accounting, financial markets and corporate governance. The programme shares a common taught first semester with MSc Finance and MSc Finance and Investment, before specialising in Corporate Finance in semesters two and three.

The programme is accredited by the Chartered Institute of Management Accountants (CIMA) and offers at least six exemptions from CIMA's professional examinations.

Modules

Compulsory modules may include: Principles of Finance; Financial Markets and Institutions; Financial Reporting and Company Performance; Methods of Financial Data Analysis; Corporate Finance; International Financial Management; Financial Statement and Business Valuation; Business Communication for Finance; Corporate Governance and Responsibility; Advanced Corporate Finance; Corporate Financial Analysis.

Optional modules may include: Global Financial Markets and the Financial Crisis; Business Economics; Portfolio Management; Small Business and Entrepreneurship.

How you will be assessed

You will be assessed by exams and skills-based coursework.

How you will study

You will study through a range of seminars, lectures, tutorials, independent study, group work, practical sessions, supervision and workshops.

Who should study this programme?

Our MSc Corporate Finance is ideal for graduates seeking a career in the treasury department of a large company, the corporate finance team of an investment bank, a management consultancy role with a finance focus or an advisory role with an accounting or professional services company.

Economics and Business Strategy

MSc

Full-time length: 1 year

Part-time length: not available

Entry requirements

An honours degree (2:1 or above) or equivalent overseas qualification in economics, finance, business, management, management science, operations research, or related disciplines. Applicants from other disciplines will also be considered provided that your degree includes at least introductory modules in economics and an introduction to quantitative subjects such as calculus and statistics. Please see website for full details.

Fees

Band 2 (see page 228 for details).

Programme overview

Our MSc Economics and Business Strategy will provide you with sought after skills in economics and strategy, enabling you to build a successful and rewarding career both in business and policymaking. It will equip you with the tools of economics and strategy to influence business performance and to improve strategic thinking and decision-making in a competitive business environment.

You will be taught by academics with research expertise in competition, regulation and strategy, and in key industries such as banking, finance, energy, water and pharmaceuticals. You will learn how to apply insights from economic theory to address real world problems and open up careers in business, consulting, government and international organisations or as an academic economist.

Modules

Compulsory modules may include: Economics of Firms and Markets; Industrial Organisation and Strategy; Economic Data Analysis; Economics of Corporate Strategy; Applied Data Analysis for Business Strategy; Policy and Strategy Analytics; Economics and Business Strategy in Practice; Economic Research Project.

Optional modules may include: Macroeconomic Policy and Financial Markets; Financial Economics; Corporate Finance; Economics of International Business; Leading Analytics Initiatives.

How you will be assessed

You will be assessed by a combination of group and individual coursework, as well as exams.

How you will study

You will study through a range of seminars, lectures, tutorials, independent study, group work and workshops.

Who should study this programme?

Our MSc Economics and Business Strategy is ideal for graduates interested in careers in business, consulting, government and international organisations or as an academic economist.

Economics and Finance

MSc

Full-time length: 1 year

Part-time length: not available

Entry requirements

An honours degree (2:1 or above) or equivalent overseas qualification in economics, finance, business, management, management science, operations research or related subjects. Applicants from other disciplines will also be considered provided that your degree includes at least introductory modules in economics and an introduction to quantitative subjects such as calculus and statistics. Please see website for full details.

Fees

Band 2 (see page 228 for details).

Programme overview

Our MSc Economics and Finance will provide you with the capability to apply modern macroeconomic, microeconomic and econometric methods in order to assess and shape organisational, government and financial policy.

You will develop the key skills of a professional economist for careers in banking, government (central banking and treasury), international business, consultancy and academia.

You will study economic theory and policy, the actions of governments, firms, households and intermediaries in national and global money, bond and foreign exchange markets.

You will examine both the microeconomic impacts for firms and the macroeconomic implications for the global economy and will develop advanced theoretical and quantitative skills, as well as valuable transferable skills.

Modules

Core modules may include: Financial Economics; Economics of Firms and Markets; Macroeconomic Policy and Financial Markets; Introduction to Data Analysis; Applied Financial Econometrics; Risk Management and Derivatives; Corporate Finance; Financial Economics in Practice; Economic Research Project.

Optional modules may include: Banking and Financial Markets; International Money and Finance.

How you will be assessed

You will be assessed by coursework and exams.

How you will study

You will study through lectures, seminars, group work, feedback forums, one-to-one sessions with programme tutors and workshops.

Who should study this programme?

Our MSc Economics and Finance is ideal for graduates interested in careers in banking, finance government, international organisations, business, management consultancy and economic consultancy.

Economics and International Business

MSc

Full-time length: 1 year

Part-time length: not available

Entry requirements

An honours degree (2:1 or above) or equivalent overseas qualification in economics, finance, business, management, management science, operations research or a related subject. Applicants from other disciplines may also be considered. Please see website for more details.

Fees

Band 2 (see page 228 for details).

Programme overview

Our MSc Economics and International Business will equip you with the key skills required for a successful career in businesses and organisations operating in the global economy. You will develop the practical skills and techniques to assess and implement business strategies in response to the problems affecting firms and markets in a highly competitive international business environment.

You will be taught by experienced economists, international business researchers, and practitioners who have research expertise in key areas of international trade and business, such as multinational investment decisions, international mergers, international technical collaborations, environmental policies and agreements.

Modules

Compulsory modules may include: Economics of Firms and Markets; Industrial Organisation and Strategy; International Business Environment; Research Communication for Economists; Economics of International Business; Economics and International Business in Practice; Global Strategic Management; Economic Research Project.

Optional modules may include: Introduction to Data Analysis; Global Outsourcing and Offshoring of Services; Marketing in the Organisation; Applied Data Analysis for Business Strategy; Economics of Corporate Strategy; Logistics and Supply Chain Management; International Marketing.

How you will be assessed

Modules are assessed through a combination of group and individual coursework, as well as exams.

How you will study

You will study through a range of lectures, tutorials, independent study and group work.

Who should study this programme?

Our MSc Economics and International Business is ideal for graduates interested in careers in international business, management and strategy consulting, and industry.

Employment Relations and Human Resource Management

MSc

Full-time length: 1 year

Part-time length: not available

Entry requirements

An honours degree (2:1 or above) or equivalent overseas qualification with a substantial business, management or cognate social science component. Applicants who do not meet these requirements may also be considered with relevant work experience. Please see website for more details.

Fees

Band 2 (see page 228 for details).

Programme overview

Our MSc Employment Relations and Human Resource Management is accredited by the Chartered Institute for Personnel and Development (CIPD), the professional body for Human Resources, Employment Relations and related professions in the UK. It is ideal for those interested in developing a career in employment relations, labour relations or related fields.

The programme offers you the opportunity to explore a range of aspects relating to human resources and employment relations. You will gain an insight and understanding into the management of the employment relationship, including the relevant employment regulations that organisations work within.

Subject to appropriate module choices and professional membership, graduates will meet the knowledge requirements for Chartered Membership of the CIPD.

Modules

Compulsory modules may include: Human Resource Management Theory and Practice; Developing Skills for Business Leadership; Employment Relations; Strategic Human Resource Management; Research Methods for Human Resource Management; Employment Law; Employment Relations Dissertation.

Optional modules may include: Leadership and Performance Management; Work Design, Organisational Change and Development; Career Development; Learning, Development and Knowledge Management.

How you will be assessed

You will be assessed through exams, and individual and group coursework, including presentations.

How you will study

You will study through a range of seminars, lectures, tutorials, independent study, group work and workshops.

Who should study this programme?

Our MSc Employment Relations and Human Resource Management is ideal for those looking to study a CIPD-accredited MSc to prepare them for a career in employment relations, labour relations or related fields.

Finance

MSc

Full-time length: 1 year

Part-time length: not available

Entry requirements

An honours degree (2:1 or above) or equivalent overseas qualification in business, accounting, maths, physics, engineering, computing, economics or a minor in finance. 2:1 grades are required in quantitative modules. Please see website for more details.

Fees

Band 4 (see page 228 for details).

Programme overview

Our MSc Finance is an applied, broad-based programme that will equip you with the knowledge and skills to work in a wide range of finance roles. You will learn both how to evaluate financial issues and to improve the practice of finance. You will gain an understanding of corporate finance and investment topics, with the option to choose modules specialising in international finance.

Our Trading Room, with Thomson Reuters Eikon financial trading software, enables you to practically apply concepts you have learned during the programme.

This master's is accredited by the Chartered Institute of Management Accountants (CIMA) and offers at least six exemptions from CIMA's professional examinations.

Modules

Compulsory modules may include: Principles of Finance; Financial Markets and Institutions; Financial Reporting and Company Performance; Methods for Financial Data Analysis; Corporate Finance; Portfolio Management; Business Communication for Finance; plus three from Advanced Corporate Finance; Corporate Financial Analysis; Financial Trading; Global Investment Analysis; Corporate Governance and Responsibility; Financial Market Project.

Optional modules may include: International Financial Management; Financial Statements and Business Valuation; Derivatives and Risk Management; Global Financial Markets and the Financial Crisis; Business Economics; Small Business and Entrepreneurship.

How you will be assessed

You will be assessed by coursework and exams.

How you will study

You will study through a range of seminars, lectures, tutorials, independent study, group work, practical sessions, supervision and workshops.

Who should study this programme?

Our MSc Finance is ideal for graduates looking for an applied, broad-based master's degree that opens up a wide range of finance careers.

Finance and Investment

MSc

Full-time length: 1 year

Part-time length: not available

Entry requirements

An honours degree (2:1 or above) or equivalent overseas qualification in business, accounting, maths, physics, engineering, computing, economics or a minor in finance. 2:1 grades are required in quantitative modules. Please see website for more details.

Fees

Band 4 (see page 228 for details).

Programme overview

Our MSc Finance and Investment is designed to fast-track the careers of graduates from non-finance backgrounds who want to pursue a career in financial management for commercial and non-commercial organisations.

The programme will provide you with the practical tools to evaluate issues facing financial market participants and to improve the practice of investment and risk management. It focuses on both the trading and portfolio management sides of finance and has a substantial focus on investment within core modules. Our Trading Room, with Thomson Reuters Eikon financial trading software, enables you to practically apply concepts you have learned during the programme.

This master's is accredited by the Chartered Institute of Management Accountants (CIMA) and offers at least six exemptions from CIMA's professional examinations.

Modules

Compulsory modules may include: Principles of Finance; Financial Markets and Intuitions; Financial Reporting and Company Performance; Methods for Financial Data Analysis; Portfolio Management; Derivatives and Risk Management; Financial Statements and Business Valuation; Business Communication for Finance; plus three from Financial Trading; Global Investment Analysis; Corporate Governance and Responsibility; Financial Market Project.

Optional modules may include: Global Financial Markets and the Financial Crisis; Corporate Finance; International Financial Management; Applied Financial Econometrics; Business Economics.

How you will be assessed

You will be assessed by exams and coursework.

How you will study

You will study through a range of seminars, lectures, tutorials, independent study, group work, practical sessions, supervision and workshops.

Who should study this programme?

Our MSc Finance and Investment is ideal for non-finance graduates with ambitions to work in investment management, investment banking and related sectors. You learn about trading, portfolio management and global investment analysis and have exposure to key financial trading software throughout the course.

Finance and Management

MSc

Full-time length: 1 year

Part-time length: not available

Entry requirements

An honours degree (good 2:2 of 55% or above) or equivalent overseas qualification in a non-finance discipline. Additional requirements apply. Please see website for more details.

Fees

Band 4 (see page 228 for details).

Programme overview

Our MSc Finance and Management programme is designed to fast-track the careers of graduates from non-finance backgrounds who want to pursue a career in financial management for commercial and non-commercial organisations.

You will benefit from the expertise of our renowned research-active academics. You will develop an understanding of business and management by studying across a range of areas, including marketing, human resources, accounting, strategic management and, in particular, finance. Your financial knowledge and skills will be further developed within accounting and finance modules.

The programme is accredited by the Chartered Institute of Management Accountants (CIMA) and offers at least six exemptions from CIMA's professional examinations.

Modules

Compulsory modules may include: Accounting and Performance Measurement; Foundations of Corporate Finance; Human Resource Management; Marketing in the Organisation; Personal Development for Study and Employability; Corporate and Wholesale Finance; Financial Theory and Policy; International Financial Management; Current Issues in Finance; Global Strategic Management; plus one of Financial Derivatives; Corporate Governance and Responsibility.

Optional modules may include: Business Economics; Business Environment Analysis; Business Forecasting; Services and Retail Management; Small Business and Entrepreneurship.

How you will be assessed

You will be assessed by coursework and exams.

How you will study

You will study through a range of seminars, lectures, tutorials, independent study, group work, practical sessions, supervision and workshops.

Who should study this programme?

Our MSc Finance and Management is ideal for graduates with a non-finance background who are interested in developing key business, finance and management competencies to pursue a career in financial management in commercial and non-commercial organisations.

Human Resource Management

MSc

Full-time length: 1 year

Part-time length: not available

Entry requirements

An honours degree (2:1 or above) or equivalent overseas qualification with a substantial business, management or cognate social science component. Applicants with a 2:2 or from a different discipline may be considered with relevant work experience. Please see website for more details.

Fees

Band 2 (see page 228 for details).

Programme overview

Our MSc Human Resource Management is accredited by the Chartered Institute for Personnel and Development (CIPD), the professional body for Human Resources, Employment Relations and related professions in the UK. It is ideal for those interested in developing a career in human resource management, personnel or allied fields of management.

Subject to appropriate option choices and professional membership, graduates will meet the knowledge requirements for Chartered Membership of the CIPD.

The programme is taught by academics with both a strong track record in human resource management related research and practitioner HR experience. It focuses on developing critical thinking and analytical skills alongside more practical skills required for a career in people management.

Modules

Compulsory modules may include: Human Resource Management: Theory and Practice; Developing Skills for Business Leadership; Strategic Human Resource Management; Research Methods for Human Resource Management; Human Resource Management Dissertation.

Optional modules may include: Employment Relations; Leadership and Performance Management; Work Design, Organisational Change and Development; Employment Law; Career Development; Learning, Development and Knowledge Management.

How you will be assessed

You will be assessed by exams and individual and group coursework assignments, including presentations.

How you will study

You will study through a range of seminars, lectures, tutorials, group work and workshops.

Who should study this programme?

Our MSc Human Resource Management is ideal for graduates looking to study a CIPD-accredited MSc to prepare them for a career in human resource management, personnel or allied fields of management.

Information Management and Business Technology

MSc

Full-time length: 1 year

Part-time length: 2-4 years

Entry requirements

An honours degree (good 2:2 of 55% or above) or equivalent overseas qualification, preferably in a business or information technology-related subject. Please see website for more details.

Fees

Band 1 (see page 228 for details).

Programme overview

Our MSc Information Management and Business Technology has been designed with partners from industry to produce graduates who understand the professional, managerial and technical dimensions of information management and business technology.

The programme will enable you to develop key skills that employers value, including managing business relationships, IT systems, data science projects and information architecture to name a few. It is designed to develop you into a 'hybrid' manager who is able to bridge the gap between technical and managerial perspectives and who is equipped with the technical, professional and management knowledge and skills needed by employers.

Teaching is informed by the latest commercial best practice and academic research. You will benefit from being taught by information management experts and have guest lecturers from industry and not-for-profit organisations.

Modules

Modules studied may include: Business Relationship Management; IT Services Management; Collaborative Working with Technology; Information Architecture; Knowledge Management Strategies; Data Science; Business Models and New Technologies; Leadership and Project Management; Dissertation.

How you will be assessed

You will be assessed by group and individual coursework.

How you will study

You will be study through lectures, seminars, group work, feedback forums, e-learning, one-to-one sessions with tutors and workshops.

Who should study this programme?

Our MSc Information Management and Business Technology is ideal for graduates who would like a career in IT service management, business and media analytics, big data and competitive intelligence. It is open to those who are new to the subject, as well as those who have already gained a grounding in the basics of IT or management subjects.

International Business

MSc

Full-time length: 1 year

Part-time length: not available

Entry requirements

An honours degree (good 2:2 of 55% or above) or equivalent overseas qualification. Please see website for more details.

Fees

Band 4 (see page 228 for details).

Programme overview

Our MSc International Business is designed to equip you to work effectively across different national contexts in a range of business and management roles.

You will develop an understanding of cross-cultural differences, intercultural communication and leadership, internationally distributed collaborations, international human resource management, and international strategic decision-making. You will develop practical knowledge of the global business environment, international business negotiations, global sourcing models, international supply chains, global social entrepreneurship and international innovations.

You will benefit from a study abroad semester or a competitive international virtual team exercise.

Modules

Compulsory modules may include: International Business Environment; International and Cross-Cultural Management; Innovation and Entrepreneurship; Global Outsourcing and Offshoring of Services; Personal Development for Study and Employability; Global Strategic Management; International Company Project.

You may then choose to either study abroad for a semester or complete compulsory modules in: Business Environment Analysis; International Business Negotiations; Personal Development for Study and Employability; plus two optional modules from: X-Culture Project; Global Social Entrepreneurship and CSR; International Entrepreneurship and Post-Conflict Environments; Logistics and Supply Chain Management; Enterprise Resource Planning; Digital Marketing and Social Media.

How you will be assessed

You will be assessed by coursework, presentations and exams.

How you will study

You will study through a range of seminars, lectures, tutorials, independent study, group work, practical sessions and supervision.

Who should study this programme?

Our MSc International Business opens up careers in business analysis, marketing, international business negotiations, international trading, management consultancy and international business operations.

Management

MSc

Full-time length: 1 year

Part-time length: not available

Entry requirements

An honours degree (good 2:2 of 55% or above) or equivalent overseas qualification in a non-business discipline, although those with a business degree will be considered. Please see website for more details.

Fees

Band 4 (see page 228 for details).

Programme overview

Our MSc Management is designed to create the next generation of outstanding business managers and leaders.

Successful modern organisations depend upon managers with a broad business acumen who can make effective and timely decisions and who are capable of handling and analysing large volumes of information.

Taught by leading experts who bring the latest research developments into the classroom, this programme will equip you with highly sought-after business and management skills and knowledge. You will learn the fundamentals of managing people and organisations and the wide range of optional modules gives you the flexibility to tailor the programme to suit your individual career aspirations.

Modules

Compulsory modules may include: Human Resource Management; Accounting and Financial Management; Marketing in the Organisation; Operations Management; Personal Development for Study and Employability; Information Systems and Management; Management Analysis; Global Strategic Management.

Optional modules may include: Business Environment Analysis; International Marketing; Small Business and Entrepreneurship; Business Forecasting; Work Psychology; Enterprise Resource Planning; Logistics and Supply Chain Management; Brand Management; Marketing Communications.

How you will be assessed

You will be assessed by exams and coursework.

How you will study

You will study through a range of seminars, lectures, tutorials, independent study, group work, practical sessions, supervision and workshops.

Who should study this programme?

Our MSc Management will prepare you for a wide range of careers including management, consultancy, entrepreneurship or as a functional specialist.

Marketing

MSc

Full-time length: 1 year

Part-time length: not available

Entry requirements

An honours degree (good 2:2 of 55% or above) or equivalent overseas qualification in a non-business discipline, although those with a business degree will be considered. Please see website for more details.

Fees

Band 4 (see page 228 for details).

Programme overview

Our MSc Marketing will equip you with the marketing knowledge and analytical skills required in commercial and non-commercial organisations.

The programme will give you an understanding of effective strategic marketing management in a global marketplace, the techniques used in conducting and analysing market research, and the marketing mix in an international context. You will also benefit from a masterclass with a prominent marketing practitioner.

There is also the opportunity to study towards the Chartered Institute of Marketing's Level 6 Diploma in Professional Marketing. This is optional and separate to the master's degree. The programme involves an additional fee and is taught by our training partner TMLA, an Accredited Study Centre for the Chartered Institute of Marketing. Loughborough is part of the CIM Graduate Gateway, meaning students will be exempt from taking the exam and will only need to submit two written assignments by the end of the programme.

Modules

Compulsory modules may include: Human Resource Management; Market Research Methods; Marketing in the Organisation; Innovation and Entrepreneurship; Personal Development for Study and Employability; Digital Marketing and Social Media; Making Marketing Work; Strategic Marketing Solutions; Global Strategic Management.

Optional modules may include: International Marketing; Services and Retail Management; Logistics and Supply Chain Management; Business Environment Analysis; Brand Management; Marketing Communications.

How you will be assessed

You will be assessed by exams and coursework.

How you will study

You will study through a range of seminars, lectures, tutorials, independent study, group work, practical sessions, supervision and workshops.

Who should study this programme?

Our MSc Marketing is ideal for those interested in careers in marketing and management. It also offers the opportunity to graduate with the Chartered Institute of Marketing's (CIM) Diploma in Professional Marketing.

Work Psychology

MSc

Full-time length: 1 year

Part-time length: 2-4 years

Entry requirements

A British Psychological Society (BPS) accredited honours degree (2:1 or above) in Psychology or equivalent overseas qualification, plus evidence of numerical proficiency. Applicants with a 2:2 and relevant work experience may be considered. Please see website for more details.

Fees

Band 1 (see page 228 for details).

Programme overview

Our MSc Work Psychology is accredited by the BPS and is only available to students who currently hold a BPS-accredited undergraduate degree in Psychology.

It is especially suited to students who wish to develop a career as an occupational psychologist – completion of the programme fulfils the BPS stage 1 requirements for those wishing to go on to eventually become a HCPC-registered Occupational Psychologist. It also opens up careers in personnel, HR and management or as a business consultant (eg selection and assessment, and change management).

You will receive in-depth training by experienced researchers and practitioners to enable you to apply the science of psychology to a wide range of organisational settings to influence important business decisions.

Modules

Modules studied may include: Gathering and using Evidence in Work Psychology; Leadership and Performance Management; Employee Engagement, Motivation and Voice; Wellbeing and Work; Work Design, Organisational Change and Development; Psychological Assessment in Organisations; Career Development; Learning, Development and Knowledge Management; Empirical Research Project in Work Psychology.

How you will be assessed

You will be assessed through group and individual coursework.

How you will study

You will study through a range of seminars, lectures, tutorials, independent study, group work and supervision.

Who should study this programme?

Our MSc Work Psychology is ideal for graduates looking to study a BPS-accredited master's to prepare them for a career as an occupational psychologist or a related career in human resource management, personnel or business consultancy. It is specifically designed for those with a BPS-accredited undergraduate degree in Psychology.

Social Science Research (Business and Management Studies)

MSc

Full-time length: 1 year

Part-time length: 2 years

Entry requirements

An honours degree (2:1 or above) or equivalent overseas qualification in a wide range of subjects. Please see website for more details.

Fees

Band 1 (see page 228 for details).

Programme overview

Our MSc Social Science Research (Business and Management Studies) will provide you with a comprehensive overview of the key methodological and philosophical debates that shape the social sciences and equip you with the specialised research tools and skills for business and management.

This master's has a strong emphasis on applying qualitative and quantitative skills to tackle research problems, as well as a focus on developing critical thinking skills. It provides a robust foundation for more advanced academic study or research, whilst sharpening the applied research skills of current or aspiring business and management practitioners.

The programme is accredited by the Economic and Social Research Council (ESRC).

Modules

Compulsory modules may include: Philosophy of Social Science; Quantitative Research Methods; Research Design and Practice; Qualitative Research Methods; Specialist Research Methods; Dissertation.

You will also study optional modules in a range of advanced research methods.

How you will be assessed

You will be assessed by a combination of exams, coursework and group work.

How you will study

You will study through a range of seminars, lectures, tutorials, independent study, group work, practical sessions, supervision and workshops.

Who should study this programme?

Our MSc Social Science Research (Business and Management Studies) is designed for graduates wishing to pursue a career in academia, practitioners in management and business who wish to develop and strengthen their applied research skills, or those wishing to conduct research in non-academic public and private sector roles, such as thinktanks.



—
*"I chose Loughborough because I fell in love
with the course, the campus and the sports facilities.
I wanted to experience it all!"*
—





Louisa
PhD student

"I chose Loughborough for several reasons – it's top 10 in the UK for chemical engineering and excellent in research. I was particularly impressed by the diversity, facilities and support for students."


GUARDIAN UNIVERSITY
GUIDE 2019
TOP 10 IN THE UK FOR
CHEMICAL ENGINEERING


£17M STEMLAB
FACILITY

Chemical Engineering

The Department of Chemical Engineering is committed to developing the chemical engineers of the future by providing essential knowledge and training in the sciences, technology, management and communication disciplines.

With a vibrant and exciting community of academic staff, postdoctoral research fellows and influential visitors from all over the world, postgraduate students in Chemical Engineering have the opportunity to be involved in the latest developments and research within the process industries.

The Department is housed in a purpose-built facility including a 395m² multi-story mezzanine pilot plant and excellent quality laboratories and services for both bench and pilot-scale work. The facility is complemented by first-rate computational and IT resources and has a number of mechanical and electronic workshops. Students

also benefit from a £17 million state-of-the-art STEMLab, which contains engineering, sciences, materials, bioscience and bioengineering laboratories.

Inspiring research

The Department delivers cutting-edge research which aims to tackle global challenges expected over the next 50 years. This includes the commercial production of stem cells, smarter disinfection of hospital wards, novel drug delivery methods, advanced water treatment and continuous manufacturing of pharmaceutical products.

The Department focuses on three multidisciplinary research areas: Biological Engineering, Pharmaceutical Engineering and Micro/Nano-Materials Engineering. There is an enterprising culture within the Department, demonstrated through close working relationships with a range of diverse companies such as AstraZeneca, BP, British Sugar, Carlsberg, E.ON, Exxon, GlaxoSmithKline, PepsiCo and Unilever.

Our programmes

Research opportunities	p94
Advanced Chemical Engineering with Information Technology and Management	p95
Advanced Process Engineering	p95

 lboro.ac.uk/pg2019/chemical

Research opportunities

PhD: 3 years full-time; 6 years part-time
MPhil: 2 years full-time; 3 years part-time

Entry requirements

A honours degree (2:1 or above) or equivalent overseas qualification in a relevant discipline.

Fees

Band RB (see page 228 for details).

As a research student in the Department of Chemical Engineering, you will have the opportunity to not only become an independent researcher but create a lasting network of peers. Attendance at relevant conferences is encouraged, with bursaries for travel made available on a competitive basis.

Supporting you

You will be assigned a supervisory team who, together with the Director of Doctoral Programmes, provides academic and pastoral support. Training and departmental seminars will help you to develop your skills and you will be expected to present your own research papers. You will be provided with your own desk and computer in a shared departmental office, with access to library, IT and state-of-the-art laboratory facilities.

How to apply

Projects which have funding attached (eg through research councils, university funding or industry sponsorship) are advertised on our online prospectus and do not require a research proposal.

For self-funded projects or those funded by third-party sponsors, you should indicate the research group with which you would like to study and preferably the member(s) of staff whose area is of most interest. A detailed research proposal can be included with the application but is not necessary.

Our areas of research

Pharmaceutical and Bioengineering

Our vision is to exploit pharmaceutical engineering technologies and provide bio-engineering solutions to tackle global healthcare challenges, such as antimicrobial resistance, and enable cost effective production of high value drugs (ranging from traditional tablets to cell, gene and tissue based therapies). Examples include: manufacturing and scale up challenges for cell-based therapies, gene therapies and bacteriophage; development of bioprocessing toolkits, which include genetic engineering; development of scale down models of tissue culture models; engineering human tissue for diagnostic, drug toxicity testing and clinical purposes; generation of functional particles and particle-based architectures by microfluidic platforms; encapsulation of cells and bioactive compounds, including novel antimicrobials; handling of complex powder formulations; freeze drying of pharmaceutical excipients; population balance and CFD modelling of pharmaceutical crystallizers, bioreactors, and downstream process units; crystallisation systems engineering; pharmaceutical process control.

Nano- and Micro-Scale Engineering

We have a leading reputation for our expertise in particle technology. In recent years this has evolved into nano- and micro-engineering of particles and materials with regards to their manufacture, formulation and dispersion. Examples include: particulate manufacturing using membrane emulsification or microfluidic platforms; optical manipulation and construction of micro-particle based assemblies for compartmentalised chemistry and synthetic biology; engineering of materials for fuel cells, batteries and supercapacitors; development of nanocatalysts for electrochemical ozone generation for wastewater treatment.

Energy and Environmental Engineering

Research in this area covers a wide range of topics, including the development of technology to produce clean fuels; work related to hydrogen storage and transportation; water and air pollution control technologies; microfluidic system for environmental solute detection; CO₂ sequestration and monitoring; computational modelling of contaminant dispersion in both liquid and gas phases. Examples include: the development of portable water purification systems; the application of plasma technology for treatment of emerging pollutants in water; the application of photo-catalysis for treatment of water and indoor air.

Catalytic, Separation and Purification Technology

Our research covers both fundamental phenomenon and the design and simulation of conventional and new processes, including adsorption, ion exchange and membrane separation. Applications can range from biotechnology and green processes to energy, resource recovery and recycling. Projects cover a wide range of topics including nanofiltration of solvents, applications in fuel purification, ultrafiltration of proteins, and nano-structured adsorbents for blood purification.

Taught programmes

Advanced Chemical Engineering with Information Technology and Management

MSc

Full-time length: 1 year

Part-time length: not available

Entry requirements

An honours degree (2:1 or above) or equivalent overseas qualification in engineering or physical sciences.

Fees

Fee band 3 (see page 228 for details).

Programme overview

Our MSc Advanced Chemical Engineering with Information Technology and Management addresses recent developments in the global chemical industry by focusing on advancements of information technology and business management skills.

Teaching has an emphasis on design activities and you will be provided with an in-depth understanding of the IT skills required for advanced chemical processes. You will increase your knowledge of entrepreneurship, planning a new business, marketing, risk, and financial management and exit strategy.

You will benefit from the £4 million redevelopment of the Department's labs including a pilot-scale lab and computer labs, and an 'igloo' – a 3D virtual training facility in collaboration with BP.

Modules

Compulsory modules may include: Process Systems Engineering and Applied IT Practice; Advanced Computational Methods for Modelling and Analysis of Chemical Engineering Systems; Planning and Communicating Research; Logistics and Supply Chain Management; Strategic Management for Construction; MSc Project.

Optional modules may include: Filtration; Chemical Product Design; Mixing of Fluids and Particles; Downstream Processing; Interfacial Science and Engineering; Clean Chemical Energy and Sustainability.

How you will be assessed

You will be assessed by exams, coursework, class presentations and a dissertation.

How you will study

You will study through lectures, tutorials, independent study, group work, supervision and workshops.

Who should study this programme?

Our MSc will enable you to develop a high level of industry specific skills in computational methods and modelling, along with those in management, to further develop and fine-tune your transferable skills.

Advanced Process Engineering

MSc

Full-time length: 1 year

Part-time length: not available

Entry requirements

An honours degree (2:1 or above) or equivalent overseas qualification in engineering or physical sciences.

Fees

Fee band 3 (see page 228 for details).

Programme overview

Our MSc Advanced Process Engineering is designed to advance students' knowledge in process engineering by focusing on an in-depth understanding of the fundamentals of key chemical and industrial processes and their application and translation to practice.

The programme is accredited by the Institution of Chemical Engineers and enables you to develop an understanding of particular aspects of process engineering. You will study advanced modules that are relevant to the changing priorities and requirements of the modern process industries.

There will be the opportunity to apply existing and new knowledge to solving or gaining further knowledge of a real-life research, plant operational or management problem and in so doing, develop a range of skills. The dissertation is conducted over two semesters and you will work closely with a member of academic staff on a topical project.

Modules

Compulsory modules studied may include: Applied Engineering Practice; Downstream Processing; Planning and Communicating Research; Applied Heterogenous Catalysis; Research Project.

Optional modules may include: Chemical Product Design; Interfacial Science and Engineering; Filtration; Mixing of Fluids and Particles; Clean Chemical Energy and Sustainability; Advanced Computational Methods for Modelling and Analysis of Chemical Engineering Systems; Process Systems Engineering and Applied IT Practice.

How you will be assessed

You will be assessed by a combination of exams, coursework and class presentations, as well as a dissertation on an agreed topic.

How you will study

You will study through a range of seminars, lectures, tutorials, independent study, group work, practical sessions, supervision and workshops.

Who should study this programme?

Our MSc Advanced Process Engineering is suitable if you are looking to develop your knowledge and understanding of topical and newly emerging aspects of process engineering, such as product design and manufacture, batch processing, risk and safety, health and environment.



Sarah
PhD student

"Loughborough has a great record of interdisciplinary collaboration between its schools and I've had no problem accessing the outstanding facilities found across its departments, from 3D printer centres to materials characterisation labs."



Chemistry

The Department of Chemistry has an international reputation for teaching and research excellence and is committed to providing high quality training and support for postgraduate students.

The department benefits from state-of-the-art facilities, enhanced by the University's £17 million STEMLab and a £6 million investment in newly refurbished chemistry laboratories. Our research labs and study areas enable students to gain first hand experience of the latest techniques in analytical, environmental, inorganic, organic and physical chemistry.

Our postgraduate students are part of a stimulating and inclusive academic community within the Department. They are regularly engaged in high-profile, high-impact research projects which continue to address real world problems in vital areas such as energy and the environment, defence and security, and health and medicine. Our academic and research staff are nationally and internationally recognised as experts in their fields.

Employability

Graduates can expect to develop their careers in the pharmaceutical and food industries, analytical and environmental laboratories, public and regulatory utilities, or industrial laboratories. Recent postgraduate destinations include Pfizer, Reckitt Benckiser, Nova Laboratories, GSK, and ALS Environmental Ltd.

Research opportunities

The Department of Chemistry offers popular and industry-relevant research opportunities across a range of areas including energy, markers and detection; crime and security; chemical process technologies; and catalysis and functional molecules.

PhD students in the Department are a key part of Loughborough's dynamic postgraduate community. Students are encouraged to participate in conferences and present their research in order to widen their perspective and grow their research network.

Part of the School of Science, staff and PhD students also contribute to four newly launched interdisciplinary research centres:

- Centre for Imaging Science
- Centre for the Science of Materials
- Centre for Geometry and Applications
- Interdisciplinary Centre for Mathematical Modelling.

Our programmes

Research opportunities	p98
Analytical and Pharmaceutical Science	p99
Analytical Chemistry	p99
Pharmaceutical Science and Medicinal Chemistry	p100

Research opportunities

PhD: 3 years full-time; 6 years part-time
MPhil: 2 years full-time; 4 years part-time

Entry requirements

An honours degree (2:1 or above) or equivalent overseas qualification in chemistry or a closely related discipline.

Fees

Band RB (see page 228 for details).

Supporting you

You will have at least two academic supervisors who will guide you in your research. We provide training courses on research methods, safety, use of instrumentation and IT, and we also offer a regular programme of seminars from visiting lecturers. Our research students attend group meetings and conferences and can gain practical experience of teaching undergraduate students, as well as having opportunities to undertake research placements.

How to apply

Projects which have funding attached (eg through research councils, university funding or industry sponsorship) are advertised on our online prospectus and do not require a research proposal.

For self-funded projects or those funded by third-party sponsors, you do not need to submit a detailed research proposal with your application but you should indicate which area of research you wish to pursue and/or the names of staff members you are interested in working with.

Our areas of research

Research is carried out in all areas of chemistry, and we have three main themes in the Department:

Energy

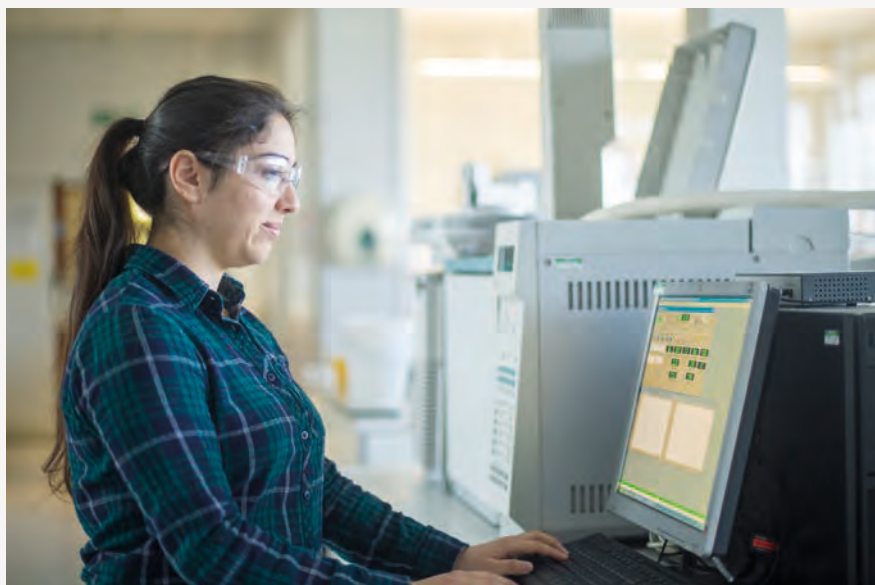
Research is focused on innovation in the production and storage of green energy, electrochemistry and photochemistry.

Markers and Detection

The focus is on the discovery and application of markers of health, vitality and disease. New molecular markers provide valuable opportunities for other researchers, as well as different approaches to the management and characterisation of complex situations.

Catalysis and Functional Molecules

The research involves the development of new catalytic methods and reaction chemistries to develop novel functional molecules with applications in health and materials science.



Taught programmes

Analytical and Pharmaceutical Science

MSc/Diploma/PG Certificate

Full-time length: 1 year

Part-time length: 2-5 years

Entry requirements

An honours degree (2:2 or above) or equivalent overseas qualification in chemistry, biochemistry or a closely related subject.

Fees

Band 3 (see page 228 for details).

Programme overview

Our MSc Analytical and Pharmaceutical Science is a popular and industry-relevant programme designed for graduates in chemistry or closely related disciplines who wish to contribute to drug development and analysis, a process which requires multidisciplinary skills.

The programme comprises a broad range of modules covering the major aspects of analytical and pharmaceutical chemistry, complemented by studies in transferable and professional skills.

You will be taught via a combination of self-learning and short courses with practical laboratory sessions and formal assessment by coursework and examination.

Modules

Compulsory modules may include: Research Methods; Separation Techniques; Pharmacokinetics and Drug Metabolism; Spectroscopy and Structural Analysis; Professional Skills. You will also conduct a Research Training Project based either on a placement in industry or with a research group in the Chemistry Department.

Optional modules may include: Mass Spectrometry and Associated Techniques; Drug Targets, Drug Design and Drug Synthesis; Sensors; Innovations in Analytical Science; Innovations in Medicinal Chemistry.

How you will be assessed

You will be assessed by a combination of exams, coursework and class presentations, as well as a dissertation on an agreed topic.

How you will study

You will study through a range of lecturers, seminars, practical sessions, tutorials and group work.

Who should study this programme?

Our Analytical and Pharmaceutical Science programme is ideal for graduates wishing to contribute to drug development and analysis.

Analytical Chemistry

MSc/Diploma/PG Certificate

Full-time length: 1 year

Part-time length: 2-5 years

Entry requirements

An honours degree (2:2 or above) or equivalent overseas qualification in chemistry, biochemistry or a closely related subject.

Fees

Band 3 (see page 228 for details).

Programme overview

Our MSc Analytical Chemistry is designed to provide comprehensive training in analytical chemistry and its implementation in a variety of fields including biomedical, pharmaceutical, food and environmental analysis.

Analytical chemists assess the chemical structure and nature of substances. Their skills are needed for a variety of purposes including drug development, forensic analysis and toxicology. Analytical chemists can specialise in areas as varied as toxicology, pharmaceuticals and forensics.

The programme comprises a broad range of modules covering all the major analytical techniques, complemented by studies in transferable and professional skills, and with the option to study aspects of medicinal and pharmaceutical chemistry if desired.

Modules

Compulsory modules studied may include: Research Methods; Separation Techniques; Mass Spectrometry and Associated Techniques; Spectroscopy and Structural Analysis; Professional Skills and Dissertation; Research Project.

Optional modules studied may include: Pharmacokinetics and Drug Metabolism; Drug Targets, Drug Design and Drug Synthesis; Sensors; Innovations in Analytical Science.

How you will be assessed

You will be assessed by a combination of exams, coursework and class presentations, as well as a dissertation on an agreed topic.

How you will study

You will study through a range of lectures, seminars, tutorials and practical sessions, allowing you to gain experience in nanopore technologies, separation science and the latest techniques in mass spectrometry.

Who should study this programme?

Our Analytical Chemistry programme is designed for students who are looking to develop their understanding across the spectrum of major analytical techniques, complemented by developing transferable and professional skills.

Pharmaceutical Science and Medicinal Chemistry

MSc/Diploma/PG Certificate

Full-time length: 1 year

Part-time length: 2-5 years

Entry requirements

An honours degree (2:2 or above) or equivalent overseas qualification in chemistry, biochemistry or a closely related subject.

Fees

Band 3 (see page 228 for details).

Programme overview

Our MSc Pharmaceutical Science and Medicinal Chemistry will provide you with training in pharmacokinetics, drug metabolism, drug synthesis, and methods to identify potential drug targets and drug candidates, and to assess the biological activities of drug compounds.

The programme focuses on the biochemistry, pharmacology, design, analysis and delivery of pharmaceutical substances, including the development of safe and effective drugs.

You will benefit from our state-of-the-art laboratories and enjoy access to a broad range of scientific instrumentation including 400 MHz, 500 MHz, solid-state and benchtop NMR spectrometers; single crystal and powder X-ray diffractometers; a high resolution inductively-coupled plasma mass spectrometer; GC-MS and linear ion trap LC-mass spectrometers; ion mobility spectrometers; gas and liquid chromatographs; and tunable nanopore sensors.

Modules

Compulsory modules studied may include: Research Methods; Pharmacokinetics and Drug Metabolism; Drug Targets, Drug Design and Drug Synthesis; Spectroscopy and Structural Analysis; Professional Skills and Dissertation; Research Project.

Optional modules may include: Separation Techniques; Mass Spectrometry and Associated Techniques; Innovations in Analytical Science; Innovations in Medicinal Chemistry.

How you will be assessed

You will be assessed by a combination of exams, coursework and class presentations, as well as a dissertation on an agreed topic.

How you will study

You will study through a range of lectures, seminars, tutorials and practical sessions enabling you to gain experience in drug synthesis, binding assays and pharmacokinetics.

Who should study this programme?

Our Pharmaceutical Science and Medicinal Chemistry programme is designed for graduates in chemistry or a closely related discipline who wish to contribute to drug development in the pharmaceutical industry.

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*"I chose Loughborough
because it's consistently a
top 10 UK university and for
its research reputation and
student support."*
—





Department of Chemistry

Forensic technology making it impossible to destroy fingerprint evidence

New forensic technology created by scientists at Loughborough University will make it “impossible” for criminals to erase their fingerprints from crime scenes.

Forensic scientists have previously been faced with the challenge of taking prints from problematic exhibits, such as spent ammunition casings. Loughborough has developed an advanced detection technique to overcome this, together with the Defence Science and Technology Laboratory (DSTL) – an executive agency of the Ministry of Defence – and the Home Office’s Centre for Applied Science and Technology.

The innovation, which uses a chemical to uncover fingerprints, will make it far easier for police to recover impressions from previously challenging crime scenes involving materials subjected to high temperatures or immersed in water, or prints left on deformed surfaces. It also has the potential for major advancements in forensic science.

Dr Paul Kelly, Deputy Head of Department and Reader in Inorganic Chemistry, began working on the project seven years ago alongside PhD student Rob King, who is now a research and development applications specialist for forensic company Foster and Freeman (F&F), the company that is making the technology commercially available.

Dr Kelly said: “The whole process, up until now, has been developed here at Loughborough, from its initial serendipitous observations through to prototyping. Now Foster and Freeman will refine the technology for commercial use.

The success of the original work has led to the research group investigating other methods of print development, analysis of bodily fluids at crime scenes and the use computational chemistry to design new forensic techniques.

 lboro.ac.uk/pg2019/inspiringstories



Lou

MA Media and Cultural Analysis

"I love the variety of topics that we cover and the lecturers are so friendly and helpful. To anyone thinking about doing a master's – apply! You will learn so much, you'll have a great time and you'll make really great friends."



TIMES GOOD UNIVERSITY
GUIDE 2018

1ST IN THE UK FOR
COMMUNICATION AND
MEDIA STUDIES



QS WORLD
RANKINGS 2018

TOP 50 IN THE WORLD
FOR COMMUNICATION
AND MEDIA STUDIES

Communication and Media

Communication and Media at Loughborough has long been recognised as an international centre of academic excellence and for its cutting-edge interdisciplinary work.

This study area offers a rich variety of taught postgraduate master's programmes relating to media, communication and culture. The courses are delivered by an internationally-renowned interdisciplinary team, through the use of contemporary case studies and research-informed applied teaching and learning. These courses provide training in media, communications, digital culture, sociological and anthropological theory, as well as quantitative and qualitative methods.

Loughborough is home to world-leading, original and internationally-excellent research in communication, media studies, and social psychology.

Communication and Media staff work with a wide range of public and third sector bodies (eg BBC Trust, Metropolitan Police, the Electoral Commission, the College of Mediators, and the Department of Health).

Our graduates have gone on to work in industries including television, marketing, academia and publishing. They work for companies and organisations such as China Development Research Foundation, Elsevier Ltd, Image Line Communication, Institute of Psychiatry, Metropolitan Police Service, Oxfam, and X-Pert Med GmbH.

Our programmes

Research opportunities	p106
MA Digital Media and Society	p107
MA Global Media and Cultural Industries	p107
MA Social Media and Political Communication	p108
MA Media and Cultural Analysis	p108
MSc Social Science Research (Communication and Media)	p109



lboro.ac.uk/pg2019/communication

Research opportunities

PhD: 3 years full-time; 6 years part-time

MPhil: 2 years full-time; 4 years part-time

Entry requirements

An honours degree (2:1 or above) or equivalent overseas qualification in a related subject.

Fees

Band RA (see page 228 for details).

Based within the School of Social Sciences, Communication and Media comprises the disciplines of communication and media studies, and social psychology. All of our academic staff are active researchers, working within and across disciplinary boundaries. The School is home to 110 postgraduates working closely with 80 specialist supervisors who are located in one of four main research areas:

- Communication and Media
- Geography and Environment
- Politics and International Studies
- Social and Policy Studies.

Supporting you

You will be assigned two supervisors who are international experts in their respective fields plus an internal reviewer and a Director of Doctoral Programmes. This team provides tailored academic and pastoral support throughout your studies. The School runs an extensive programme of research training and you will have the chance to participate in and run seminars and discussion groups. These will help you integrate into the School's academic community and develop skills that will enable you to present your work at national and international conferences.

You will be provided with access to a shared office with networked PC and specialist software, allowances for photocopying, conference attendance and inter-library loans.

How to apply

Projects which have funding attached (eg through research councils, university funding or industry sponsorship) are advertised on our online prospectus and do not require a research proposal.

For self-funded projects or those funded by third-party sponsors, you are strongly advised to contact spgsresearch@lboro.ac.uk before making an application. This will allow us to ensure that supervision is available and that your proposal falls into an area of established expertise. It also helps us put you in touch with our academics if you want to discuss your ideas informally before you apply. If you wish to make an application, you will also need to submit a research proposal with your application. Please see our online prospectus for guidance.

Our areas of research

Communication and Media Studies

This group uses multidisciplinary approaches to analyse media and the communications industries and to develop theory. Comparative perspectives feature strongly in much of its work and members are internationally renowned for their research and publications.

Social Psychology

This group is internationally renowned for its research on social interaction across a range of everyday and institutional contexts, and on social identities, groups and processes. Leaders in the areas of conversation analysis, discursive psychology, and political psychology, the group publish prolifically on topics such as prejudice, identity, children and families, and communication in professional and clinical contexts.

Centre for Research in Communication and Culture (CRCC)

Comprises the world-leading Discourse and Rhetoric Group (DARG) and Culture and Media Analysis Research Group (CAMARG) involving staff from across the School. Their influential research has real world impact through their engagement with private and public-sector organisations.

The Online Civic Culture Centre

This centre applies cutting-edge concepts and methods from social science and information science to understand the role of social media in shaping our civic culture. It features a team of academic supervisors drawn from the disciplines of communication, information science, social psychology and sociology. Interdisciplinary teams of researchers and PhD students work together on issues of misinformation, disinformation and the rise of hate speech and incivility online.

Taught programmes

Digital Media and Society

MA

Full-time length: 1 year

Part-time length: not available

Entry requirements

An honours degree (2:1 or above) or equivalent overseas qualification in a wide range of subjects.

Fees

Band 1 (see page 228 for details).

Programme overview

Our MA Digital Media and Society offers a comprehensive understanding of current developments in digital media and their wider social significance.

The programme is designed to provide you with an in-depth understanding of current thinking and debates on the implications of the integral role of digital media in contemporary life. It is delivered by a diverse interdisciplinary team with a strong profile in digital culture, media, sociology, anthropology and communication studies.

As part of the dissertation module, visiting speakers from across the media and creative industries will give guest lectures, providing insights into the sector.

During the Easter vacation there is the opportunity to undertake a four-week placement which can be recognised as part of your dissertation research project. This will (in part) be assessed on the quality of your reflection on the placement experience.

Modules

Compulsory modules may include: Researching Communication; Digital Futures; Digital Economies; Key Debates in Digital Media and Society; Dissertation.

Optional modules may include: Media and Cultural Industries; Politics of Representation; Marketing Politics; Media and Modernity; Global Communications; Media and Cultural Work; Digital Cultures; Cultural Memory and Heritage Industries.

How you will be assessed

You will be assessed by a combination of coursework and group work.

How you will study

You will study through seminars, lectures, tutorials, independent study, group work, supervision and workshops.

Who should study this programme?

Our MA Digital Media and Society is suitable if you are interested in the historical expansion of communications media, the institutionalisation of media systems, various audiences' uses of the media and the implications of new media for cultural life.

Global Media and Cultural Industries

MA

Full-time length: 1 year

Part-time length: not available

Entry requirements

An honours degree (2:1 or above) or equivalent overseas qualification in the social sciences or humanities.

Fees

Band 1 (see page 228 for details).

Programme overview

Global media and cultural industries are important sources of employment and economic growth internationally. Our MA programme focuses on the growth of these global industries and the roles that states play in governing them. It also explores the ways in which media institutions, media practitioners and regulatory bodies operate and interact in continually changing technological, social and cultural contexts. The programme draws on the considerable expertise in transnational and comparative research, as well as expertise in the political economy of communication from our Centre for Research in Communication and Culture.

During the Easter vacation there is the opportunity to undertake a four-week placement which can be recognised as part of your dissertation research project.

Modules

Compulsory modules may include: Researching Communication; Media and Cultural Industries; Digital Futures; Media and Cultural Work; Key Debates in Media and Cultural Industries; Dissertation.

Optional modules may include: Digital Economies; The Politics of Representation; Marketing Politics; Media and Modernity; Global Communications; Media and Cultural Work; Digital Cultures; Cultural Memory and Heritage Industries.

How you will be assessed

You will be assessed by a combination of coursework and group work.

How you will study

You will study through a range of seminars, lectures, tutorials, independent study and group work.

Who should study this programme?

Our MA Global Media and Cultural Industries is suitable for students who are looking to further their understanding of advanced concepts and theories drawn from media, communications and associated disciplines.

Social Media and Political Communication

MA

Full-time length: 1 year

Part-time length: 2 years

Entry requirements

An honours degree (2:1 or above) or equivalent overseas qualification in the social sciences or humanities.

Fees

Band 1 (see page 228 for details).

Programme overview

Our MA Social Media and Political Communication is an exciting and unique programme which will give you advanced knowledge of how social media shapes the exercise of political power in today's turbulent world.

The digital age has produced some of the most remarkable developments in modern history. The Arab Spring, Occupy, Brexit, the #MeToo movement, the election of Donald Trump, the growth of online misinformation and automated propaganda, debates over online "filter bubbles" and fake news, mass microtargeting of political messages, and concerns about the growing power of social media platforms, algorithms and big data over the lives of citizens.

On this innovative programme you will conduct advanced, in-depth analysis of the complex relationships between social media, political influence and power. You will explore the consequences for democracy by critically examining how social media shapes citizens' knowledge, participation and empowerment.

Modules

Compulsory modules may include: Social Media and Political Communication; Data, Power, and Democracy; Marketing Politics; Key Debates in Social Media and Political Communication; Researching Communication: Media Users and Cultural Institutions; Researching Communication: Texts and Digital Platforms; Dissertation in Social Media and Political Communication.

Optional modules may include: Political Psychology; Digital Futures: Explorations in New Media; Digital Economies; Global Communication; Media and Cultural Industries: Political Economy and Public Policy; Digital Cultures; The Politics of Representation; Media and Cultural Work.

How you will be assessed

You will be assessed by coursework and a dissertation.

How you will study

You will study through seminars, lectures, group work, practical sessions, projects, social media campaign design and simulation, supervision and workshops.

Who should study this programme?

This programme is ideal for graduates who are interested in exploring today's media and politics.

Media and Cultural Analysis

MA

Full-time length: 1 year

Part-time length: not available

Entry requirements

An honours degree (2:1 or above) or equivalent overseas qualification in the social sciences or humanities. Applicants with appropriate professional expertise will also be considered.

Fees

Band 1 (see page 228 for details).

Programme overview

This MA programme provides a critical introduction to key areas of media and cultural analysis. The core modules address three major concerns: the role of the media in everyday social life and in the public domain; how the media construct and communicate meaning; and the ways in which the media are involved in and contribute to the distribution of power in social life. The programme is specifically concerned about how these issues play out in an international context.

You will benefit from a bespoke package of study skills support that we have designed in collaboration with the Academic Language Support Service. This is run through the dissertation module in the first term. It supports you in using and interpreting academic literature, referencing, critical thinking and developing your own writing style.

Modules

Compulsory modules studied may include: Media and Cultural Industries; Researching Communication; Politics of Representation; Media and Modernity; Key Debates in Media and Cultural Analysis; Dissertation.

Optional modules may include: Digital Futures; Digital Economies; Marketing Politics; Global Communications; Media and Cultural Work; Digital Cultures; Cultural Memory and Heritage Industries.

How you will be assessed

You will be assessed by a combination of coursework and group work.

How you will study

You will study through a range of seminars, lectures, tutorials, independent study, group work and workshops.

Who should study this programme?

Our MA Media and Cultural Analysis is suitable for students looking to further their understanding of the major traditions, theories and frameworks of inquiry relevant to the analysis of media, communications and associated disciplines.

Social Science Research (Communication and Media)

MSc

Full-time length: 1 year

Part-time length: 2 years

Entry requirements

An honours degree (2:1 or above) or equivalent overseas qualification in a wide range of subjects.

Fees

Band 1 (see page 228 for details).

Programme overview

Our MSc Social Science Research (Communication and Media) is designed for students interested in pursuing a research career in communication and media in both academia and industry and is accredited by the Economic and Social Research Council (ESRC).

The programme provides an opportunity to develop specialised research methods skills in communication and media in an internationally renowned department, as well as a comprehensive overview of the key methodological and philosophical debates that currently shape social sciences.

Modules

Compulsory modules studied may include: Philosophy of Social Science; Quantitative Research Methods; Research Design and Practice; Qualitative Research Methods; Specialist Research Methods: Production and Reception; Dissertation.

Optional modules may include: Doing Research with Young People in their Social-Spatial Contexts; Advanced Content Analysis; Methodological Advances in Applied Ethnography; Applied Conversation Analysis; Methodological Implications of Critical Realism.

How you will be assessed

You will be assessed by a combination of coursework and group work.

How you will study

You will study through a range of seminars, lectures, practical sessions and workshops.

Who should study this programme?

Our MSc Social Science Research (Communication and Media) is suitable if you wish to pursue an academic career or conduct research in non-academic public and private sector roles. It is also suitable for communication and media practitioners looking to develop and strengthen their applied research skills.



Communication and Media

Explaining and combating online hatred and misinformation

A new research centre is looking at the impact of social media on the spread of misinformation and the rise of hate speech and incivility.

The Online Civic Culture Centre is led by Professor Andrew Chadwick and features an academic team drawn from the disciplines of communication, information science, social psychology and sociology.

Through funded PhD research the centre will examine whether the features of social media that enable people to express themselves, exchange opinions, co-ordinate with others, and rapidly circulate and recirculate messages also encourage the dissemination of false information, incivility and hatred.

The first research projects focus on the cultivation of hatred online, incivility and emotions in policy discussions on social media (eg climate change), health care and housing, and correcting misinformation and disinformation on social media.

"Across the world we face fundamental questions about how the routine use of social media is reshaping the civic cultures of democracies", explains Professor Chadwick.

"Online civic culture refers to the social norms that people use when they interact with other people online. Are people civil, tolerant, not using personalised insults or remarks that discriminate against others based on their race, sexuality, or nationality? Do people tend to use misinformation and unsubstantiated rumours of the kind that undermine rational political debate? How can we encourage people to uphold positive civic values when they go online?"

"There is a profound need for evidence, analysis and creative ways of improving the health of our online civic culture. Our research will shape the next generation of scholarship and public knowledge in a crucial area – one that affects us all."



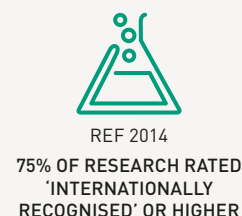
lboro.ac.uk/pg2019/inspiringstories



Shulin Li

MSc Advanced Computer Science

"My postgraduate studies have allowed me to focus on topics that interest me, like artificial intelligence and network security."



Computer Science

The Department of Computer Science is committed to delivering inspiring teaching and cutting-edge research at the forefront of technological innovation.

Our postgraduate students join a talented research community that continues to make a valuable contribution to the rapidly developing computer science sector, particularly in areas such as wireless communications, multimedia, logistics, healthcare, the emergency services, transport, surveillance and the environment. Our postgraduate programmes have been developed in collaboration with a number of national and international partners to ensure they meet the needs of industry and provide students with the latest knowledge and skills sought by employers.

Industry partners not only inform the curriculum but also shape the way research and projects are conducted. Organisations such as BAE Systems, Jennic, Arqiva, Sure, Advantica, Toyota, Sensinode and Rolls-Royce have collaborated with the Department to develop new ideas and solve the challenges facing industry today.

Students in the Department benefit from 24-hour exclusive access to state-of-the-art computer labs, including a dedicated MSc laboratory, operated by a team of systems specialists.

Excellent career prospects
Graduates from the Department have entered a diverse range of organisations, including Google, Credit Suisse, Ocado, Rolls-Royce, Winton Capital, and AVG Technologies.

Research with impact
The Department's research is focused on the three main themes of Vision, Autonomous and Human Computer Systems; Internet Systems and Network Security; and Theoretical Computer Science.

Part of the School of Science, staff and PhD students within the Department also contribute to four newly launched interdisciplinary research centres:

- Centre for Imaging Science
- Centre for the Science of Materials
- Centre for Geometry and Applications
- Interdisciplinary Centre for Mathematical Modelling.

Our programmes

Research opportunities	p114
Advanced Computer Science	p115
Internet Computing and Network Security	p115

Research opportunities

PhD: 3 years full-time; 6 years part-time
Integrated PhD: 4 years part-time
MPhil: 2 years full-time; 4 years part-time

Entry requirements

A 2:1 honours degree (or equivalent overseas qualification) or equivalent experience in an area related to computer science.

Fees

Band RB (see page 228 for details).

Supporting you

You will receive academic and pastoral support from two supervisors and the Director of Doctoral Programmes. The Department also offers a regular, varied programme of seminars with both internal and external speakers, organised social activities and opportunities for research skills training and networking. You will also have access to a workstation, online access to many international journals, access to funds for conference attendance and consumables, and access to library and IT services.

How to apply

Projects which have funding attached (eg through research councils, university funding or industry sponsorship) are advertised on our online prospectus and do not require a research proposal.

For self-funded projects or those funded by third-party sponsors, you should include a research proposal of approximately two pages with your application. This proposal should outline the research context, the main aim and objectives of the proposed research, and some indication of the methodology to be used.

Our areas of research

Vision, Autonomous and Human-Computer Systems (AVCH)

This group focuses on the development of advanced image analysis, coding and computational intelligence technologies that can be used to implement autonomous or decision support systems in a wide range of application areas in both hardware and software.

The group also engages in human factors research recognising the importance of the parts that humans play in any system. Research strengths include computer vision, computer graphics, decision support systems, human factors, image and video processing and analysis, machine learning, multi-agent systems, pattern and object recognition and requirements analysis. The group collaborates extensively with industry to ensure the relevance of its research. It has a strong track record of attracting funding from EPSRC, TSB, the European Union, the Home Office, NHS and UK industry.

Internet Systems and Network Security (ISNS)

Theories and technologies in networking, sensing, control and communication play important roles in the modern world and are expected to remain of great significance in the future. Our research focuses on all aspects of networking and communicating systems, and addresses specific issues related to the internet and control, wireless sensor networks, network performance modelling and measurement, performance evaluation with Quality of Service (QoS) constraints and application performance investigation. Work ranges from the underlying mathematical theory to practical creation and operation of networked systems. Research strengths include internet control, wireless sensor networks, internet Quality of Service and congestion control, coding theory, and accessibility and usability.

Theory and Applications of Formal Systems (TAFS)

The research of the TAFS group covers a relatively wide range of established and emerging fields in Theoretical Computer Science, including mathematical logic, formal languages, computability and complexity theory, numerical analysis, cryptography, geometric computation, algorithmic learning theory and energy efficient scheduling.

Taught programmes

Advanced Computer Science

MSc

Full-time length: 1 year

Part-time length: 2 years

Entry requirements

An honours degree (2:2 or above) or equivalent overseas qualification in computer science or a related discipline which includes programming and networking.

Fees

Band 3 (see page 228 for details).

Programme overview

Our MSc Advanced Computer Science has been developed with input from UK and international organisations to equip students with the cutting-edge practical skills sought by employers.

The fast-paced field of computer science – and the needs of industries and organisations that are driven by technological development – creates a demand for highly-skilled individuals possessing the advanced skills and knowledge with which our MSc programme is designed to equip you. Developed with input from UK and international organisations, ensuring commercial relevance, and drawing on the Department's research strengths, the MSc Advanced Computer Science will appeal to students seeking to build on a first degree in Computer Science or a comparable discipline involving programming and networking. It will develop your professional skills and specialise in areas such as image processing, multimedia, artificial intelligence, robotics, and theoretical computer science.

Modules

Modules studied may include: Advanced Programming; Building Secure Networks; Computer Vision and Embedded Systems; Cryptography and Secure Systems; Robotics and Intelligent Systems; Wireless Networks; Research Methods; Project Preparation; Research Project.

How you will be assessed

You will be assessed by a combination of exams, coursework and class presentations.

How you will study

You will be taught through a range of lectures, seminars, presentations, tutorials and computer-based self-managed materials, in combination with laboratory exercises.

Who should study this programme?

Our MSc Advanced Computer Science is ideal for those looking to develop the knowledge and skills needed to become an effective specialist professional within the computing industries.

Internet Computing and Network Security

MSc

Full-time length: 1 year

Part-time length: 2 years

Entry requirements

An honours degree (2:2 or above) or equivalent overseas qualification in computer science or a related discipline which includes programming and networking.

Fees

Band 3 (see page 228 for details).

Programme overview

Our MSc Internet Computing and Network Security will provide you with a view on network architecture, protocols, security, performance, modelling, simulation and programming, as well as wireless networks.

You will be taught by staff who are actively researching all aspects of networking and communications from mathematical theory to the creation and operation of networked systems, and you will learn through a combination of lectures, seminars, presentations, tutorials, industrial guest lectures and computer-based self-managed materials in conjunction with laboratory exercises.

You will benefit from access to our six, 24-hour computer laboratories that boast triple boot (Windows/Linux/MacOS) computers, as well as support from a team of systems specialists. The department building also provides modern study rooms, seminar rooms, specialist labs and breakout spaces for group work and collaboration.

Modules

Modules studied may include: Network Modelling and Performance; Internet Systems; Internet Protocol Design; Building Secure Networks; Cryptography and Secure Systems; Wireless Networks; Project Preparation; Research Methods; Individual Project.

How you will be assessed

You will be assessed by a combination of exams, coursework and class presentations, as well as a dissertation on an agreed topic.

How you will study

You will be taught through a range of lectures, seminars, presentations, tutorials and computer-based self-managed materials, in combination with laboratory exercises.

Who should study this programme?

Our MSc Internet Computing and Network Security is designed for students who are looking to gain the knowledge and skills needed to become effective specialist professionals within the computing industries.



Dora

MSc Ergonomics (Human Factors)

"The learning environment and the quality of teaching is excellent. I also love fact my peers come from very diverse academic and occupational backgrounds – they bring their unique knowledge and experiences to the classroom environment, which I really appreciate."



Design

Loughborough Design School is proud to be helping the next generation of designers and ergonomists develop truly life-changing products and services of the future.

The School has particularly close links with a range of world-class businesses and organisations, including:

- Adidas
- Cadbury
- Coca-Cola
- National Health Service (NHS)
- Met Office
- Hewlett Packard
- Rolls-Royce
- Ministry of Defence
- Ford Motor Company
- Jaguar Land Rover
- E.ON
- O2

Expert teaching and research
Our expertise and teaching is built on the design principles of aesthetics, technology and understanding the user. We offer eight postgraduate taught programmes and a range of research opportunities that are designed to help you develop your critical awareness, nurture innovative ideas and truly understand the role of design in the world around you.

Based in a £21 million state-of-the-art building, the School has a wealth of facilities, including access to specialist software, workshops and laboratories. Our research facilities include a fully-equipped ergonomics laboratory, eye-tracking devices, driving simulators, climatic chambers and additive manufacturing machines.

Our programmes

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Ergonomics in Health and Community Care	p120
Human Factors and Ergonomics for Patient Safety	p120
Human Factors for Inclusive Design	p121
Human Factors in Transport	p121
Integrated Industrial Design	p122
User Experience Design	p122

Research opportunities

PhD: 3 years full-time; 6 years part-time
MPhil: 2 years full-time; 4 years part-time

Entry requirements

A 2:1 honours degree or equivalent overseas qualification.

Fees

Band RB (see page 228 for details).

The Design School's ethos is the use of design to make improvements to the world.

Our academic staff are internationally renowned experts in their fields. They bring a diverse mix of specialisms and backgrounds to the School and can supervise PhDs or MPhils across all aspects of design.

Supporting you

We will provide you with everything you need to help ensure you have a great experience and are successful in your research. You will have the opportunity to become part of an exciting community of students, academic staff and researchers. Each student will have two supervisors and we will also provide IT equipment, including state-of-the-art design and ergonomics software; regular research seminars and training courses; opportunities to support undergraduate teaching; special tutor sessions in your first year; networking and career-focused opportunities; and student led initiatives to provide support throughout your studies.

How to apply

Projects that have funding attached (eg through research councils, university funding or industry sponsorship) are advertised on our online prospectus and do not require a research proposal.

For self-funded projects or those funded by third-party sponsors, you will need to provide a two-page research proposal that summarises the background of your intended research, the objectives, proposed methods, and what you hope the outcomes of your research might be. You should send this proposal to DS.PHD@lboro.ac.uk and discuss your topic with the Design School before applying.

Our areas of research

Our research is interdisciplinary, both within the School and across other academic departments at Loughborough. We welcome enquiries and applications from students whose research falls into one of our research groups or these cross-disciplines.

Transport Safety Research Group

This group focuses on key aspects of transport safety improvement for all transport users, designers and policy makers.

Design Ergonomics Research Group

This group designs ergonomic products and concepts that impact industry and end users, making a positive difference to people's lives.

Design for Digital Fabrication Research Group

Our Digital Fabrication Research Group focuses on designing and using automated programs in the manufacturing process through additive manufacturing, CAD software and 3D printing.

Design Practice Research Group

This group concentrates on the methods, tools, techniques and processes of design and designing.

Environmental Ergonomics Research Group

Our Environmental Ergonomics Research Group highlights the interaction between people and their surrounding environment, replicating environment conditions to test and research new products.

Human Factors in Complex Systems Research Group

This group explores how people, products and different technologies interact with one another to form complex systems.

Sustainable Design Research Group

This research group analyses how design can be used to improve the longevity of products and ultimately, reduce waste and emissions.

User Centred Design Research Group

Research focuses on putting the user at the centre of the design process to design new products, systems and services.

Centres for Doctoral Training

Centres for Doctoral Training (CDT) integrate three years of PhD study with one year of research training and have strong industrial links. The Design School is currently a partner in a number of Centres for Doctoral Training, offering a more industrially-focused PhD.

For more information about CDTs, please see lboro.ac.uk/pg2019/cdt

Taught programmes

Design for Additive Manufacture

MSc

Full-time length: 1 year

Part-time length: not available

Entry requirements

An honours degree (2.1 or above) or an equivalent overseas qualification in a relevant subject. Additional entry requirements apply. Please see website for more details.

Fees

Band 3 (see page 228 for details).

Programme overview

Our MSc Design for Additive Manufacture covers key areas of digital design and fabrication, including additive manufacture (3D printing), 3D scanning and advanced computer-aided design (CAD).

The programme is designed to help strengthen your knowledge and skills in the current and emerging technologies within the field of digital design and fabrication, specifically additive manufacture. You will also be introduced to other supporting enabling technologies such as 3D scanning and advanced CAD.

You will develop skills and competencies in both the creative and analytical aspects of design for additive manufacture whilst working on a diverse range of projects. You will design artefacts that aim to serve a purpose and are viable in terms of cost and manufacturability.

Modules

Modules studied may include: Design Research Methods; Industrial Design and Technology Skills; Design for Commercialisation; Additive Manufacturing Technology; Digital Fabrication Skills; Advanced 3D CAD; Design for Additive Manufacture – Research Project.

How you will be assessed

Assessments include a combination of coursework and exams, and may also include individual/group presentations.

How you will study

You will study through a range of seminars, lectures, tutorials, independent study, group work, practical sessions and workshops.

Who should study this programme?

Our MSc Design for Additive Manufacture is ideal for graduates and industry professionals, such as industrial and product design. It will improve your effectiveness as a designer within industry and advance your knowledge and specialist skills.

Ergonomics (Human Factors)

MSc/Diploma/PG Certificate

Full-time length: 1 year

Part-time length: 3 years

Entry requirements

An honours degree (2:1 or above) or equivalent overseas qualification in a relevant discipline or closely related subject.

Fees

Band 3 (see page 228 for details).

Programme overview

Our MSc Ergonomics (Human Factors) examines how best to ensure a good fit between people, their actions, the objects they use and the environments which they occupy. You will apply theoretical principles, data and methods to ensure that design is optimised for human well-being and overall system performance.

The programme is professionally recognised by the Chartered Institute of Ergonomics and Human Factors (CIEHF), which is affiliated with the International Ergonomics Association.

You will benefit from teaching provided by world-leading academics, industry experts and specialists in each area to ensure that you are trained to the highest professional standard.

Modules

Compulsory modules may include: Introduction to Ergonomics; Human Factors and Systems; Human Function; Environmental Ergonomics; Physical Health at Work; Data Collection and Analysis; Human Computer Interaction; Project Module (Dissertation).

Optional modules may include: Disability, Ageing and Inclusive Design; Transport Safety; Healthcare Ergonomics and Patient Safety.

How you will be assessed

Assessment may include individual reports, group evaluations, group presentations, open book tests, class tests, critiques, coursework, a dissertation and a viva.

How you will study

Each module is block taught over a one-week intensive period at Loughborough. Outside of this time you will be expected to complete prepared programme materials and assignments. We will provide you with access to an interactive online system with additional materials and information, and to remotely participate in tutorial-type discussions.

Who should study this programme?

Our MSc Ergonomics (Human Factors) is suitable for students looking to develop a general understanding of ergonomics across a range of sectors. Past students have joined us from a wide range of backgrounds, including industrial design, health sciences, human physiology, kinesiology, occupational therapy, physiotherapy, psychology and branches of engineering.

Ergonomics in Health and Community Care

MSc/Diploma/PG Certificate

Full-time length: 1 year

Part-time length: up to 4 years

Entry requirements

An honours degree (2:1 or above) or equivalent overseas qualification in a relevant discipline or closely related subject.

Fees

Band 3 (see page 228 for details).

Programme overview

Our MSc Ergonomics in Health and Community Care provides a broad ergonomics education to suit the requirements of health professionals. Teaching focuses on the promotion of healthy and safe working across public and domestic environments.

The programme examines how best to ensure a good fit between people, their actions, the objects they use and the environments which they occupy. You will apply theoretical principles, data and methods to ensure that design is optimised for human well-being and overall system performance.

Ergonomics in Health and Community Care is professionally recognised by the Chartered Institute of Ergonomics and Human Factors (CIEHF), which is affiliated with the International Ergonomics Association.

Modules

Modules studied may include: Introduction to Ergonomics; Human Function; Human Factors and Systems; Physical Health at Work; Data Collection and Analysis; Disability, Ageing and Inclusive Design; Healthcare Ergonomics and Patient Safety; Patient Handling; Project Module (Dissertation).

How you will be assessed

Assessment may include individual reports, group evaluations, group presentations, open book tests, class tests, critiques, coursework, a dissertation and a viva.

How you will study

Each module is block taught over a one-week intensive period at Loughborough. Outside of this time you will be expected to complete prepared programme materials and assignments. We will provide you with access to an interactive online system with additional materials and information, and to remotely participate in tutorial-type discussions.

Who should study this programme?

Our MSc Ergonomics in Health and Community Care is suitable for students looking to develop a general understanding of ergonomics to suit the requirements of health professionals. Past students have joined us from a wide range of backgrounds, including health sciences, nursing, medical practice, manual handling advisers, human physiology, kinesiology, occupational therapy, physiotherapy and psychology.

Human Factors and Ergonomics for Patient Safety

MSc

Full-time length: 1 year

Part-time length: 3 years

Entry requirements

An honours degree (2:1 or above) or equivalent overseas qualification in a relevant discipline or closely related subject.

Fees

Band 3 (see page 228 for details).

Programme overview

Our MSc Human Factors and Ergonomics for Patient Safety provides an insight into human factors, focusing on the promotion of patient safety in the healthcare sector. It also concentrates on investigations relevant to understanding and intervening in these situations, with the view to improving conditions for those exposed.

The programme examines how best to ensure a good fit between people, their actions, the objects they use and the environments which they occupy. You will apply theoretical principles, data and methods to ensure that design is optimised for human well-being and overall system performance.

This master's is professionally recognised by the Chartered Institute of Ergonomics and Human Factors (CIEHF), which is affiliated with the International Ergonomics Association.

Modules

Modules studied may include: Introduction to Ergonomics; Human Function; Physical Health at Work; Disability, Ageing and Inclusive Design; Data Collection and Analysis; Human Factors and Systems; Healthcare Ergonomics and Patient Safety; Human Computer Interaction; Project Module (Dissertation).

How you will be assessed

Assessment may include individual reports, group evaluations, group presentations, open book tests, class tests, critiques, coursework, a dissertation and a viva.

How you will study

Each module is block taught over a one-week intensive period at Loughborough. Outside of this time you will be expected to complete prepared programme materials and assignments. We will provide you with access to an interactive online system with additional materials and information, and to remotely participate in tutorial-type discussions.

Who should study this programme?

Our MSc is suitable for students looking to develop an understanding of ergonomics in relation to patient safety in the healthcare sector. Past students have joined us from a wide range of health disciplines and backgrounds, including health sciences, nursing, medical practice, human physiology, kinesiology, occupational therapy, physiotherapy and psychology.

Human Factors for Inclusive Design

MSc

Full-time length: 1 year

Part-time length: 3 years

Entry requirements

An honours degree (2:1 or above) or equivalent overseas qualification in a relevant discipline or closely related subject.

Fees

Band 3 (see page 228 for details).

Programme overview

Our MSc Human Factors for Inclusive Design provides an understanding of human factors, with a focus on human requirements and design applications, including systems, workplaces, artefacts, and information and communications devices.

The programme examines how best to ensure a good fit between people, their actions, the objects they use and the environments which they occupy. You will apply theoretical principles, data and methods to ensure that design is optimised for human well-being and overall system performance.

This master's is professionally recognised by the Chartered Institute of Ergonomics and Human Factors (CIEHF), which is affiliated with the International Ergonomics Association.

Modules

Modules studied may include: Introduction to Ergonomics; Human Function; Physical Health at Work; Disability, Ageing and Inclusive Design; Data Collection and Analysis; Human Factors and Systems; Human Computer Interaction; Environmental Ergonomics; Project Module (Dissertation).

How you will be assessed

Assessment may include individual reports, group evaluations, group presentations, open book tests, class tests, critiques, coursework, a dissertation and a viva.

How you will study

Each module is block taught over a one-week intensive period at Loughborough. Outside of this time you will be expected to complete prepared programme materials and assignments. We will provide you with access to an interactive online system with additional materials and information, and to remotely participate in tutorial-type discussions.

Who should study this programme?

Our MSc is suitable for students looking to develop an understanding of human factors, focusing on human requirements and design applications. Past students have joined us from a wide range of academic disciplines and backgrounds, including industrial design, health sciences, human physiology, kinesiology, occupational therapy, physiotherapy, psychology and branches of engineering.

Human Factors in Transport

MSc

Full-time length: 1 year

Part-time length: 3 years

Entry requirements

An honours degree (2:1 or above) or equivalent overseas qualification in a relevant discipline or closely related subject.

Fees

Band 3 (see page 228 for details).

Programme overview

Our MSc Human Factors in Transport examines how best to ensure a good fit between people, the things they do, the objects they use, and the environments which they occupy. You will apply theoretical principles, data and methods to ensure that design is optimised for human well-being and overall system performance.

The programme is professionally recognised by the Chartered Institute of Ergonomics and Human Factors (CIEHF), which is affiliated with the International Ergonomics Association.

You will benefit from teaching provided by world leading academics, industry experts and specialists in each area to ensure that you are trained to the highest professional standard.

Modules

Modules studied may include: Introduction to Ergonomics; Human Function; Human Factors and Systems; Physical Health at Work; Data Collection and Analysis; Environmental Ergonomics; Transport Safety; Human Computer Interaction; Project Module (Dissertation).

How you will be assessed

Assessment may include individual reports, group evaluations, group presentations, open book tests, class tests, critiques, coursework, a dissertation and a viva.

How you will study

You will study through a range of seminars, lectures, tutorials, independent study, group work, practical sessions, supervision and workshops.

Who should study this programme?

This programme is suitable for students looking for an insight into human factors, with a focus on design and the use of vehicles within a systems context. Past students have joined us from a wide range of academic disciplines and backgrounds, including industrial design, branches of engineering, health sciences, human physiology, kinesiology, occupational therapy, physiotherapy and psychology.

Integrated Industrial Design

MSc

Full-time length: 1 year

Part-time length: not available

Entry requirements

An honours degree (2:1 or above) or equivalent overseas qualification in a related subject and evidence of at least a foundation in technology engagement. A portfolio providing evidence of experiential learning and/or practice at an appropriate standard is required.

Fees

Band 3 (see page 228 for details).

Programme overview

Our MSc Integrated Industrial Design will further develop your critical awareness of major industrial design practice, increasing your input capability and value to employers.

The programme encompasses the entire design process, starting from a design problem or opportunity and ending with a complete product that is fit for mass or batch production. It covers areas such as sketching, visual layouts, presentation techniques, qualitative and quantitative design research methods, enterprise and business, design for behaviour change, collaborative design, creating product design briefs, project management, advanced CAD application and design practice.

You will develop skills in producing a balanced portfolio of high quality designs and innovative thinking, enabling you to deal with complex and interrelated issues, both analytically and creatively.

The programme also provides you with the exciting opportunity to enter an international design competition and to participate in industry supported projects.

Modules

Modules studied may include: Industrial Design and Technology Skills; Digital Fabrication Skills; Group Project; Design Research Methods; Design for Behaviour Change; Business, Enterprise and Design; Integrated Industrial Design Major Project.

How you will be assessed

You will be assessed by coursework, including the submission of design projects and reports, and group and individual presentations.

How you will study

You will study through a range of seminars, lectures, tutorials, independent study, practical sessions, supervision and workshops.

Who should study this programme?

Our MSc Integrated Industrial Design is suited to graduates and professionals looking to advance their core design knowledge and specialist skills.

User Experience Design

MA

Full-time length: 1 year

Part-time length: up to 4 years

Entry requirements

An honours degree (2:1 or above) or equivalent overseas qualification. Most applicants have a design background but we consider students from a range of disciplines relevant to user experience design, including psychology, computer science and business studies. Additional entry requirements apply. Please see website for more details.

Fees

Band 1 (see page 228 for details).

Programme overview

Our MA User Experience Design aims to develop your critical awareness of major issues in interaction and user experience design and improve your effectiveness as a user-centred designer within industry. The content of the programme enables you to develop your skills and competencies in both the creative and analytical aspects of user experience whilst working on a diverse range of projects.

You will develop key skills in user experience design principles and practice, qualitative and quantitative design research methods, interactive screen based prototyping, interaction design, usability testing, service and social design, team working and project management.

Specialist eye tracking equipment and software is available to support usability evaluations. Audio visual equipment is available to support design research activities including state-of-the-art wearable cameras. You will also benefit from our computer facilities, including Macs with a wide range of design and UX software.

Modules

Modules studied may include: Experience Design; Usability: Principles and Practice; Design Research Methods; Design for Behaviour Change; Group Project; Service Design for Social Innovation; User Experience Design Major Project.

How you will be assessed

You will be assessed by coursework, including the submission of design projects and reports, and group and individual presentations.

How you will study

You will study through a range of seminars, lectures, tutorials, independent study, practical sessions, supervision and workshops.

Who should study this programme?

Our MA User Experience Design is aimed at students who are looking to further develop their effectiveness as user-centred designers within industry and develop their creative and analytical skills.



—
The Design School has great facilities and fantastic tutors who support you fully; it's like a home-from-home. Also, my modules have had industry engagement, allowing me to develop client-based interaction skills and create links with companies.
—



Ciara
PhD student

—
“The knowledge and expertise here is outstanding.
I am thrilled I’ve had the opportunity to study
at Loughborough University!”



REF 2014
95% OF RESEARCH
CLASSED AS
‘INTERNATIONALLY-
RECOGNISED’



GUARDIAN UNIVERSITY
GUIDE 2019
4TH IN THE UK FOR
GEOGRAPHY AND
ENVIRONMENTAL STUDIES

Geography and Environment

Geography and Environment offers a diverse portfolio of postgraduate teaching and research opportunities covering the full breadth of contemporary physical and human geography.

We are located inside a state-of-the-art research and teaching facility, complete with a river science laboratory, geospatial laboratory and several meteorological and hydrological field stations. The campus also has a 16-hectare research forest comprised of ancient and semi-natural woodland.

Each programme includes training and support to develop the key transferable skills and attributes required to continue into careers across a range of industries and sectors. On completion of their programme, many postgraduates have continued into roles with government agencies, not-for-profit organisations, the European Commission and the United Nations.

Inspiring research

Our academic staff are driving forward intellectual agendas in physical and human geography, as well as helping to shape national and international policy. This expertise ensures that the knowledge you are getting throughout your programme is at the cutting-edge of scientific research and focused on some of the most important issues in society today.

Our programmes

Research opportunities	p126
Environmental Monitoring for Management	p127
Globalization and Cities	p127
International Financial and Political Relations	p128



lboro.ac.uk/pg2019/geography

Research opportunities

PhD: 3 years full-time; 6 years part-time
MPhil: 2 years full-time; 3 years part-time

Entry requirements

An honours degree (2:1 or above) or equivalent overseas qualification in Geography or a related discipline.

Fees

Band RA (see page 228 for details).

Supporting you

You will be assigned two supervisors who provide academic guidance and pastoral support throughout your studies. We also offer an extensive programme of research training, seminars and discussion groups to help integrate doctoral researchers into our academic community.

You will be provided with access to a shared office with networked PCs and specialist software, our extensive library of over 10,000 maps and atlases, and a wide range of laboratory resources, field equipment and facilities to support physical geography research.

How to apply

Projects which have funding attached (eg through research councils, university funding or industry sponsorship) are advertised on our online prospectus and do not require a research proposal.

For self-funded projects or those funded by third-party sponsors, you should submit a research proposal with your application. This should be approximately three pages, with references, and include a summary of the research you wish to undertake. It is usually helpful to contact us in advance of applying to discuss your ideas.

Our areas of research

We have an excellent international reputation for our research across different areas of physical and human geography. In human geography some of the key themes our original research explores include migration, cities, education, and geographies of children, youth and families. In physical geography our research covers a wide range of cutting-edge topics including hydrological and ecosystem science, polar and alpine research, and the relationship between climate, water and energy.

We are currently leading a range of exciting research projects funded by major international research bodies and the UK Government that sit at the interface of physical and human geography to tackle real world global challenges.

Centres for Doctoral Training

Centres for Doctoral Training (CDT) in Geography and Environment provide three and half years of PhD study with a framework of targeted additional training, personal and professional development. We currently participate in the Central England NERC Training Alliance CDT, in partnership with the Universities of Birmingham, Leicester and Warwick, the Open University, the Centre for Ecology and Hydrology, and the British Geological Survey.

For more information, please see lboro.ac.uk/pg2019/cdt



Taught programmes

Environmental Monitoring for Management

MSc

Full-time length: 1 year

Part-time length: 2 years

Entry requirements

An honours degree (good 2:2 of 55% or above) or equivalent overseas qualification in geography or other science/engineering discipline.

Fees

Fee band 1 (see page 228 for details).

Programme overview

Our MSc Environmental Monitoring for Management focuses on the practical skills required for successful and sustainable environmental management.

The programme focuses on the dynamic nature of biological and physical environmental systems and through field, laboratory and analytical work, it teaches the practical and analytical techniques to assess and manage dynamic environmental systems. It emphasizes the practical challenge of measuring, analysing and evaluating dynamic data for environmental problem-solving and management.

We are located inside a state-of-the-art research and teaching facility, complete with a river science laboratory, geospatial laboratory and meteorological and hydrological field stations. The campus also has a 16-hectare research forest comprised of ancient and semi-natural woodland.

Modules

Modules studied may include: Professional Practice in Environmental Management; Natural Hazard and Catastrophe Modelling for Environmental Management; Applied Environmental GIS; Hydroclimatological Monitoring and Modelling; Evidence-Based Environmental Management; Research Design; Tools for River Management; Lake Monitoring and Management; Wind Erosion: Management and Measurement; Dissertation.

How you will be assessed

You will be assessed by exams, coursework, group work and a dissertation on an agreed topic.

How you will study

You will study through a range of seminars, lectures, tutorials, independent study, group work, practical sessions and field trips.

Who should study this programme?

Our MSc Environmental Monitoring for Management is aimed at those wishing to pursue a career in the environment sector in the UK or internationally, or those already working in the sector seeking to enhance their skills and employability.

Globalization and Cities

MSc

Full-time length: 1 year

Part-time length: not available

Entry requirements

An honours degree (2:1 or above) or equivalent overseas qualification in geography or other social sciences/humanities discipline.

Fees

Fee band 1 (see page 228 for details).

Programme overview

Our MSc Globalization and Cities explores the intersections of globalisation and urbanisation by examining the changing nature and roles of cities within wider processes of global transformation relating to the global economy, global culture and media, and international politics.

The programme critically evaluates theories, processes and outcomes of globalisation and globalised urbanisation, drawing on the strength of Loughborough University's research specialisms, notably its founding role in the establishment of the highly acclaimed Globalization and World Cities (GaWC) Research Network.

You will develop an understanding of contemporary globalisation and its relationship with urbanisation and issues relating to the global economy, global culture and media, and international politics. You will explore globalised urbanisation's local, regional, national and global impacts, and develop an awareness of the way forms of governance shape the political economy.

The MSc is relevant for a wide variety of careers within public, private or third sector companies, ranging from national and international businesses to city governments, urban consultancies and thinktanks, and non-governmental organisations.

Modules

Compulsory modules studied may include: Cities in Globalization; Globalization: Key Debates and Issues; Global Outsourcing and Offshoring of Services; Doing Global Research; Dissertation.

Optional modules may include: Global Communications; International Politics: Issues and Policies.

How you will be assessed

You will be assessed by exams, coursework, group work and a dissertation on an agreed topic.

How you will study

You will study through seminars, lectures, tutorials, independent study, group work and practical sessions.

Who should study this programme?

MSc Globalization and Cities has been designed for graduates, business professionals, government and voluntary sector employees, planners, teachers and local community representatives who are interested in extending their knowledge and skills in this field.

International Financial and Political Relations

MSc

Full-time length: 1 year

Part-time length: not available

Entry requirements

An honours degree (good 2:2 of 55% or above) or equivalent overseas qualification in geography or other social sciences/humanities discipline.

Fees

Fee band 1 [see page 228 for details].

Programme overview

Our MSc International Financial and Political Relations explores the intersection of finance, politics and international relations by examining the changing nature of financial systems, banking and regulation, and issues of governance.

The programme addresses the need for qualified specialists to provide basic and applied knowledge in the area of increasing globalisation of financial and political networks.

You will develop an understanding of processes of contemporary globalisation in relation to geographies of finance; an understanding of the relationship between financial systems, banking and regulation, and issues of governance; a detailed appreciation of the working of current banking and financial markets; and an awareness of the way forms of governance shape the political economy.

The MSc is an ideal multi-disciplinary grounding to inform business and policy practice or to pursue doctoral research in the social sciences.

Modules

Modules studied may include: Globalization: Key Debates and Issues; The Financial System; Governing Crises; Comparative Foreign Policy: Issues and Cases; International Politics: Issues and Policies; Doing Global Research; Developments in Financial Markets; Dissertation.

How you will be assessed

You will be assessed by exams, coursework, class presentations and a dissertation on an agreed topic.

How you will study

You will study through a range of seminars, lectures, tutorials, independent study and group work.

Who should study this programme?

Our MSc International Financial and Political Relations is suitable for graduates with an interest in the impact of developments in banking, financial globalisation and international political relations on international financial and political development.

—
“My advice for future students would be to try everything and don't be afraid to ask for help. The lecturers here are incredibly friendly and only want the best for their students, so if you need help or support, just ask.”
—





Geography and Environment

Delivering award-winning research with impact

Research led by Dr Sarah Mills, Reader in Human Geography, has shaped a House of Lords Report on Citizenship and Civic Engagement.

Dr Sarah Mills' award-winning research on youth citizenship has led her to Parliament. In 2017 she was invited to submit written and oral evidence to a House of Lords Select Committee on Citizenship and Civic Engagement. As an expert witness, Dr Mills provided evidence from an ESRC research project she led that explored National Citizen Service (NCS) – a UK Government funded youth programme launched in 2011.

Dr Mills spent three years exploring the Government's motivations behind, the voluntary sector's engagement with, and young people's experiences of NCS with Research Associate, Dr Catherine Waite.

The final Lords report published in 2018 included several recommendations to UK Government based on Dr Mills' research-based evidence.

"It's fantastic to see this House of Lords report acknowledging the contribution that young citizens make to society. The recommendations to improve National Citizen Service – as part of that journey – should have a real impact on young people's experiences of the programme", explains Dr Mills. "I'm delighted the Select Committee report drew on this research from Loughborough University to inform their recommendations to Government."

Dr Mills was awarded the Royal Geographical Society's (RGS) prestigious Gill Memorial Award in 2017 for her outstanding early career research in cultural geography. She has published widely on youth citizenship, informal education and volunteering, and is currently the Elected Chair of the Geographies of Children, Youth and Families Research Group of the RGS-IBG.

 lboro.ac.uk/pg2019/inspiringstories



Gianluca

PhD student

"The campus is amazing and feels like you're part of a big family. The working environment and people surrounding my research are very dynamic and stimulating."



Materials

The Department of Materials has contributed towards the success of Loughborough University's teaching and research excellence for almost half a century.

It offers outstanding teaching and learning facilities for postgraduates, including a refurbished and extended process and pilot plant area and the Loughborough Materials Characterisation Centre, which is one of the best suites of its kind in Europe. Students can also benefit from the £17 million STEMLab, offering advanced and up-to-date laboratories for students across a range of disciplines.

Quality research and teaching
The Department has led advancements in the field through teaching, research and enterprise

activities across seven key areas: energy materials, nano materials, biomaterials, processing, surface engineering, materials modelling and sustainability. The Department adopts an interdisciplinary approach to research and frequently interacts with other departments and schools on projects.

Teaching and research is shaped by the feedback and requirements of industry partners to ensure graduates are well-prepared for the ever-changing global job market. The Department's part-time study and short course provision is a particular example of this. Accreditation by the Institute of Materials, Minerals and Mining (IOM3) facilitates progression towards professional chartered status (CEng) after a period of relevant graduate-level employment.

Our programmes

Research opportunities	p134
Materials Science and Technology	p135
Polymer Science and Technology	p135

Research opportunities

PhD and EngD: 3 years full-time; 6 years part-time

MPhil: 2 years full-time; 4 years part-time

Entry requirements

An honours degree (2:1 or above) or equivalent overseas qualification in a related subject.

Fees

Band RB (see page 228 for details).

As a research student in the Department of Materials, you will have the opportunity to not only become an independent researcher but create a lasting network of peers. Attendance at relevant conferences is encouraged with bursaries for travel made available on a competitive basis.

Supporting you

You will be assigned a supervisory team who, together with the Director of Doctoral Programmes, provides academic and pastoral support. Training and departmental seminars will help you to develop your skills and you will be expected to present your own research papers. You will be provided with your own desk and computer in a shared departmental office, with access to library, IT and state-of-the-art laboratory facilities.

How to apply

Projects which have funding attached (eg through research councils, university funding or industry sponsorship) are advertised on our online prospectus and do not require a research proposal.

For self-funded projects or those funded by third-party sponsors, you should indicate the research group with which you would like to study and preferably the member(s) of staff whose area is of most interest. A detailed research proposal can be included with the application but is not necessary.

Our areas of research

Advanced Materials

Our advanced materials research supports a wide range of industrially relevant applications by understanding, designing and engineering the structure of a material from the atomistic to macro-scale and correlating with the material's mechanical and functional properties, chemical composition and processing conditions. Examples include: microstructural evolution of superalloys and steels in extreme service conditions; precipitation effects in steels, stainless steels and aluminium alloys; ultra-high strength nano-quasicrystalline and nano-fibril alloys and composites; functional ceramic nanomaterials for energy conversion and storage; surface engineering, such as hydrophobic/icephobic surfaces; advanced metals and ceramics

at extreme conditions; ceramics for bio-medical applications; solar hydrogen generation and solar cells; nuclear materials, including ceramic composites, graphite and high entropy alloys; armour ceramics; and understanding materials damage.

Soft Matter

Precise control and fine-tuning of properties in polymeric materials is the main focus of our soft matter research, dealing with a vast array of macromolecules from their synthesis to their interactions at a microscopic level. Some examples include: biodegradable polymers; polymer weathering and degradation; surface polymerisation and thin films; incorporation of plant extracts; self-assembly of functional polymers, polymer colloids and nanocomposites; and polymers from renewable resources.

Processing

Our processing research area studies and develops many techniques and operations to convert a material from an 'as formed' state to a finished article. This covers the full spectrum of materials types and includes activities such as: polymer processing; electroplating and corrosion protection; ceramic sintering processes; porous membrane development; electrospinning; and additive manufacturing.

Technique Development

This area involves some key enabling fields of research that cross-cut our other activities. We have expertise in materials modelling and characterisation techniques and are finding better ways to characterise, model and predict material structures and properties. Some examples include: understanding microstructural evolution, particularly to predict life expectancy of high-temperature materials in service; predict the growth of thin film materials under different growth conditions; understand what factors control the degradation of bioactive glasses implanted into the body; model the damage mechanisms and the evolution of damage in materials for use in nuclear power production; three-dimensional microstructural characterisation; in-situ heating to replicate in-service conditions of materials; and micro-mechanical testing to provide input data and validation of mathematical models.

Centres for Doctoral Training

Centres for Doctoral Training (CDT) provide four years of industrially supported, integrated PhD study with a framework of targeted additional training, personal and professional development.

The School currently participates in the Carbon Capture and Storage and Cleaner Fossil Energy centre, in partnership with the Universities of Nottingham and Birmingham.

For more information about CDTs, please see lboro.ac.uk/pg2019/cdt

Taught programmes

Materials Science and Technology

MSc/Diploma/PG Certificate

Full-time length: 1 year

Part-time length: 2-5 years

Entry requirements

An honours degree (2:2 or above) or equivalent overseas qualification in a science or engineering subject.

Fees

Band 3 (see page 228 for details).

Programme overview

Our MSc Materials Science and Technology is designed to meet the requirements of industry, where qualified materials scientists and engineers are highly sought after.

The programme spans the major classes of engineering materials used in modern high technology manufacturing and industry. The knowledge and skills gained can be applied to a wide range of industrial sectors including aerospace, automotive, power generation and distribution, IT, and general manufacturing.

The programme is accredited by the Institute of Materials, Minerals and Mining (IOM3), allowing you to progress towards professional chartered status (CEng) after a period of relevant graduate-level employment.

Modules

Compulsory modules studied may include: Advanced Characterisation Techniques; Surface Engineering; Ceramics: Processing and Properties; Design with Engineering Materials; Sustainable Use of Materials; Metals: Processing and Properties; MSc Project.

Optional modules studied may include: Plastics Processing Technology; Industrial Case Studies; Materials Modelling.

How you will be assessed

You will be assessed by written exams, set coursework exercises, laboratory reports and a dissertation which includes a literature review and oral presentation.

How you will study

You will study through a range of lectures, independent study, group work, practical sessions, supervision and workshops.

Who should study this programme?

Our MSc Materials Science and Technology is suitable for graduates who are looking to further their understanding of a broad range of significant industrial materials used across key engineering sectors.

Polymer Science and Technology

MSc/Diploma/PG Certificate

Full-time length: 1 year

Part-time length: 2-5 years

Entry requirements

An honours degree (2:2 or above) or equivalent overseas qualification in a science or engineering subject.

Fees

Band 3 (see page 228 for details).

Programme overview

Our MSc Polymer Science and Technology will give you a broad understanding of this area of material science, with a focus on the underlying properties of polymers in relation to their utilisation in industrial applications.

The programme covers the latest science and technology of plastics, rubbers and composites, including aspects of nanotechnology and biomaterials. Lectures are supplemented by laboratory exercises, spanning chemical and physical characterisation, and compounding and processing technology experiments on pilot-scale laboratory equipment.

You will benefit from being taught by leading researchers and industrial experts, along with our state-of-the-art processing and analytical equipment, including those within our refurbished polymer processing laboratory. Our world-leading Loughborough Materials Characterisation Centre is also available for laboratory classes and major projects.

The programme has been designed to meet the requirements of industry and allow progression towards professional chartered status. It is fully accredited by the Institute of Materials, Minerals and Mining (IOM3).

Modules

Compulsory modules studied may include: Polymer Science; Polymer Process Engineering; Plastics and Composites Applications; Polymer Properties; Polymerisation and Polymer Blends; Polymer Characterisation; MSc Project.

Optional modules studied may include: Advances in Biomaterials; Rubber Compounding and Processing; Adhesive Bonding.

How you will study

You will study through a range of lectures, seminars, tutorials, independent study, group work, supervision, practical sessions and workshops.

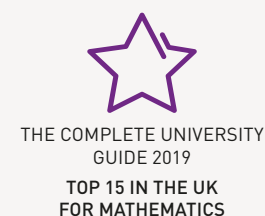
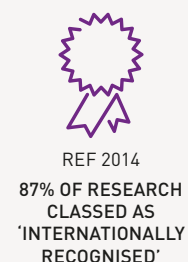
Who should study this programme?

Our MSc Polymer Science and Technology is suitable for graduates who are looking to gain an in-depth understanding of polymer science and technology.



Juliet
PhD student

"I am really interested to unravel new things – a PhD gives you a consistent creative ability and independence. I love it."



Mathematical Sciences

Loughborough's Department of Mathematical Sciences is committed to driving forward innovation across the teaching and research of both pure and applied mathematics. The Department attracts staff and students from all over the world, making it a diverse and stimulating environment in which to study.

Our taught postgraduate programmes aim to cater for students who do not necessarily have a first degree in single honours mathematics, giving a strong grounding in areas that are relevant to employment in a large number of sectors. The programmes reflect our strengths as a department and can offer established collaborative training ventures with industrial partners.

The Department of Mathematical Sciences is part of the London Mathematical Society's Good Practice Scheme, which supports mathematics departments interested in embedding equal opportunities for women within their working practices.

Excellent employment prospects
Graduates of our MSc programmes go on to work in diverse roles within a wide variety of organisations, including BAE Systems, Citigroup, Experian, GE Aviation, Mercedes Benz, Nuclear Labs USA, and PwC.

Research opportunities
Active in high-quality research across the broad spectrum of mathematics, the Department has an international reputation, with four-fifths of research rated internationally-leading (or better) in the Research Excellence Framework (REF) 2014. Research themes within the Department include dynamical systems, geometry and mathematical physics, global analysis and PDEs, linear and nonlinear waves, mathematical modelling, statistics, and stochastic analysis.

Part of the School of Science, staff and PhD students within the Department also contribute to four newly launched interdisciplinary research centres:

- Centre for Imaging Science
- Centre for the Science of Materials
- Centre for Geometry and Applications
- Interdisciplinary Centre for Mathematical Modelling.

Our programmes

Research opportunities	p138
Industrial Mathematical Modelling	p139
Mathematical Finance	p139

Research opportunities

PhD: 3 years full-time; 6 years part-time
MPhil: 2 years full-time; 4 years part-time

Entry requirements

An honours degree (high 2:1 or above) or equivalent overseas qualification in mathematics.

Fees

Band RA (see page 228 for details).

Supporting you

You will have at least two academic supervisors who will guide you in your research. You will also be provided with a desk, computer and photocopying facilities, and can apply for funds for conference attendance.

How to apply

Projects which have funding attached (eg through research councils, university funding or industry sponsorship) are advertised on our online prospectus and do not require a research proposal.

For self-funded projects or those funded by third-party sponsors, you do not need to submit a detailed research proposal with your application but please indicate which area of research you wish to pursue and/or names of staff members you are interested in working with.

Our areas of research

Dynamical Systems

This group studies a wide range of aspects of dynamical systems theory, such as Hamiltonian and dissipative dynamics, dynamical chaos in classical and quantum systems, dynamics of multi-scale systems, ergodic theory, random matrix theory, and bifurcation theory.

Geometry and Mathematical Physics

Dating back to Newton, Euler and Jacobi, the theory of integrable systems now plays a unifying role in mathematics bringing together algebra, geometry and analysis. The research of the group includes both classical and quantum integrable systems in relation to representation theory and special functions, as well as algebraic, differential and symplectic geometry.

Global Analysis and PDEs

The interests of the group include spectral and scattering theory on manifolds, regularity and existence of global solutions to pseudo-differential equations and boundary value problems, topological questions related to generalisations of the Atiyah-Singer index theorem, applications of theory of PDE to approximation theory, as well as other topics.

Linear and Nonlinear Waves

The group's interests are in wave motion in a variety of physical situations including geophysical fluid dynamics, water waves, solid mechanics, Bose-Einstein condensates, electromagnetism and acoustics. The group develop and apply exact, numerical, asymptotic and perturbation techniques to pursue research on linear and nonlinear waves with a focus on solitary waves and soliton theory, stochastic wave systems, wave generation, and diffraction and scattering by obstacles.

Mathematical Modelling

Members of the group apply a variety of techniques from applied mathematics to diverse problems in medicine, biology, fluid dynamics, materials and soft matter science. The biological systems studied range from intracellular processes to those at the scale of organisms and populations. The fluid flows studied range from environmental buoyancy-driven flows to technologically important micro- and nano-fluidic flows.

Stochastic Analysis

Stochastic analysis has been a main research area in probability theory in recent years and the trend is still increasing. In our group, the research topics include stochastic analysis, in particular interactions with analysis; stochastic methods in (nonlinear) partial differential equations and mathematical physics; stochastic dynamical systems; stochastic differential equations; stochastic partial differential equations; infinite-dimensional analysis; stochastic analysis on geometric spaces; Markov processes and Dirichlet forms; quantum stochastic analysis; rough path; Schramm Loewner evolution; and mathematics of finance.

Taught programmes

Industrial Mathematical Modelling

MSc

Full-time length: 1 year

Part-time length: not available

Entry requirements

An honours degree (2:1 or above) or equivalent overseas qualification in mathematics or an engineering or science subject with a high mathematical content.

Fees

Band 1 (see page 228 for details).

Programme overview

Our MSc Industrial Mathematical Modelling is designed to help you develop the mathematical modelling skills and techniques highly sought after within industry and commerce.

The programme enables you to explore mathematical models of real world processes and their formulation, with a strong emphasis on how these techniques can be applied in industry. You will work in small groups to solve real life problems using these models.

You will also develop skills to solve partial differential equations and learn the basic principles behind the finite element method, which is heavily used in industry for solving structural problems.

Modules

Modules studied may include: Mathematical Modelling; Regular and Chaotic Dynamics; Programming and Numerical Methods; Advanced Reliability, Availability and Maintainability; Elements of Partial Differential Equations; Static and Dynamic Optimisation; Fluid Mechanics.

A highlight of this industry-focused programme is your summer project, which is often carried out in a local company.

How you will be assessed

You will be assessed by a combination of exams, reports, individual and group projects, and presentations. You will spend approximately 14 weeks over the summer working on an individual project, either in an industrial or engineering company, or at the University.

How you will study

You will study through a range of lectures, seminars, tutorials, group work and individual study.

Who should study this programme?

Our MSc Industrial Mathematical Modelling is especially suitable for those with an undergraduate degree in mathematics, science or engineering who are looking either to continue onto doctoral study or to use their enhanced skills in industry.

Mathematical Finance

MSc

Full-time length: 1 year

Part-time length: up to 4 years

Entry requirements

An honours degree (2:1 or above) or equivalent overseas qualification in a subject with a high mathematical content.

Fees

Band 1 (see page 228 for details).

Programme overview

Our MSc Mathematical Finance will give you with the skills needed to succeed within finance or to pursue a research career in stochastic analysis, financial mathematics and other relevant areas. It will provide you with the strong mathematical skills, computational techniques and finance background necessary to work in the finance sector but may also open up careers in investment banking, hedge funds, insurance companies and the finance departments of large corporations.

You will undertake core modules in stochastic analysis and measure theory, while also choosing optional modules covering wide-ranging topics of interest, including corporate finance, functional analysis and asset management.

You will benefit from our computing laboratory, with a dedicated IT team to help you with any computing queries, and our £4 million refurbished department building, which has a spacious student activity area and dedicated state-of-the-art resources.

Modules

Compulsory modules studied may include: Introduction to Measure Theory and Martingales; Stochastic Models in Finance; Stochastic Calculus and Theory of Stochastic Pricing; Research Project.

Optional modules may include: Programming and Numerical Methods; Regular and Chaotic Dynamics; Financial Economics; Functional Analysis; Elements of PDEs; Lie Groups and Lie Algebras; Static and Dynamic Optimisation; Asset Management and Derivatives; Corporate Finance.

You will spend 14 weeks at the end of the programme devoted to an individual project.

How you will be assessed

You will be assessed by a combination of exams, coursework and group work.

How you will study

You will study through a range of lectures, tutorials, seminars, group work and individual study.

Who should study this programme?

Our MSc Mathematical Finance is ideal for graduates wishing to develop mathematical skills and techniques relevant to careers in the finance sector.



Theresa

PhD student

*"Loughborough's facilities and equipment
are the gold standard!"*



REF 2014

85% OF RESEARCH RATED
'INTERNATIONALLY
RECOGNISED' OR HIGHER



MATHEMATICS WITH
QUALIFIED TEACHER
STATUS RATED
'OUTSTANDING' BY OFSTED

Mathematics Education Centre

The Mathematics Education Centre is one of the largest mathematics education research groups in the UK.

In the latest Research Excellence Framework (REF), 85% of the Centre's research activity was judged to be 'world-leading' or 'internationally-excellent', putting its research quality amongst the highest of all education departments in the UK.

Academics from the Mathematics Education Centre have won national and international awards for their research and research-informed teaching practices. Together the Centre's staff lead a lively group of PhD students from across the globe.

The Centre's facilities are set within the refurbished Schofield Building at the heart of Loughborough's campus. These include the Schofield Cognition Lab, a child-friendly laboratory for conducting experimental or observational studies with young children, and an eye-movement lab equipped with a state-of-the-art eye-tracker.

The Centre's research explores the fundamental processes involved in learning mathematics, as well as the design and evaluation of innovative pedagogy. The staff enjoy connecting with other specialists across the country, and run monthly research workshops which attract academics and researchers throughout the region.

Our programmes

Research opportunities p142

Mathematics with Qualified Teacher Status p143



lboro.ac.uk/pg2019/mec

Research opportunities

PhD: 3 years full-time; 6 years part-time
MPhil: 2 years full-time; 4 years part-time

Entry requirements

An honours degree (2:1 or above) or equivalent overseas qualification in mathematics, education, psychology or a related discipline. It would be an advantage in some cases to have an MA/MSc in mathematics education, educational/psychological research methods or in a related discipline.

Fees

Band RA (see page 228 for details).

Supporting you

You will have access to lectures and workshops with international visitors and a wide range of research seminars. Your supervisor(s) will guide you through the research process and you will have full access to all research facilities, and library and IT services.

How to apply

Projects which have funding attached (eg through research councils, university funding or industry sponsorship) are advertised on our online prospectus and do not require a research proposal.

All applicants must submit the following to accompany their application:

- a one-page CV summarising relevant experience and skills
- a one-page cover letter describing their reasons for wishing to undertake research in their chosen area and the personal qualities they will bring
- a two-page essay on one or more issues affecting teaching/learning in mathematics and related to your proposed area of research. This should be a specially constructed piece of writing, making reference to relevant academic literature.

For self-funded projects or those funded by third-party sponsors, in addition to the above requirements, please indicate on your application the area in which you would like to study and the person with whom you would like to work, if appropriate. You are strongly encouraged to contact this person ahead of making an application to discuss your interests and possible research topics.

Our areas of research

Culture, Pedagogy and Identity

The Culture, Pedagogy and Identity Interest Group has expertise in the analysis of existing pedagogical practice, in the design and evaluation of novel practices, and in the research-based promotion of teaching development. Of particular interest to the group are the mechanisms by which students' mathematical identity is shaped by their university experiences and the ways in which the practices of university-level mathematics influences teaching and learning.

Mathematical Cognition

The Mathematical Cognition Interest Group focuses on understanding the processes by which students come to understand mathematical ideas. Academics in this group have specific strengths in numerical cognition and mathematical reasoning. Recent externally funded research projects have included work on the nature and cause of dyscalculia, on the 'approximate number system' and its links to formal mathematics achievement, on the relationship between studying mathematics and reasoning skills, and on the ways in which experts and novices read mathematical proofs.

Taught programmes

Mathematics with Qualified Teacher Status

PGCE/MSc with QTS

PGCE: 1 year full-time

MSc with QTS: 1 year full-time PGCE plus additional part-time modules

Entry requirements

A UK honours degree or equivalent overseas qualification, which has at least 50% mathematics. Degrees with less mathematics content may be considered. Please see website for full details.

Fees

Band 1 (see page 288 for details).

Programme overview

Our Mathematics with Qualified Teacher Status programme prepares future teachers to engage and motivate secondary school students to be mathematical thinkers, not just learners.

The programme is practically based, with 24 weeks spent in our partner schools. University weeks have half a day on General Professional Studies and two full days on Mathematics Education. Work is set to be done on the remaining days of the week, which will feed in to the Mathematics Education sessions.

In accordance with current government requirements, all applicants must be interviewed to assess their potential for teaching before a place can be offered. Recent experience of working with young people would be valuable, as would having had at least three full days' experience in a state secondary school, although these are not requirements.

Our PGCE has been judged 'outstanding' on three occasions by Ofsted and has had excellent reports from External Examiners.

Modules

For module information, and to view the sample calendar for PGCE students, please see our website.

How you will be assessed

You will be assessed through a variety of methods, including written assignments and a group presentation.

How you will study

You will study through a range of lectures, seminars, practical sessions and group work.

Who should study this programme?

Our Mathematics with Qualified Teacher Status programme is ideal preparation for a career teaching mathematics. It is designed to develop the thinking behind your teaching, as well as the skills involved with being an excellent teacher of maths.



Guy
PhD student

"The university has pushed me to take on a more professional approach to both study and sport and inspired a great level of commitment and drive to do the best I can."



Mechanical, Electrical and Manufacturing Engineering

The School of Mechanical, Electrical and Manufacturing Engineering is a leader in technological research and innovation, with extensive national and international connections to industry.

The School has a number of laboratories offering the latest equipment and industry-standard software. The laboratories cater for students interested in dynamics and control, automation, fluid mechanics, electrical power generation, renewable energy and energy storage, healthcare engineering, internal combustion engines, materials, mechatronics, radio engineering, metrology, optical engineering, additive manufacturing, structural integrity, thermodynamics and much more.

Industry leading teaching

The School supports the technical and commercial needs of society and extends the boundaries of current knowledge. A number of programmes are accredited by one or more professional bodies, including the Institution of Engineering and Technology (IET), the Institution of Mechanical Engineers (IMechE), the Institute of Measurement and Control (InstMC), the Royal Aeronautical Society, and the Energy Institute.

Graduates of these programmes are highly sought after by industry and commerce worldwide, and have gone on to work with companies including Accenture, Airbus, BAE Systems, Caterpillar, Cisco, EDF Energy, E.ON, Ford Motor Company, Hewlett Packard, Huawei, IBM, Jaguar Land Rover, Mitsubishi, Rolls-Royce, Siemens AG, and Tata Steel.

Our programmes

Research opportunities	p146
Advanced Manufacturing Engineering and Management	p147
Digital Communication Systems	p147
Electronic and Electrical Engineering	p148
Engineering Design	p148
European Master's in Renewable Energy	p149
Mechanical Engineering	p149
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Research opportunities

PhD: 3 years full-time; 6 years part-time
MPhil: 3 years full-time; 4 years part-time

Entry requirements

An honours degree (2:1 or above) or equivalent overseas qualification in a relevant discipline. Applicants with a 2:2 will be considered with a master's degree (merit or above) or overseas equivalent. For all applicants, a relevant master's degree and industry experience is advantageous and for some research projects, may be mandatory.

Fees

Band RB (see page 228 for details).

Supporting you

You will:

- work closely with a supervisory team with expertise in your chosen research area
- follow a structured induction programme
- be given a computer, inter-library loan facilities and a dedicated doctoral researcher space
- engage with practical training, research seminars and conferences.

You will also have opportunities to engage with student committees, apply for conference and travel grants, and support undergraduate teaching.

How to apply

Projects which have funding attached (eg through research councils, university funding or industry sponsorship) are advertised on our online prospectus and do not require a research proposal.

For self-funded projects or those funded by third-party sponsors, your application should include a research proposal outlining why you have chosen the topic and the aims, objectives and methodology. You are strongly encouraged to discuss your proposal with academic staff prior to submission.

Our areas of research

Materials and Measurement

We undertake multi-disciplinary research into the response of advanced engineering and bio-materials to various types of external loading and environmental conditions. We are active in all areas of optics and laser technology, employing high-power laser applications, manufacture of components and high-precision non-contact measurement of dynamic movements.

Dynamics and Thermofluids

This internationally recognised group works in the fields of dynamics, tribology, thermodynamics, combustion, heat transfer and fluid mechanics. Research has a strong emphasis on the fundamentals and application

of advanced computational modelling and optical diagnostic methods relevant to the automotive, engine, powertrain, power, environmental and medical industries. We have major partnerships with global companies and play a leading role in shaping government strategy.

Automation and Control

This group is addressing the evolution that engineering and manufacturing processes will experience due to greater digitalisation and Industry 4.0. This high-impact research involves automation, control systems, human-machine interaction, modelling-simulation, robotics and virtual/augmented reality. We are proud to be one of Airbus' preferred research and technology university partners.

Communications

We cover a wide range of activities in all aspects of modern communication systems including 5G networks. Particular strengths include antennas, signal processing, network security, mobile and wireless communications, Internet of Things, machine learning, metamaterials, bioacoustics, biomedical electronics and microwave measurements.

Systems

This multi-disciplinary research group has strengths in manufacturing ICT tools, design research, sports technology, systems engineering and technology, and operations management.

High Value Manufacturing

We address leading edge, next generation manufacturing processes (bio-manufacturing, laser processing and additive manufacturing), manufacturing technologies (automation, robotics and digital manufacturing), organisation and sustainability.

Energy and Power

Energy engineering is a core strength of the Department, exploring energy generation, storage, transmission, utilisation and energy systems management through to energy delivery and utilisation in powertrain activities.

Centres for Doctoral Training

Centres for Doctoral Training (CDT) integrate three years of PhD study with one year of research training and have strong industrial links. The Department currently participates in three centres:

- EPSRC Centre for Doctoral Training in Embedded Intelligence
- EPSRC Doctoral Training Centre for Regenerative Medicine
- EPSRC Centre for Doctoral Training in New and Sustainable PV.

For more information, please see lboro.ac.uk/pg2019/cdt

Taught programmes

Advanced Manufacturing Engineering and Management

MSc

Full-time length: 1 year
Part-time length: 2-8 years

Entry requirements

An honours degree (2:1 or above) or equivalent overseas qualification in a relevant engineering discipline. Please see website for full details.

Fees

Band 3 (see page 228 for details).

Programme overview

Our MSc Advanced Manufacturing Engineering and Management prepares you for an effective career as a technologist or manager who can meet the engineering, business and societal challenges of rapidly changing global manufacturing markets and industries.

You will benefit from industry informed modules and access to a range of state-of-the-art equipment. Our computer labs are open 24 hours a day, 7 days a week and include some of the latest industry standard software, including STAR-CCM and CAD. You will also have access to our high-tech laboratories devoted to a range of engineering study areas: dynamics and control, electronics, fluid mechanics, materials, mechatronics, metrology, optical engineering, structural integrity, and thermodynamics.

The programme is accredited by The Institution of Mechanical Engineers (IMechE) and The Institution of Engineering and Technology (IET).

Modules

Modules studied may include: Innovation Process and Entrepreneurship in Engineering; Engineering for Sustainable Development; Manufacturing Processes and Automation; Introduction to Additive Manufacturing; Biological Manufacturing; Manufacturing System and Process Modelling; Engineering Management and Business Studies; Lean and Agile Manufacture; Major Project.

How you will be assessed

You will be assessed by exams, coursework, class presentations and a dissertation.

How you will study

You will study through a range of lectures, tutorials, independent study and practical sessions.

Who should study this programme?

Our MSc Advanced Manufacturing Engineering and Management is aimed at graduates and engineering professionals who wish to develop knowledge and skills of manufacturing management and their application to wide-ranging manufacturing technologies.

Digital Communication Systems

MSc

Full-time length: 1 year
Part-time length: not available

Entry requirements

An honours degree (2:1 or above) or equivalent overseas qualification in electronic/electrical engineering, computer engineering, physics or a related applied science. Please see website for full details.

Fees

Band 3 (see page 228 for details).

Programme overview

Our MSc Digital Communications Systems provides the skills and knowledge needed to meet the high and increasing demand for digital communications engineers who can manage and develop the technologies of today's data-driven lifestyle.

You will benefit from access to our 3D-Printing Suite, Engineering Machine Workshop, and Electronics Laboratory. You will use industry standard software and hardware, including equipment provided by Texas Instruments, National Instruments, Anritsu and many other leaders in technology. There are also a range of anechoic chambers, including the largest microwave chamber at any UK university.

Modules

Compulsory modules studied may include: Fundamentals of Digital Signal Processing; Information Theory and Coding; Research Project; Project in Digital Communication Systems.

Optional modules may include: Communication Networks; Personal Radio Communications; Communication Channels; Digital Signal Processing for Software Defined Radio; Telecommunications Network Security; Mobile Network Technologies; Antennas; Multimedia over Networks.

How you will be assessed

You will be assessed by a combination of exams, coursework and class presentations, as well as a dissertation on an agreed topic.

How you will study

You will study through seminars, lectures, tutorials, independent study, group work, practical sessions, supervision and workshops.

Who should study this programme?

Our MSc Digital Communications Systems is aimed at graduates and industry professionals who wish to acquire in-depth knowledge of this key specialism to progress their careers.

Electronic and Electrical Engineering

MSc

Full-time length: 1 year

Part-time length: not available

Entry requirements

An honours degree (2:1 or above) or equivalent overseas qualification in electronic/electrical engineering, computer engineering or physics. Please see website for full details.

Fees

Band 3 (see page 228 for details).

Programme overview

Our MSc Electronic and Electrical Engineering provides a thorough knowledge of the principles and techniques of this field of engineering and has been developed in consultation with industry advisors.

The programme draws on the world-class research of the School and you will develop your own research skills through your individual research project, which is supported by an academic. The programme will also enable you to acquire practical and theoretical skills that are valued in industry.

You will benefit from access to Altera, Cadence, Mentor Graphics, and Xilinx; commercial programming tools (hardware and software) provided by Texas Instruments; full Wave Antenna chambers and microwave test equipment; VI visualisation systems; and state-of-the-art sports technology laboratories.

Modules

Compulsory modules may include: Sensors and Actuators; Programming Multi/Many-Core Systems; Embedded Software Development; Project.

Optional modules may include: Fundamentals of Digital Signal Processing; Communication Networks; Solar Power; Wind Power; Digital Signal Processing for Software Defined Radio; Mobile Network Technologies; Antennas; Engineering Applications; Radio Frequency and Microwave Integrated Circuit Design.

How you will be assessed

You will be assessed through written and practical exams, coursework, group assessments, laboratory assessments, and an individual research project, which includes a written report and a viva.

How you will study

You will study through a range of seminars, lectures, tutorials, independent study, group work, practical sessions, supervision and workshops.

Who should study this programme?

Our MSc Electronic and Electrical Engineering is suitable for recent graduates and engineers with experience of microelectronics, who have good mathematical ability.

Engineering Design

MSc

Full-time length: 1 year

Part-time length: 2-8 years

Entry requirements

An honours degree (2:1 or above) or equivalent overseas qualification in a relevant engineering discipline. Applicants who do not meet this requirement but who have appropriate industrial experience will be considered.

Fees

Band 3 (see page 228 for details).

Programme overview

Our MSc Engineering Design enables you to work effectively in an engineering design role, whether it concerns the design of products, processes or systems, at an overall or detail level.

The programme is designed to meet the challenges of the rapidly changing global market – the availability of well-designed products, processes and systems is the foundation of successful commercial enterprises. You will develop the technical and transferable skills highly sought after by industry or academic research.

Throughout the MSc, a balance of theory and practice is applied to the solving of real engineering design problems. All projects meet the product design requirements of one of our many co-operating companies.

Modules

Modules studied may include: Innovation Process and Entrepreneurship in Engineering; Engineering for Sustainable Development; Computer Aided Engineering; Structural Analysis; Engineering Design Methods; Engineering Management and Business Studies; Sustainable Product Design; Product Design and Human Factors; Major Project.

How you will be assessed

You will be assessed through a combination of coursework and written exams.

How you will study

You will study through a range of seminars, lectures, tutorials, independent study, group work, practical sessions, supervision and workshops.

Who should study this programme?

Our MSc Engineering Design is suitable for graduates who are looking to work effectively in an engineering design role, such as in the design of products, processes or systems, across a range of levels.

European Master's in Renewable Energy

MSc

Full-time length: 15 months

Part-time length: not available

Entry requirements

An honours degree (2:1 or above) or equivalent overseas qualification in any engineering or physical science discipline. Please see website for full details.

Fees

See website.

Programme overview

Our MSc European Master's in Renewable Energy is a collaborative programme offered by nine leading European universities and is administered by EUREC (The Association of European Renewable Energy Research Centres).

You will be taught about the latest advances in clean power developments and be equipped with the skills and knowledge to design and develop benign renewable energy technologies that can be implemented in countries around the world to reduce our fossil fuel emissions.

The programme is divided into three sections. In the first semester at Loughborough you will acquire a solid foundation in key renewable energy technologies. In the second semester you will specialise in a chosen technology at a partner university before then completing a six-month practical or research project.

Modules

Your first semester will be studied at Loughborough and modules studied may include: Solar Power; Wind Power; Biomass; Water Power.

Your second semester is undertaken at our partner universities and modules studied may include: Wind Energy (National Technical University of Athens); Grid Integration (University of Zaragoza); Photovoltaics (University of Northumbria); Solar Thermal (University of Perpignan); Ocean Energy (IST Lisbon); Sustainable Fuel Systems for Mobility (Hanze University of Applied Sciences).

How you will be assessed

Assessments at Loughborough during your first semester will include a combination of coursework and exams. Projects and placements studied in semester two may vary depending on the destination you choose.

How you will study

You will study through a range of seminars, lectures, tutorials, independent study and practical sessions.

Who should study this programme?

Our MSc European Master's in Renewable Energy is suitable for graduates who are looking to develop a firm technical background in the key renewable energy fields. The programme creates a context for energy and heat production, storage and use.

Mechanical Engineering

MSc

Full-time length: 1 year

Part-time length: 2-8 years

Entry requirements

An honours degree (2:1 or above) or equivalent overseas qualification in a relevant engineering discipline. Applicants who do not meet this requirement but who have appropriate industrial experience will be considered.

Fees

Band 3 (see page 228 for details).

Programme overview

Our MSc Mechanical Engineering is designed to meet the challenges of the rapidly changing global market – the availability of well-designed products, processes and systems is the foundation of successful commercial enterprises.

The programme will broaden your mechanical engineering knowledge by introducing you to new and modern subject areas, applications and practices, enabling you to develop the technical and transferable skills highly sought after by industry or academic research.

You will benefit from our high-tech laboratories devoted to dynamics and control, electronics, fluid mechanics, materials, mechatronics, metrology, optical engineering and high-power lasers, and structural integrity.

As a graduate of our MSc programme, you will be able to plan and monitor multi-disciplinary projects, appreciate the central role of design within engineering, demonstrate competence in using computer-based engineering techniques, analyse and understand complex engineering problems, and use team working skills and communicate effectively at an advanced technical level.

Modules

Modules studied may include: Innovation Process and Entrepreneurship in Engineering; Engineering for Sustainable Development; Computer Aided Engineering; Structural Analysis; Engineering Design Methods; Experimental Mechanics; Thermofluids; Simulation of Advanced Materials and Processes; Major Project.

How you will be assessed

You will be assessed through a combination of coursework and written exams.

How you will study

You will study through a range of seminars, lectures, tutorials, independent study, group work, practical sessions, supervision and workshops.

Who should study this programme?

Our MSc Mechanical Engineering is aimed at both graduates and engineering professionals who wish to develop advanced skills in engineering science, design and technology.

Mobile Communications

MSc

Full-time length: 1 year

Part-time length: not available

Entry requirements

An honours degree (2:1 or above) or equivalent overseas qualification in electronic/electrical engineering, computer engineering, physics or a related applied science.

Fees

Band 3 (see page 228 for details).

Programme overview

Our MSc Mobile Communications will equip you with the skills and knowledge needed to design and develop the next generation of mobile communications and wireless systems.

As new technologies emerge in this ever-expanding field, our programme will equip you with the essential formal theory and practical skills to support your long-term career development.

You will benefit from being supported by our 5G Research Centre (5GRC), whose work focuses on the future of mobile communications. You will also benefit from recent investment in software, our £17 million STEMLab (including a 3D Printing Suite), Engineering Machine Workshop, and Electronics Laboratory.

Modules

Modules studied include: Fundamentals of Digital Signal Processing; Personal Radio Communications; Information Theory and Coding; Communication Channels; Digital Signal Processing for Software Defined Radio; Mobile Network Technologies; Antennas; Research Project; Project in Mobile Communications.

How you will be assessed

You will be assessed by a combination of written exams, group work and coursework.

How you will study

You will study through a range of seminars, lectures, tutorials, independent study, group work, practical sessions, supervision and workshops.

Who should study this programme?

Our MSc Mobile Communications is suited to graduates who are looking to embark upon or advance a career in this fast-growing field.

Renewable Energy Systems Technology

MSc

Full-time length: 1 year

Part-time length: See MSc Renewable Energy Systems Technology (Distance Learning) listing

Entry requirements

An honours degree (2:1 or above) or equivalent overseas qualification in any engineering or physical science. Please see website for full details.

Fees

Band 3 (see page 228 for details).

Programme overview

Our MSc Renewable Energy Systems Technology is designed to prepare you for a career in the rapidly expanding global renewable energy sector.

The programme features practical, industry-focused content which is delivered by our internationally renowned academics, together with industrial experts. Each module is informed by our world-class research and the latest industry developments, ensuring that the programme maintains relevance in this rapidly-developing, global sector.

You will benefit from our world-class experimental and simulation laboratories for your project work and coursework assignments. Project work in the labs gives you a chance to work side-by-side with leading academics and researchers on industrially relevant problems.

Our MSc programme is fully accredited by major UK engineering institutions, including The Institution of Engineering and Technology (IET), the Institution of Mechanical Engineers (IMechE) and the Energy Institute.

Modules

Compulsory modules may include: Sustainability and Energy Systems; Solar Power; Wind Power 1; Biomass; Water Power; Integration of Renewables; Project.

Optional modules may include: Advanced Photovoltaics; Solar Thermal Systems; Energy Storage; Energy System Investment and Risk Management; Wind Power 2.

How you will be assessed

You will be assessed by a combination of written exams, group work and coursework.

How you will study

You will study through a range of seminars, lectures, tutorials, independent study, group work, practical sessions, supervision and workshops.

Who should study this programme?

Our MSc Renewable Energy Systems Technology is aimed at individuals looking for a practical, industry-focused programme which explores the principles and methods behind renewable energy production, distribution, economics and policy.

Renewable Energy Systems Technology (Distance Learning)

MSc

Full-time length: See MSc Renewable Energy Systems Technology listing

Part-time length: 2-8 years

Entry requirements

An honours degree (2:1 or above) or equivalent overseas qualification in any engineering or physical science. Please see website for full details.

Fees

See website.

Programme overview

Based on our renowned full-time MSc Renewable Energy Systems Technology, this distance learning programme is fully accredited by major UK engineering institutions, including The Institution of Engineering and Technology (IET), the Institution of Mechanical Engineers (IMechE) and the Energy Institute.

Our part-time programme offers flexibility in terms of place, pace and learning mode. You will benefit from access to our world-class experimental and simulation laboratories for the duration of your studies. Project work in the labs gives you a chance to work alongside leading academics and researchers on industrially relevant problems.

Our Centre for Renewable Energy Systems Technology (CREST) is renowned for its innovative learning methods which have been designed to fit around your other commitments, whilst ensuring that you have the best possible learning experience. Our learning and teaching resources are available online at any time and enable both full-time and distance learning students to achieve the same learning outcomes.

Modules

Compulsory modules may include: Sustainability and Energy Systems; Solar Power; Wind Power 1; Biomass; Water Power; Integration of Renewables; Project.

Optional modules may include: Advanced Photovoltaics; Solar Thermal Systems; Energy Storage; Energy System Investment and Risk Management; Wind Power 2.

How you will be assessed

You will be assessed by a combination of written exams, group work and coursework.

How you will study

You will study through a range of seminars, lectures, tutorials, independent study, group work, practical sessions, supervision and workshops.

Who should study this programme?

Our MSc Renewable Energy Systems Technology (Distance Learning) is aimed at individuals looking to progress their knowledge and skills in renewable energy systems technology, whilst maintaining other professional or personal commitments.

Systems Engineering

MSc

Full-time length: 1 year

Part-time length: 2-8 years

Entry requirements

An honours degree (2:1 or above) or equivalent overseas qualification in any science, technology, engineering or mathematical subject. Applicants who do not meet this requirement but who have appropriate industrial experience will be considered.

Fees

Band 3 (see page 228 for details).

Programme overview

Our MSc Systems Engineering has been designed in collaboration with industry to meet the challenge of interdependence between all kinds of sophisticated engineered systems.

You will benefit from the use of advanced visualisation techniques to enhance models and simulations of real world systems, including cockpit simulators to study pilot behaviour toward stress and the impact that this has upon their mental agility.

The programme emphasises model-based systems engineering, and you will gain an understanding of and use systems-based computer tools across all modules, including spreadsheets, MATLAB, LabView, System Architect, SysML toolsets, and Triz.

Our MSc programme is accredited by the Institute of Measurement and Control, The Institution of Engineering and Technology (IET), and the Royal Aeronautical Society.

Modules

Compulsory modules may include: Applied Systems Thinking; Systems Architecture; Group Project; Individual Project.

Optional modules may include: Sensors and Actuators for Control; Systems Design; Understanding Complexity; Modelling Simulation and Visualisation for Engineering; Engineering and Management of Capability; Innovation and Entrepreneurship in Engineering; Holistic Engineering.

How you will be assessed

You will be assessed by a combination of written exams, group work and coursework.

How you will study

You will study through a range of seminars, lectures, tutorials, independent study, group work, practical sessions, supervision and workshops.

Who should study this programme?

Our MSc Systems Engineering is aimed at graduates who have specialised in a traditional discipline and are looking to gain a greater understanding of the performance, behaviour and emergent properties of advanced technology and complex systems.

Telecommunications Engineering

MSc

Full-time length: 1 year

Part-time length: not available

Entry requirements

An honours degree (2:1 or above) or equivalent overseas qualification in electronic/electrical engineering, computer science/engineering, physics or a related applied science.

Fees

Band 3 (see page 228 for details).

Programme overview

Our MSc Telecommunications Engineering will equip you with the skills and knowledge needed to design and develop the next generation of telecommunication systems.

As fresh technologies emerge in this ever-expanding field, you will have the essential formal theory and insight needed to support a career in telecommunications. You will undertake projects as part of your course, utilising performance measurement equipment and a testbed to test the validity of your systems and detect possible network abuse. Alongside core theories, you will have the opportunity to specialise your knowledge through various optional modules on antennas, multimedia and communication networks, and information theory.

Modules

Compulsory modules may include: Fundamentals of Digital Signal Processing; Communication Networks; Information Theory and Coding; Telecommunications Network Security; Advanced Telecommunications Techniques; Telecommunications Project.

Optional modules may include: Personal Radio Communications; Communication Channels; Antennas; Multimedia over Networks.

How you will be assessed

You will be assessed by a combination of written exams, group work and coursework.

How you will study

You will study through a range of seminars, lectures, tutorials, independent study, group work, practical sessions, supervision and workshops.

Who should study this programme?

Our MSc Telecommunications Engineering is suited to graduates who want to develop or advance a career in the telecommunications industry.



—
“The academics involved in my programme are truly world-class. Each one of them are at the forefront of driving their research areas and the programme forward, which I find very inspiring and exciting!”
—



Joe
PhD student

"My PhD enables me to do exactly what I want to do and what I'm passionate about; it's interesting and the work I'm doing is new. Everyone is friendly and is always happy to help."



Physics

Advancing knowledge across the breadth of the physical sciences, Loughborough's Department of Physics is an international community of respected academic staff and students who are actively engaged with industry and cutting-edge research.

Our postgraduate students benefit from state-of-the-art physics laboratories within the University's £17 million STEMLab and £4 million refurbished Sir David Davies building. The Department focuses on the research of condensed matter and quantum physics, and is equipped with a range of experimental facilities, including pulsed laser deposition, atomic force microscopy, Raman scattering and X-ray diffraction, as well as our own campus observatory.

Our two research-focused MSc programmes combine taught modules with the opportunity to develop research skills and work on an extensive supervised research project alongside experts in the field.

Employment opportunities

Our Physics graduates are highly sought after and work in a range of industries and roles. Employers include the Ministry of Defence, DSTL, BAE Systems, BP, Rolls-Royce, and Intelligent Energy in roles such as Business Analyst, Physicist, Technical Manager and Financial Trader.

Research with impact

Impactful research is central to the culture of our Physics department with many of our staff actively engaged in both theoretical and applied research, industry projects and working closely not only with colleagues across the University's science and engineering departments but with collaborators across the world.

Part of the School of Science, staff and PhD students within the Department also contribute to four newly launched interdisciplinary research centres:

- Centre for Imaging Science
- Centre for the Science of Materials
- Centre for Geometry and Applications
- Interdisciplinary Centre for Mathematical Modelling.

Our programmes

Research opportunities	p156
Advanced Physics	p157
Physics of Materials	p157

Research opportunities

PhD: 3 years full-time; 6 years part-time
MPhil: 2 years full-time; 4 years part-time

Entry requirements

An honours degree (2:1 or above) or equivalent overseas qualification in physics or a related discipline.

Fees

Band RB (see page 228 for details).

Supporting you

You will be assigned supervisors with expertise in the selected research area, as well as opportunities to consult other departmental academic staff, if appropriate. We also provide departmental seminars and training courses to support your research and you can develop your skills further by supporting undergraduate teaching through employment in teaching laboratories, computer classes or drop-in sessions. You will have a desk and computer in a shared research student office or laboratory, and access to library and IT facilities.

How to apply

Projects which have funding attached (eg through research councils, university funding or industry sponsorship) are advertised on our online prospectus and do not require a research proposal.

For self-funded projects or those funded by third-party sponsors, you should give an indication of your general research field of interest but are advised not to provide a detailed research proposal.

If you have already made contact with a potential supervisor, please provide details on the application.

Our areas of research

Novel Materials

Research in this area covers novel materials such as high-temperature superconductors, graphene and topological insulators and superconductors, Weyl metals, and the engineering and design of quantum devices from topological matter.

Quantum and Nano-engineering and Design

The interdisciplinary Quantum Systems Engineering Research Group brings together a unique team from diverse backgrounds including scientists, quantum technologists, engineers and end-users. Research in this area ranges from fundamental ideas in quantum mechanics and quantum behaviour in condensed matter to applications to quantum technology.

High Frequency Solid State Physics and Engineering

Arrays of Josephson junctions have applications as low-noise magnetic sensors. Terahertz radiation sources have many important applications in physics, astronomy, chemistry, biology and medicine.

Physics of Complexity

Research in this area covers econophysics, biophysics, Brownian motion, sociophysics and social networks, and the complexity of topological materials.

The Department has internationally leading research groups and infrastructure, supporting the research in all presented areas.



Taught programmes

Advanced Physics

MSc

Full-time length: 1 year

Part-time length: not available

Entry requirements

An honours degree (2:2 or above) or equivalent overseas qualification in science or engineering, or appropriate professional experience.

Fees

Band 3 (see page 228 for details).

Programme overview

Our MSc Advanced Physics will equip you with the key skills needed for employment in industry, public service or academic research.

The programme reflects the research strengths and specialisms of Loughborough's Department of Physics, combining compulsory modules in superconductivity and nanoscience with options that include quantum computing and solid-state physics. These modules will allow you to apply and communicate your knowledge of materials science via the development of an individual project essay in which you will consider a particular aspect of physics and gain experience in conducting a piece of original applied research.

Modules

Compulsory modules studied may include: Mathematical Methods for Interdisciplinary Sciences; Superconductivity and Nanoscience; Research Methods in Physics; Research Project.

Optional modules may include: Characterisation Techniques in Solid State Physics; Quantum Information; MATLAB as a Scientific Programming Language; Advanced Characterisation Techniques; Quantum Computing; Physics of Complex Systems.

How you will be assessed

You will be assessed by a combination of exams, coursework and group work.

How you will study

You will study through a range of lectures, seminars, tutorials, practical sessions, group work and individual study, including your own substantial research project.

Who should study this programme?

Our MSc Advanced Physics is suited to graduates who want to apply their broad understanding of basic principles to the solution of a specific and detailed problem pertinent to an area of current research activity. The programme will equip you with the key skills needed for employment in industry, public service or academic research.

Physics of Materials

MSc

Full-time length: 1 year

Part-time length: not available

Entry requirements

An honours degree (2:2 or above) or equivalent overseas qualification in science or engineering, or appropriate professional experience.

Fees

Band 3 (see page 228 for details).

Programme overview

Our MSc Physics of Materials provides you with the opportunity to work with expert researchers in the field. This research-focused comprehensive programme is designed to equip you with the advanced theoretical and mathematical skills of a professional physicist.

The programme allows you to explore the physics of new materials, their preparation and characterisation. You will learn how to work with modern equipment and make an analysis of your own experimental and theoretical data, as well as applying modern physics methods to assess materials, examine properties of novel materials, and develop the advanced theoretical and quantitative skills that are highly sought after by employers.

Modules

Compulsory modules studied may include: Mathematical Methods for Interdisciplinary Sciences; Superconductivity and Nanoscience; Characterisation Techniques in Solid State Physics; Research Methods in Physics; Research Project.

Optional modules studied may include: Polymer Properties; Polymer Science; Advanced Characterisation Techniques; Simulation of Advanced Materials and Processes; Materials Modelling.

The theme of your research project will be one of the topical areas in physics of materials, including graphene-based materials, thin film materials, shape memory compounds or nanomaterials, or experimental study of properties of materials.

How you will be assessed

You will be assessed by a combination of exams, coursework and group work.

How you will study

You will study through a range of lectures, tutorials, practical sessions, group work and guided independent study, including your own substantial research project.

Who should study this programme?

Our MSc Physics of Materials is designed for graduates who are looking to develop advanced skills in: problem solving; experimental, mathematical or computational techniques; scientific report writing and presentation skills; obtaining and understanding information from scientific literature; the collection and analysis of data; or the development of theoretical models.



Shane
PhD student

"My favourite thing about Loughborough is the community and support. I received a warm welcome from the current doctoral researchers when I arrived and quickly became part of the community. Everyone wants to see you succeed."


ESRC RESEARCH GRANTS
TOTALLING £0.5M


REF 2014
8TH IN THE UK FOR
RESEARCH INTENSITY

Politics and International Studies

Politics and International Studies is committed to delivering outstanding research that has the potential to transform policy, raise new questions and inspire academic and public debate.

Our research focuses on contemporary politics and political theory, early modern and modern history, international organisation and critical security studies. Our research strengths are reflected in the results of the latest Research Excellence Framework (REF), which included a ranking in the UK top 10 for research intensity.

Most of the research is linked to humanities and the political and social sciences but Politics and International Studies also has a fascinating portfolio of interdisciplinary research into the history of ideas, radical movements and activism, gender politics, international politics and history, government and governance, politics and the arts, media studies, history, and digital humanities.

Inspiring graduates

Politics and International Studies is a supportive environment for postgraduate study and fosters strong research links between academics and students. Students participate in seminar planning and receive tailored advice on fellowships and publication. Graduates from this area have secured prestigious positions in academic institutions, including the Wiesenthal Institute in Vienna, Exeter University, Queen's University Belfast and University College Dublin. Others have pursued careers in academic publishing, with international and UK-based campaign groups, and with civil society organisations.

Our programmes

Research opportunities

p160

 lboro.ac.uk/pg2019/polis

Research opportunities

PhD: 3 years full-time; 6 years part-time

MPhil: 2 years full-time; 4 years part-time

Entry requirements

An honours degree (2:1 or above) or equivalent overseas qualification in a relevant discipline. Applicants without a postgraduate qualification will be required to complete research training in tandem with their doctoral programme.

Fees

Band RA (see page 228 for details).

Based within the School of Social Sciences, Politics and International Studies comprises the disciplines of politics, history and international relations. All of our academic staff are active researchers, working within and across disciplinary boundaries. The School is home to 110 postgraduates working closely with 80 specialist supervisors who are located in one of four main research areas:

- Communication and Media
- Geography and Environment
- Politics and International Studies
- Social and Policy Studies.

Supporting you

You will be assigned two supervisors who are international experts in their respective fields plus an internal reviewer and a Director of Doctoral Programmes. This team provides tailored academic and pastoral support throughout your studies. The School runs an extensive programme of research training and you will have the chance to participate in and run seminars and discussion groups. These will help you integrate into the School's academic community and develop skills that will enable you to present your work at national and international conferences.

You will be provided with access to a shared office with networked PC and specialist software, and allowances for photocopying, conference attendance and inter-library loans.

How to apply

Projects which have funding attached (eg through research councils, university funding or industry sponsorship) are advertised on our online prospectus and do not require a research proposal.

For self-funded projects or those funded by third-party sponsors, you are strongly advised to contact spgsresearch@lboro.ac.uk before making an application. This will allow us to ensure that supervision is available and that your proposal falls into an area of established expertise. It also helps us put you in touch with our academics if you want to discuss your ideas informally before you apply. If you wish to make an application, you will also need to submit a research proposal. Please see our online prospectus for guidance.

Our areas of research

Anarchism Research Group (ARG)

The ARG supports anarchism research across scholarly disciplines at the University and works to raise the profile of anarchist studies through scholarship and public engagement. The group also works in collaboration with the Politicised Practise, and Theatre and Performance research groups based in the School of the Arts, English and Drama to question prevailing political, economic and cultural orthodoxies.

Ethics in Public Life Group

A network of academics from departments across Loughborough and beyond who are committed to debating issues concerning ethics in public life. The group hosts conferences, symposia and public lectures from high-profile speakers on a range of issues from the role of MPs, political lobbying and economic inequality to public health, international aid and the ethics of scientific research.

Loughborough Security Studies (LSS)

LSS produces critical and applied research on politically, strategically, socially and ethically pressing security issues in global politics. Its research strengths lie in war and conflict, migration, resilience, and gender and security. The group explores the local and transnational implications of security policies on states, communities and individuals, shedding light on everyday practices of security and the construction of resilient communities in the UK and Europe, as well as globally.

Media, Memory and History

Research in this group examines both the historical evolution of communication and the involvement of the media in shaping our experience of the past, present and future. It provides a shared focus of research for scholars across the social sciences and humanities. Researchers work on various aspects of media and communication history, mediated memory and the relationship between media and time.

Radical Politics and Populism

This new research cluster is focused on the comparative study of populism, radicalism and social movements in democratic societies.



—
“The co-operation between colleagues and staff is excellent. My advice for future PhD students would be to do it – if you love what you want to study, it will be far easier than you think.”
—



Bogdana
PhD student

"We are being helped to prepare for the next step in our academic path. We have been constantly encouraged and supported to present at conferences, publish academic papers and get involved in research projects and in teaching."



REF 2014

100% OF SOCIAL WORK AND
SOCIAL POLICY RESEARCH
RATED 'WORLD-LEADING'
OR 'INTERNATIONALLY
EXCELLENT'



GUARDIAN UNIVERSITY
GUIDE 2019

4TH FOR SOCIAL POLICY
AND ADMINISTRATION

Social and Policy Studies

Social and Policy Studies at Loughborough has long been recognised as an international centre of academic excellence and for its cutting-edge, interdisciplinary work. Loughborough is home to world-leading, original and internationally excellent research in sociology, and social policy and criminology.

This study area is committed to delivering outstanding research that improves lives and influences and informs government policy. Our staff work with a wide range of public and third sector bodies, including Joseph Rowntree Foundation, Child Poverty Action Group, the Metropolitan Police and the UK Drug Policy Commission. Our social policy and criminology

research has world-leading impact, particularly in services for children and minimum income standards. Our research and analysis of 'A Minimum Income Standard for the United Kingdom' is the leading standard of its kind in the UK, where it is used to set the living wage and is being replicated in other countries seeking to establish benchmarks for acceptable household income levels rooted in social consensus.

Our graduates have gone on to work for companies and organisations such as China Development Research Foundation, Elsevier Ltd, Image Line Communication, Institute of Psychiatry, the Metropolitan Police Service, Oxfam, and X-Pert Med GmbH.

Our programmes

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Digital Media and Society	p107
Social Science Research (Social Policy)	p165

Research opportunities

PhD: 3 years full-time; 6 years part-time

MPhil: 2 years full-time; 4 years part-time

Entry requirements

An honours degree (2:1 or above) or equivalent overseas qualification in a relevant discipline. Applicants without a postgraduate qualification will be required to complete research training in tandem with their doctoral programme.

Fees

Band RA (see page 228 for details).

Based within the School of Social Sciences, Social and Policy Studies comprises the disciplines of criminology and social policy, and sociology. All of our academic staff are active researchers, working within and across disciplinary boundaries. The School is home to 110 postgraduates working closely with 80 specialist supervisors who are located in one of four main research areas:

- Communication and Media
- Geography and Environment
- Politics and International Studies
- Social and Policy Studies.

Supporting you

You will be assigned two supervisors who are international experts in their respective fields plus an internal reviewer and a Director of Doctoral Programmes. This team provides tailored academic and pastoral support throughout your studies. The School runs an extensive programme of research training and you will have the chance to participate in and run seminars and discussion groups. These will help you integrate into the School's academic community and develop skills that will enable you to present your work at national and international conferences.

You will be provided with access to a shared office with networked PC and specialist software, and allowances for photocopying, conference attendance and inter-library loans.

How to apply

Projects which have funding attached (eg through research councils, university funding or industry sponsorship) are advertised on our online prospectus and do not require a research proposal.

For self-funded projects or those funded by third-party sponsors, you are strongly advised to contact spgsresearch@lboro.ac.uk before making an application. This will allow us to ensure that supervision is available and that your proposal falls into an area of established expertise. It also helps us put you in touch with our academics if you want to discuss your ideas informally before you apply. If you wish to make an application, you will also need to submit a research proposal. Please see our online prospectus for guidance.

Our areas of research

Criminology and Social Policy

This group focuses on the analysis of issues associated with crime and social policy, and on the evaluation of policy in practice. Members have been invited to contribute to government policy debates and proposals, and have published widely in their areas of specialism.

Sociology

Members of the Sociology research group are recognised internationally for contributions to their specialist fields which include, among others, qualitative and digital research methods, gender, policing, health and illness, tourism, citizenship and social theory. Often of interdisciplinary significance, colleagues publish in leading journals and university presses as they engage in a wide range of issues of contemporary society and culture.

Centre for Research in Social Policy (CRSP)

CRSP is one of the UK's most established centres specialising in innovative and applied social policy research and critical policy analysis, undertaking topical research for the UK Government.

Taught programmes

Social Science Research (Social Policy)

MSc

Full-time length: 1 year

Part-time length: 2 years

Entry requirements

An honours degree (2:1 or above) or equivalent overseas qualification in a related discipline.

Fees

Fee band 1 (see page 228 for details).

Programme overview

Our MSc Social Science Research (Social Policy) provides you with a comprehensive overview of the key methodological and philosophical debates that currently shape social sciences. It also provides an opportunity to develop specialised research methods skills in social policy in an internationally renowned department for social policy research.

The programme consists of compulsory and optional modules delivered across Loughborough's Schools of Social Sciences; Sport, Exercise and Health Sciences; Business and Economics; and Science.

On completion of the Social Science Research (Social Policy) programme, you will have met the MSc training requirements for PhD funding from the ESRC, opening up the possibility of securing doctoral researcher funding from this research council.

Modules

Compulsory modules studied may include: Philosophy of Social Science; Quantitative Research Methods; Research Design and Practice; Qualitative Research Methods; Specialist Research Methods: Understanding Social Policy Research; Dissertation.

Optional modules studied may include: Doing Research with Young People in their Socio-spatial Contexts; Advanced Content Analysis; Methodological Advances in Applied Ethnography; Applied Conversation Analysis; Methodological Implications of Critical Realism.

How you will be assessed

You will be assessed by a combination of coursework and group work.

How you will study

You will study through a range of seminars, lectures, practical sessions and workshops.

Who should study this programme?

Our MSc Social Science Research (Social Policy) is suitable for individuals wishing to pursue a career in academia, social policy practitioners who wish to develop and strengthen their applied research skills and those wishing to conduct research in non-academic public and private sector roles.



Amber

MSc Exercise Physiology

"My undergraduate lecturer in the United States told me if I wanted a master's degree in sport, exercise and health sciences, then Loughborough was the clear choice. It is truly world-renowned."



QS WORLD RANKINGS
BY SUBJECT 2018
1ST IN THE WORLD
FOR SPORTS-RELATED
SUBJECTS



THE COMPLETE UNIVERSITY
GUIDE 2018
4TH IN THE UK
FOR SPORT SCIENCE

Sport, Exercise and Health Sciences

The School of Sport, Exercise and Health Sciences is a globally recognised centre of excellence for the study of sport, exercise and health across the natural and social sciences.

Ranked first in the world for sports-related subjects for two years running in the prestigious QS World University Rankings, the School's wide-ranging expertise encompasses a range of diverse areas. These include medicine, molecular biology, nutrition, physiology, biomechanics, economics, pedagogy, psychology, sociology and sport management.

Loughborough attracts influential sport organisations from across the country who wish to partner with the School on a range of cutting-edge research, teaching and enterprise activities. These partnerships benefit

postgraduate students by ensuring the School's teaching and research is informed by industry and has a real world impact on society, culture and the economy.

World-class facilities

The School of Sport, Exercise and Health Sciences is proud to offer postgraduate students the most advanced facilities for learning and research.

The School is based inside an £8 million development housing 27 laboratories with specialist equipment for the study of human biology, psychology, physiology, and biomechanics. These include the latest physiological, molecular and environmental technologies, two climatic chambers and bespoke training and testing equipment. The School also offers a number of versatile study areas and seminar rooms.

Our programmes

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Research opportunities

PhD: 3 years full-time; 6 years part-time
MPhil: 2 years full-time; 4 years part-time

Entry requirements

An honours degree (2:1 or above) or equivalent overseas qualification, or a master's degree.

Fees

Band RB (see page 228 for details).

Supporting you

You will be assigned a primary and secondary supervisor who provide academic and personal support, along with the Director of Doctoral Programmes who oversees progress.

You will have a desk, workstation, allowance for photocopying and inter-library loans, plus the opportunity to apply for conference travel grants.

How to apply

Projects which have funding attached (eg through research councils, university funding or industry sponsorship) are advertised on our online prospectus and do not require a research proposal.

For self-funded projects or those funded by third-party sponsors, you should submit a research proposal of a maximum of 1,000 words, to include the aims of your study, a brief literature review, an outline of the proposed research methods and your preferred member of staff to supervise the project.

You are strongly recommended to contact us before submitting an application for preliminary discussions regarding topics, availability and funding.

Our areas of research

Sports Performance

This research theme aims to understand and enhance sport and exercise performance across the ability range by investigating the factors influencing, and methods for improving, human performance in sport and exercise. These objectives encompass the physiological, pedagogical, biomechanical and psychological aspects of performance, as well as injury prevention and rehabilitation. A further objective is to analyse the social, political and economic context within which performance sport takes place.

Lifestyle for Health and Well-being

The objectives of this theme are to improve human health and well-being throughout the lifespan by considering the social, behavioural and biological determinants and consequences of human lifestyles, with specific emphases on physical activity, nutrition and chronic disease.

Participation in Sport and Exercise

This theme analyses the sociological, economic, psychological, political, organisational and behavioural factors which inhibit and facilitate community participation in sport and exercise.

Centres for Doctoral Training

Gender and Sport Centre for Doctoral Training

The newly-formed Gender and Sport Centre for Doctoral Training (CDT) aims to explore the current and changing landscape of sports participation for transgender adults and children, and recommend changes to promote inclusive participation.

This multidisciplinary mini-CDT supports PhD study across three schools (Sport, Exercise and Health Sciences; Social Sciences; and Arts, English and Drama). Together they employ a diverse set of methodologies to explore the critical issue of gender diversity in sports participation across a spectrum of stakeholders. These include teachers, parents, cisgender children and adults, trans children and adults, athletes, non-athletes, clinicians, policy makers and sports governing bodies.

For more information, please see
lboro.ac.uk/pg2019/cdt

Taught programmes

Exercise as Medicine

MSc

Full-time length: 1 year

Part-time length: typically 2 years

Entry requirements

An honours degree (2:1 or above) or equivalent overseas qualification in a relevant subject, or equivalent professional experience.

Fees

Band 4 (see page 228 for details).

Programme overview

Our MSc Exercise as Medicine will equip you with the knowledge and skills to promote the uptake of exercise, both as a prescriptive medicine and as preventative therapy.

The programme draws on Loughborough's internationally recognised research on physical activity and health. It will educate a new, highly skilled cadre of allied health professionals with the ability to work alongside clinicians and practitioners to manage the epidemic of lifestyle-related diseases and conditions.

You will benefit from our high-quality teaching environments and have access to state-of-art laboratories, designed to facilitate the transfer of cutting-edge research to front line support and care. You will also be exposed to a range of specialist equipment and technology to facilitate your development.

Modules

Modules studied include: Exercise Testing and Prescription; Epidemiology of Physical Activity; Interventions for Physical Activity Promotion; Physical Activity Measurement and Evaluation; Exercise, Health, Medicine and Society; Quantitative Research; Project in Exercise as Medicine.

How you will be assessed

You will be assessed by a combination of exams, coursework and group work.

How you will study

You will study through a range of seminars, lectures, tutorials, independent study, group work, practical sessions and supervision.

Who should study this programme?

Our MSc Exercise as Medicine is aimed at individuals with a background in exercise science and/or physical activity. It is suitable for those wishing to enhance their scientific knowledge and skills to promote the uptake of exercise, both as prescriptive medicine and as preventative therapy, particularly to patients with hypertension, diabetes, pulmonary, renal, and other cardiac conditions or those at risk of metabolic syndrome.

Exercise Physiology

MSc

Full-time length: 1 year

Part-time length: please see website for more information

Entry requirements

An honours degree (good 2:1 or above) or equivalent overseas qualification in sports science or other relevant biological science that contains a substantial element of exercise physiology, such as applied human physiology or physiotherapy.

Fees

Band 3 (see page 228 for details).

Programme overview

Our MSc Exercise Physiology is designed to provide you with an in-depth understanding of the physiological, nutritional and metabolic demands of exercise and training, and their implications for participation in sport and for the maintenance of good health.

The programme offers study at a high level across a range of exercise physiology, nutrition, immunology and neuromuscular modules. Physiology practical sessions are taught in a specialist physiology teaching laboratory, which can be partitioned to allow small group work stations or opened up to use the 20m sprint track. You will also have the opportunity to use these facilities as part of your research dissertation.

Previous dissertation project areas include muscle physiology, cardiovascular physiology, biochemistry, metabolism, risk factors for chronic diseases, exercise and appetite, exercise immunology, physiological response to exercise in children, and disability sport.

Modules

Compulsory modules may include: Physiology of Endurance Performance; Current Research in Exercise Physiology; Laboratory Techniques in Exercise Physiology; Quantitative Research Methods; Research Project.

Optional modules may include: Exercise and Immunology; Vocational Skills in Exercise Physiology; Neuromuscular Function; Sport and Exercise Nutrition.

How you will be assessed

You will be assessed by a combination of exams, coursework and group work.

How you will study

You will study through a range of lectures, tutorials, independent study, group work, practical sessions and supervision.

Who should study this programme?

Our MSc Exercise Physiology is designed for graduates possessing a good degree in sports science, or other relevant biological sciences, who may be considering careers in sport and exercise physiology settings or pursuing research careers.

Musculoskeletal Sport Science and Health

MSc

Full-time length: 1 year

Part-time length: typically 2 years

Entry requirements

An honours degree (2:1 or above) or equivalent overseas qualification in a relevant subject, or equivalent professional experience.

Fees

Band 4 (see page 228 for details).

Programme overview

Our MSc Musculoskeletal Sport Science and Health will provide you with further knowledge of the scientific concepts and procedures underpinning sport and exercise-related musculoskeletal function, measurement, injury and treatment.

The programme allows you to adopt a multidisciplinary approach to musculoskeletal health and performance, including anatomy, physiology, biomechanics, bioengineering and kinesiology.

The Musculoskeletal Sport Science and Health programme is delivered in connection with the National Centre for Sport and Exercise Medicine – East Midlands (NCSEM-EM), which is accredited by the International Olympic Committee (IOC) Research Centre for Prevention of Injury and Protection of Athlete Health – one of just nine around the world. The programme is based at Loughborough but there may be the option to take some modules at the Queen's Medical Centre or other University of Nottingham facilities, or for elements to be delivered by other NCSEM-EM partners.

Modules

Core modules may include: Orthopaedic Sport Biomechanics; Neuromuscular Function; Physiology of Endurance Performance; Basic Science and Regenerative Therapy; Emerging Technologies for Health and Wellbeing; Research Project.

Optional modules may include: Motion Analysis of Human Movement; Developing Computer Models for Sports Biomechanics; Sports/Musculoskeletal Injury.

How you will be assessed

You will be assessed by coursework, essays, laboratory write-ups, reports, presentations, in-class tests, and exams, as well as project reports and a research project.

How you will study

You will study through a range of seminars, lectures, tutorials, independent study and practical sessions.

Who should study this programme?

Our MSc Musculoskeletal Sport Science and Health is aimed at those who are looking to adopt a multidisciplinary approach to the scientific study of sport and exercise-related musculoskeletal health and performance.

Physical Education with Qualified Teacher Status

PGCE/MSc with QTS

PGCE: 1 year full-time

MSc with QTS: 1 year full-time PGCE plus additional part-time modules

Entry requirements

An honours degree (2:1 or above) or equivalent overseas qualification in a relevant discipline, which has at least 50% physical education content. Please see website for full details.

Fees

Band 1 (see page 228 for details).

Programme overview

Our Physical Education with Qualified Teacher Status (QTS) programme prepares you to teach secondary school students. It provides practical professional preparation for teaching in secondary schools and is designed and delivered in partnership with local school authorities.

We have a strong tradition of teacher education and a history of successfully producing outstanding teachers who are in great demand by schools and colleges in the UK and overseas.

You will have access to both the University's outstanding sports facilities for the taught element of the course and a partnership of more than 40 schools in the region for the school-based element of the course.

The PGCE represents both a standalone qualification and the first year (contributing half the credits) of an MSc in Education with QTS. This therefore provides an opportunity for you to gain a relevant master's degree during your early teaching career.

A Loughborough PGCE gives you excellent career prospects. The majority of our PGCE trainees have secured teaching posts by the time they complete their training and have gone on to successful careers in many different schools throughout the UK and overseas.

How you will be assessed

You will be assessed through a variety of methods, including written assignments and a group presentation.

How you will study

You will study through a range of lectures, seminars, tutorials, group work, independent study and practical sessions.

Who should study this programme?

Our Physical Education with Qualified Teacher Status programme is ideal preparation for a career teaching secondary school students. It is designed to develop teaching professionals who engage in critical reflective practice to further develop their teaching and enhance pupil learning.

Sport and Exercise Nutrition

MSc

Full-time length: 1 year

Part-time length: please see website for more information

Entry requirements

An honours degree (2:1 or above) or equivalent overseas qualification in nutrition, dietetics, physiology, or sports science with a strong biological sciences component, or a related subject.

Fees

Band 3 (see page 228 for details).

Programme overview

Our MSc Sport and Exercise Nutrition provides you with an in-depth understanding of the nutritional and metabolic demands of exercise, of the interactions between diet, exercise and health, and how nutrition influences performance in sport.

You will complete modules that cover the fundamental nutritional, physiological and metabolic principles underpinning sport and exercise nutrition practice, as well as modules where you put these principles into practice and a project examining a novel research question within sport and exercise nutrition.

You will benefit from training in sport and exercise nutrition, which will equip you for future careers in research, teaching in higher education, in industry or in applied sports nutrition support.

Please note that this programme is not a substitute for a dietetics qualification.

Modules

Compulsory modules may include: Sport and Exercise Nutrition; Physiology of Endurance Performance; Exercise and Immunology; Applied Nutrition; Advanced Sport and Exercise Nutrition; Laboratory Techniques in Sport and Exercise Nutrition; Quantitative Research; Research Project.

How you will be assessed

You will be assessed by a combination of coursework, including presentations, in-class tests, scientific and applied reports, a research project journal article and exams.

How you will study

You will study through a range of seminars, lectures, tutorials, independent study and practical sessions.

Who should study this programme?

Our MSc Sport and Exercise Nutrition is ideally suited for students who want to focus on the science behind the practice of sport and exercise nutrition.

Sport and Exercise Psychology

MSc

Full-time length: 1 year

Part-time length: typically 2 years

Entry requirements

An honours degree (2:1 or above) or equivalent overseas qualification in sport and exercise science, psychology or a related field. Please see website for full details.

Fees

Band 3 (see page 228 for details).

Programme overview

Our MSc Sport and Exercise Psychology moves beyond the fundamentals of psychological science. It focuses on significant areas in the applied contexts of sport and exercise while providing a critical understanding of sport and exercise psychology.

The programme is designed and delivered to prepare students for specific career pathways or academic roles in sport and exercise psychology, and sport and exercise science, with a focus on psychology. It is accredited by the British Psychological Society (BPS) via "Accreditation Through Partnership".

Modules

Compulsory modules studied may include: Introductory Qualitative and Quantitative Research; Psychology of Sport and Physical Activity in Youth; Current Research in Performance Psychology and Management; Psychology of Exercise for Clinical Populations; Mental Health in Sport and Exercise; Professional Practice in Sport Psychology; Psychology of the Coach-Athlete Relationship; Quantitative Research; Qualitative Research; Research Project.

How you will be assessed

You will be assessed by a combination of exams, coursework and group work.

How you will study

You will study through a range of lectures, seminars, independent study, group work, practical sessions, workshops and/or field work.

Who should study this programme?

Our MSc Sport and Exercise Psychology suits graduates with an interest in psychology, sport and exercise who are considering specialising in sport and exercise psychology.

Sport Biomechanics

MSc

Full-time length: 1 year

Part-time length: typically 2 years

Entry requirements

An honours degree (2:1 or above) or equivalent overseas qualification in sports science (with a strong biomechanics component), or in engineering, maths, physics or a related discipline.

Fees

Band 3 (see page 228 for details).

Programme overview

Our well-established MSc Sports Biomechanics enables you to specialise in the "physics of sports" – the area of science concerned with the analysis of human movement. Through movement, simulation and measurement, it seeks to gain a greater understanding of human performance in athletic and sporting activities, and to use this understanding to improve performance and reduce injury risk.

The programme covers cutting-edge modules, ranging from experimental techniques and equipment requirements and use, through to the latest theoretical considerations and research problems.

You will benefit from access to a large designated teaching laboratory, which can be partitioned into two fully equipped laboratories, allowing independent activities to be performed simultaneously. Throughout the programme you will use key biomechanics equipment, including Vicon motion analysis systems, force plates, wireless electromyography (EMG), and isokinetic dynamometers, together with software for computer simulation and inertia modelling. The programme culminates in an original research project wherein you will use the laboratory and equipment independently to collect and analyse data.

Modules

Compulsory modules studied may include: Theoretical Biomechanics; Neuromuscular Function; Orthopaedic Biomechanics; Current Research in Sport Biomechanics; Developing Computer Models for Sport Biomechanics; Motion Analysis of Human Movement; Quantitative Research; Research Project.

How you will be assessed

You will be assessed by a combination of exams, coursework and group work.

How you will study

You will study through a range of lectures, seminars, practical sessions and group work.

Who should study this programme?

Our MSc Sport Biomechanics is suitable for graduates with interests and academic backgrounds in sport and exercise science, engineering, mathematics, physical sciences, biological sciences or manual therapy (eg physiotherapy, osteopathy, etc.)

Sport Management

MSc

Full-time length: 1 year

Part-time length: typically 2 years

Entry requirements

An honours degree (2:1 or above) or equivalent overseas qualification in sports science or a social science discipline.

Fees

Band 3 (see page 228 for details).

Programme overview

Our MSc Sport Management will equip you with the skills and knowledge to work in the rapidly expanding global sports industry.

Our academic staff are renowned internationally for their contribution to sport management research and have conducted research for a range of respected organisations including Sport England, the International Olympic Committee (IOC) and the European Commission. This leading research supports and enhances the teaching on the programme.

With strong links existing between the School of Sport, Exercise and Health Sciences and various sport management practitioners across the UK, you will regularly complete assignments and case studies on professional sports clubs and international mega event organisation. We also offer the opportunity to undertake your research project in collaboration with sports organisations. In addition, we host guest speakers who present interesting and relevant case studies and provide opportunities for you to network with key players in the industry.

Modules

Modules studied may include: Sport Markets and Industries; Managing Service Quality in Sport; Economics of Sport and Leisure; Management of Human Resources; Research Methods for Sport Management; Sport Management: Theory and Practice; Accounting for Decision Making; Marketing Management; Strategic Management; Research Project.

How you will be assessed

You will be assessed by a combination of exams, coursework and group work.

How you will study

You will study through a range of lectures, seminars, practical sessions, independent study and group work.

Who should study this programme?

Our MSc Sports Management is suited to graduates looking to develop the knowledge and skills appropriate to a critical understanding of, and a capacity to work within, the contemporary sport sector.

Social Science Research (Sport and Exercise Science)

MSc

Full-time length: 1 year

Part-time length: typically 2 years

Entry requirements

An honours degree (2:1 or above) or equivalent overseas qualification in a wide range of subjects.

Fees

Band 1 (see page 228 for details).

Programme overview

Our MSc Social Science Research (Sport and Exercise Science) provides students with a comprehensive overview of the key methodological and philosophical debates that shape the social sciences.

Our research is multidisciplinary, drawing on the full spectrum of natural and social sciences, and is focused on issues of contemporary concern at international, national and local levels. We engage in strong partnerships with leading schools, institutes and universities across the world in the research fields of sport, exercise, education, health and well-being. The broad scope of this research has led to developments in the treatment of eating disorders; improved understanding of the effects of sedentary lifestyles and the benefits of physical activity; academic support to enhance sport coaching; advice to international sport organisations and governments on policies and procedures; guidance and support for elite athletes (both able-bodied and disabled) to achieve their full potential; and the use of exercise in treating health conditions.

Modules

Compulsory modules studied may include: Philosophy of Social Science; Quantitative Research Methods; Research Design and Practice; Qualitative Research Methods; Specialist Research Methods (Sports and Exercise Science); Development of Social Scientific Knowledge of Sport and Exercise; Dissertation.

Optional modules cover a range of advanced research methods.

How you will be assessed

You will primarily be assessed via coursework, along with a dissertation and an oral poster presentation.

How you will study

You will study through a range of lectures, seminars, practical sessions, independent study and group work.

Who should study this programme?

Our MSc Social Science Research is ideal for those wishing to pursue an academic career, for sport and exercise practitioners who wish to develop and strengthen their applied research skills, and for those wanting to conduct research in non-academic public and private sector roles.



Sport, Exercise and Health Sciences

Examining career-ending injuries in fast bowlers

Pete Alway and Laura Keylock, PhD researchers in the School of Sport, Exercise and Health Sciences, are working with the England and Wales Cricket Board to investigate the link between fast bowling and potentially career-ending back injuries.

Pete's research involves elite fast bowlers from male and female Senior, Lions and Under-19 England squads. The study aims to understand how the lumbar spine develops in fast bowlers to provide the optimal bone strength to withstand the demands of international cricket, as well as the interrelationships between factors which may cause lumbar stress fracture.

"The most severe injury suffered by fast bowlers is lumbar stress fracture, affecting more than a quarter of elite fast bowlers, much more than in any other sports, and compared to only 6% of the general population", explains Pete.

Players can spend an average of 239 days rehabilitating and lumbar stress fractures can end careers. Not all of these can be prevented though – some players are genetically susceptible to them. However, through modification of workload, bowling technique, bone loading and muscle strength, endurance and flexibility, the chances of getting a stress fracture can be reduced.

Laura meanwhile, is focusing on younger players, examining fast bowlers aged between 14 and 17 from county academies and local schools to give an insight into how lower back issues effect junior cricketers.

Data for both studies have been gathered in a variety of ways. Bone mineral density and content are assessed using DXA scans, whilst MRI is used to identify bone stress, stress fractures and paraspinal muscle size. Bowling technique is investigated using 3D motion analysis and bowling workload and injury data are collected through England cricket physiotherapists.

Laura and Pete's research aims to reduce lumbar stress fracture injuries in cricket and have an influence on national bowling guidelines for junior and elite players.

 lboro.ac.uk/pg2019/inspiringstories

Loughborough University London institutes

Loughborough University London offers an inspiring learning environment, complete with world-leading scholars, dynamic industry partners and a comprehensive package of careers and employability support.

Not only will you develop in-depth knowledge of your chosen subject area but you will also gain the skills and experiences you need to make your career a reality.



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Shannon

MSc Design Innovation Management

"The academic staff show a real interest in progressing students' knowledge and go to great lengths to support them."



Design Innovation

The Institute for Design Innovation is committed to delivering high-quality teaching in collaboration with industry and civil society to address real-life enterprise and social innovation needs.

The Institute combines research, teaching and enterprise to deliver comprehensive programmes in design innovation and management, entrepreneurial design management and design research.

Design students have the opportunity to take part in a wide range of activities with the Institute's extensive network of industry partners, social enterprises and voluntary organisations. The Institute also proudly maintains a close collaborative relationship with the Design School, located at the Loughborough campus.

Innovative teaching and research
Each programme allows students to engage in externally connected creative projects whilst studying in the design capital of the world.

These projects provide students with experience of working in cross-cultural and interdisciplinary design-driven teams, facilitating the development of skills that are increasingly in demand by industry.

The research agenda of the Institute for Design Innovation builds on the idea that design enables innovation through positive change in the context of users, organisations, ecosystems and society. The research topics include design value, design meaning, delivery of policies and services, and collaborative practices in social and enterprise environments.

Our programmes

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Entrepreneurial Design Management	p183

Research opportunities

PhD: 3 years full-time; 6 years part-time
MPhil: 2 years full-time; 4 years part-time

Entry requirements

An honours degree (2:1 or above) or equivalent overseas qualification.

Fees

Band RB (see page 228 for details).

Supporting you

By pursuing one of our postgraduate research programmes, you will have the opportunity to work with top researchers and industry leaders, and gain first hand experience of real life problem-solving. Our aim is to create a vibrant, enthusiastic and forward-thinking community, where world-leading academics and talented students work closely together to research world-leading inventions.

The Institute for Design Innovation is led by a faculty of inspiring, research-driven academics, who are committed to supporting research students to make their own discoveries. You will have the opportunity to collaborate with businesses, organisations and governing bodies to ensure that your research has the ability to serve a multitude of real world applications.

How to apply

All MPhil and PhD applications must be made online. We strongly recommend contacting your preferred research supervisor(s) in advance of submitting an application to discuss your ideas.

lborolondon.ac.uk/staff

Our areas of research

The Institute for Design Innovation has an interest in the issues of design that have received scant attention to date but have the potential to deliver outstanding outcomes for design.

Design Value

This area of research is focused on value creation perspectives in and through the application of design into multiple contexts involving users, organisations, ecosystems and society at large.

Design Meaning

This research area examines design-driven innovation of meaning in multiple contexts and environments. The relationship between design, culture and innovation is also a focal area of interest.

Design Delivery

This research area examines the role of design and designers in sustainable product service systems, social enterprises and services, and the circular economy.

Design Practice

This area of research investigates teams and groups in creative and design-driven contexts by exploring collaborative, interdisciplinary and multicultural practices and approaches.

Design Exploration

This area is open to exploratory topics, imaginative contexts and novel methodologies, such as urbanisation and smart cities, regeneration and digitalisation.

Taught programmes

Design and Culture

MA

Full-time length: 1 year

Part-time length: up to 4 years

Entry requirements

An honours degree (2:2 or above) or equivalent overseas qualification in design, innovation, business, media, technology or a related subject. Applicants from non-design backgrounds must have achieved 55% or above in their final year.

Fees

Band L2 (see page 228 for details).

Programme overview

MA Design and Culture programme will provide you with the concepts and skills for undertaking ethnographic research for completion of design projects. These skills can be applied and developed in both the interdisciplinary and international design projects that provide the core of the programme.

You will explore the dynamic, contingent relationships between design and its many cultural contexts. You will have the opportunity to develop your analytical and research skills through undertaking a substantial design innovation and evaluation project that draws on the influences of culture in design. These projects will provide you with the experience of working in cross-cultural and interdisciplinary design-driven teams.

Modules

You can expect to study modules which focus on the following topics: identity, culture and communication; reflection and action; meaning making in design; media and creative industries. You will also complete a design innovation project and a dissertation.

How you will be assessed

You can expect to complete essays and reports of varying lengths, as well as presentations, journal entries and projects. For information about the assessments you will be expected to complete for each module, please see the full module list for this programme online.

How you will study

You will study through a series of lectures, seminars, group tasks, project work and independent study. You will also have the opportunity to take part in guest lectures and projects on a range of topics.

Who should study this programme?

Our MA Design and Culture is suitable for students looking to develop the skills and knowledge needed to enhance their career prospects in user-centred design.

Design Innovation

MA/MSc

Full-time length: 1 year

Part-time length: up to 4 years

Entry requirements

An honours degree (2:2 or above) or equivalent overseas qualification in design, innovation, business, media, technology or a related subject. Applicants from non-design backgrounds must have achieved 55% or above in their final year.

Fees

Band L2 (see page 228 for details).

Programme overview

You will learn from the most influential thought leaders, pioneering researchers and creative innovators, exposing you to the latest theories and developments from across the discipline. You will be exposed to the latest knowledge and advances in design, and will develop innovative design skills and collaborative behaviour through a mixture of active learning and project work.

Each module will develop your design innovation knowledge by analysing and evaluating problems and responding to genuine industry challenges. Our inspiring learning environment will encourage you to think creatively and improve your effectiveness as an innovation designer.

Taking part in projects with real organisations will provide you with experience of working in cross-cultural and interdisciplinary design teams, facilitating the development of skills that are essential to roles across a range of disciplines.

Modules

You can expect to study modules which focus on the following topics: identity, culture and communication; design thinking; foresight and strategy; reflection and action; meaning making in design. You will also complete a collaborative project and a dissertation.

How you will be assessed

You can expect to complete essays and reports of varying lengths, as well as presentations, journal entries and projects. For information about the assessments you will be expected to complete for each module, please see the full module list for this programme online.

How you will study

You will study through a series of lectures, seminars, group tasks, project work and independent study. You will also have the opportunity to take part in guest lectures and projects on a range of topics.

Who should study this programme?

Our MA/MSc Design Innovation programme is suitable for individuals looking to develop their knowledge, skills and effectiveness as a designer.



Design Innovation

MRes

Full-time length: 1 year

Part-time length: up to 4 years

Entry requirements

An honours degree (2:1 or above) or equivalent overseas qualification in a wide range of related subjects. In exceptional circumstances, an applicant may be admitted to the programme who does not possess the requirements mentioned, but who has substantial relevant work experience. Please see website for more details.

Fees

Band L2 (see page 228 for details).

Programme overview

You will critically analyse ethical aspects of academic research and gain the advanced skills and abilities required to deal with ethical problems and challenges. As a result, you will have an in-depth understanding of the most effective research processes, procedures, practices and methodologies.

Alongside the taught elements of the programme, you will be able to access a tailor-made professional development programme mapped to the Vitae Researcher Development Framework, which will support you to market yourself and your skills in order to secure a rewarding research career. You will benefit from exclusive workshops on topics such as mentoring, employability profiling and careers support, and will attend key events and networking opportunities with staff, researchers and industry leaders.

Modules

You will study modules such as: research design, practice and ethics; quantitative research methods; foundations in qualitative research, as well as two optional modules from your discipline. In addition, you will undertake a collaborative project and a major research project under the supervision of an academic member of staff, which can also be supported by an external organisation.

How you will be assessed

You can expect to complete essays and reports of varying lengths, as well as presentations, proposals and pitches in some cases.

How you will study

You will study through a series of lectures, seminars, supervised project work and independent study. You will also have the opportunity to take part in guest lectures and seminars on a range of topics.

Who should study this programme?

If you have a passion for research, this programme will provide you with an opportunity to widen your skills, focus your interests and take the next step towards a PhD.

Design Innovation Management

MSc

Full-time length: 1 year

Part-time length: up to 4 years

Entry requirements

An honours degree (2:2 or above) or equivalent overseas qualification in design, innovation, business, media, technology or a related subject. Applicants from non-design backgrounds must have achieved 55% or above in their final year.

Fees

Band L2 (see page 228 for details).

Programme overview

You will enhance your design skills and knowledge through theoretical and practical modules on a range of topics. In turn, you will develop your effectiveness as a designer and entrepreneur to enable you to pursue a broad range of design management careers in the private and public sectors.

You will learn the value of collaborative behaviour and team work through modules such as the design innovation project, and will gain an insight into the inner workings and pressures facing a real organisation.

Successful graduates might expect to gain management roles in marketing, new product development, innovation, research and development, and the technology sector. Graduates will also have the opportunity to enhance their knowledge and career prospects further by undertaking an MRes or PhD programme.

Modules

You can expect to study modules which focus on the following topics: design thinking; reflection and action; meaning making in design; innovation management; entrepreneurship; intellectual property. You will also complete a design innovation project and a dissertation under the supervision of an academic member of staff, which can also be supported by an external organisation.

How you will be assessed

You can expect to complete essays and reports of varying lengths, as well as presentations, proposals and pitches in some cases. For information about the assessments you will be expected to complete for each module, please see the module list for this programme online.

How you will study

You will study a series of lectures, seminars, supervised project work and independent study. You will also have the opportunity to take part in guest lectures and seminars on a range of topics.

Who should study this programme?

This programme is suitable for aspiring design managers and entrepreneurs looking for the knowledge and skills required to operate in the consumer, commercial, national and international markets across a broad range of industries.

Entrepreneurial Design Management

MSc

Full-time length: 1 year

Part-time length: up to 4 years

Entry requirements

An honours degree (2:2 or above) or equivalent overseas qualification in design, innovation, business, media, technology or a related subject. Applicants from non-design backgrounds must have achieved 55% or above in their final year.

Fees

Band L2 (see page 228 for details).

Programme overview

Our MSc Entrepreneurial Design Management programme will teach you how to take an idea from the drawing board to the marketplace.

You will learn about the practicalities and challenges of establishing and running your own product design or manufacturing business, and will uncover how enterprising skills can influence and inform the design process.

You will learn about the inner workings and challenges facing small enterprises and will discover how to establish your own business in the creative, design and manufacturing sectors.

Graduates of the programme are well prepared for management roles with small creative enterprises, and will be equipped with the knowledge and insight required to launch their own enterprise.

Modules

You can expect to study modules which focus on the following topics: design thinking; reflection and action; funding; strategy and planning; business failure; meaning making in design; entrepreneurship; identity, culture and communication. You will also complete a design innovation project and a dissertation.

How you will be assessed

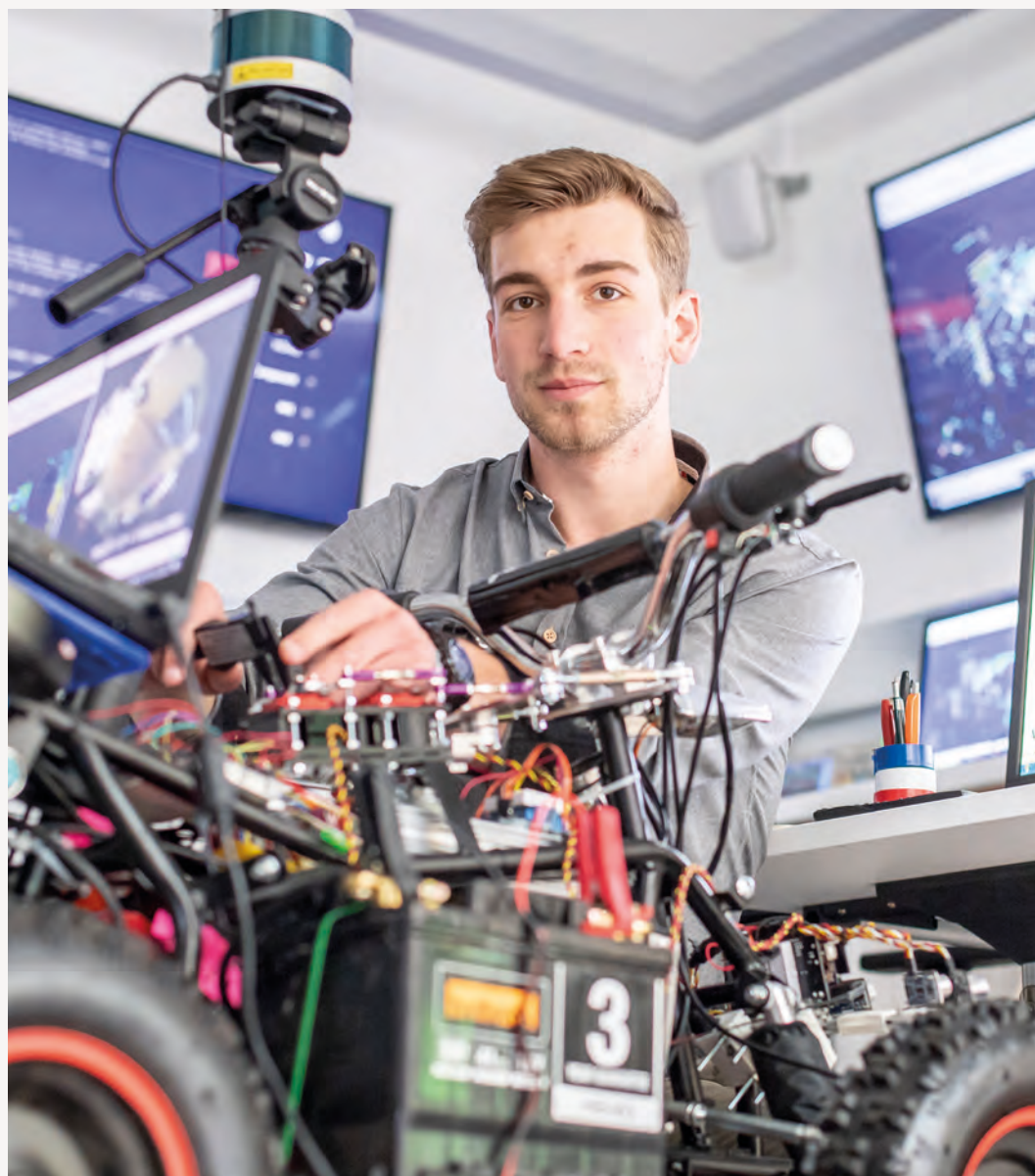
You can expect to complete essays and reports of varying lengths, as well as presentations, proposals and pitches in some cases. For information about the assessments you will be expected to complete for each module, please see the module list for this programme online.

How you will study

You will study through a series of lectures, seminars, group tasks, project work and independent study. You will also have the opportunity to take part in guest lectures and projects on a range of topics.

Who should study this programme?

Our MSc Entrepreneurial Design Management programme is suitable for individuals looking for the knowledge and skills required to manage a small creative enterprise or launch their own venture.



Mirco

Digital Technologies student

—
“Studying in London has enabled me to connect with so many different companies and research partners, from start-ups to multinational organisations.”



UK INDIA EDUCATION
RESEARCH INITIATIVE
AWARD FOR
HEALTHCARE PLATFORM



EUROPEAN DIGITAL CITY
INDEX 2016
TOP CITY FOR DIGITAL
ENTREPRENEURS

Digital Technologies

The Institute for Digital Technologies offers teaching and research excellence across all major areas of digital technologies.

These include the latest advances in big data, interactive and creative media, communication technologies, advanced 5G networks, cyber security, Internet of Things (IoT), and smart and autonomous systems.

The Institute for Digital Technologies is renowned for building strong collaborations with national and international academic, research, and industrial organisations including British Telecom, BT Sport, PTV Group, Chelsea FC, Thales, BBC, Telefonica, Rohde & Schwarz, Technicolor, Arçelik, and Disney Research.

Outstanding teaching and research

Each programme offers teaching from the most influential thought leaders, pioneering researchers and creative innovators to expose students to the latest theories and developments from across the discipline. Programmes are shaped by the principles and discoveries of our current research, and students are encouraged to participate in development projects and industry-focused work experience opportunities where possible.

PhD students with the Institute for Digital Technologies are provided with unrivalled access to industry partners and participate in large-scale international collaborative projects. With access to extensive software and equipment, as well as a dedicated research facility complete with hot desks, kitchen and social area, it is easy to see why the Institute boasts an exceptional postgraduate research experience.

Our programmes

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lboro.ac.uk/pg2019/digitaltech

Research opportunities

PhD: 3 years full-time; 6 years part-time
MPhil: 2 years full-time; 4 years part-time

Entry requirements

An honours degree (2:1 or above) or equivalent overseas qualification.

Fees

Band RB (see page 228 for details).

Supporting you

By pursuing one of our postgraduate research programmes, you will have the opportunity to work with top researchers and industry leaders, and gain first hand experience of real life problem-solving. Our aim is to create a vibrant, enthusiastic and forward-thinking community, where world-leading academics and talented students work closely together to research world-leading inventions.

How to apply

All MPhil and PhD applications must be made online. We strongly recommend contacting your preferred research supervisor(s) in advance of submitting an application to discuss your ideas.

lboro.ac.uk/staff

Our areas of research

Current research within the Institute focuses on:

Interactive Media Systems

Future multimedia applications will heavily rely on advanced content processing and networking solutions. Interactive media systems integrate various digital media components including audio and video into a structured immersive digital environment, with multimodal interfaces allowing users to interact effectively. The research in interactive media is concentrated on three topics: audio-visual communication systems; effective visualisation techniques, and augmented and virtual reality systems.

Networks, Internet of Things (IoT) and Cyber Security

The four pillars of research are:

- monitoring, analysing, modelling and adjusting the network configurations to optimise resources for better computing services and improved quality of experience
- developing next generation IoT systems with fully-autonomous smart behaviour capabilities
- building application driven, self-configuring capabilities for embedded intelligence and robustness
- developing novel mechanisms to identify, evaluate, enhance and mitigate cyber threats through signal processing and machine-learning algorithms.

Smart Systems

This research area encompasses the intelligent control of soft and physical systems by way of sensing, perceiving, and predicting future events and reacting to the data. The specific research areas include:

- advanced signal processing to handle massive multi-dimensional and multi-modal sensor data, generated in real-time
- intelligent perception to understand, organise and prioritise the sensed data to deduce the system status at a given time
- intelligent mission planning and reacting to status changes by optimising the system resources to achieve goals under imposed constraints.

—
"The social, friendly environment creates a home away from home, and I couldn't ask for a more like-minded and supportive environment in which to study."
 —

Taught programmes

Cyber Security and Big Data

MSc

Full-time length: 1 year

Part-time length: up to 4 years

Entry requirements

An honours degree (2:2 or above) or equivalent overseas qualification in electronics, computing, physics, mathematics or a related discipline. Please see website for full details.

Fees

Band L2 (see page 228 for details).

Programme overview

Our MSc Cyber Security and Big Data will provide you with the very latest insights and tools so that you can respond to the latest opportunities and challenges facing the digital world.

You will be exposed to the latest research discoveries and developments in network security, cryptography, data science and big data analytics, and will be given the opportunity to support major technology projects with the Institute for Digital Technologies. Optional industrial internship opportunities will also help to bring you up-to-date with the latest knowledge and skills required in the sector.

Modules

You will have the opportunity to study modules which focus on the following topics: principles of data science; applied cryptography; network security; cybersecurity and forensics; advanced big data analytics; internet and communication networks; Internet of Things and applications; media cloud applications and services; media processing and coding, and digital application development. You will also complete a collaborative project and a dissertation.

How you will be assessed

You will complete a combination of written and practical assessments, which will vary depending on the module choices you make. You can expect to complete essays and exams, as well as presentations, projects and reports. For more information, please see the module list for this programme online.

How you will study

You will study through a series of lectures, seminars, group tasks, project work and independent study. You will also have the opportunity to take part in guest lectures and projects on a range of topics.

Who should study this programme?

This programme is suitable for individuals looking to utilise the latest cyber security and big data analytics techniques to maximise opportunities and resolve problems facing the commercial, governmental and not-for-profit sectors.

Digital Creative Media

MSc

Full-time length: 1 year

Part-time length: up to 4 years

Entry requirements

An honours degree (2:2 or above) or equivalent overseas qualification. Please see website for full details.

Fees

Band L2 (see page 228 for details).

Programme overview

Our MSc Digital Creative Media programme has been designed to develop your knowledge and expertise in a broad range of areas, so that you will be able to interpret, design and develop creative media applications, including smart phone applications.

Specific topics covered as part of this programme include gaming technologies, media production and creative media design, and are taught by leading experts in these areas. You will also benefit from experience in 3D creative media and studio environments, so that you can better understand some of the most exciting applications of digital creative media.

Graduates of this programme will have the knowledge and skills required to enter a wide range of careers related to creative media, particularly in the production, film and music industries.

Modules

You will have the opportunity to study modules which focus on the following topics: media design and production; media and creative industries; media processing and coding; advanced 3D media environments; gaming technologies and systems; Internet of Things and applications; media cloud applications and services; digital application development; design thinking; media audiences, users and markets; social identities and digital media. You will also complete a collaborative project and a dissertation.

How you will be assessed

You will complete a combination of written and practical assessments, which will vary depending on the module choices you make. You can expect to complete essays and exams, as well as presentations, projects and reports. For more information, please see the module list for this programme online.

How you will study

You will study through a series of lectures, seminars, group tasks, project work and independent study. You will also have the opportunity to take part in guest lectures and projects on a range of topics.

Who should study this programme?

This programme is suitable for individuals looking to design and interpret creative media applications for a broad range of sectors, especially in the film, music, entertainment and creative industries.

Digital Design Innovation

MSc

Full-time length: 1 year

Part-time length: up to 4 years

Entry requirements

An honours degree (2:2 or above) or equivalent overseas qualification. Please see website for full details.

Fees

Band L2 (see page 228 for details).

Programme overview

New for 2019, our MSc Digital Design Innovation will offer an intensive one-year exploration of the latest opportunities and developments influencing digital design innovation.

Teaching from renowned academics in the areas of digital technologies and design innovation will enable you to develop your understanding of the global reach of digital design innovation through potential new technologies and their creative use.

You will develop and enhance the skills needed to design and develop viable strategies for the latest digital products and services. Teaching is based on current and original research being undertaken in both digital technologies and design innovation areas, to give you the opportunity to gain critical insights into the most innovative digital services and solutions.

Modules

You will have the opportunity to study modules on the following topics: digital services; digital application development; design thinking; media design and production; digital design innovation project; cloud applications and services; gaming technologies and systems; advanced 3D media environments; foresight and strategy; Internet of Things and applications. You will also complete a collaborative project and a dissertation.

How you will be assessed

You can expect to complete essays and reports of varying lengths, as well as presentations, projects and exams. For information about the assessments you will be expected to complete for each module, please see the module list for this programme online.

How you will study

You will study through a series of lectures, seminars, project work and independent study. You will also have the opportunity to take part in guest lectures and seminars on a range of topics.

Who should study this programme?

Our MSc Digital Design Innovation will appeal to a broad range of individuals with an interest in transforming innovative ideas and design processes into successful digital products and services.

Digital Innovation Management

MSc

Full-time length: 1 year

Part-time length: up to 4 years

Entry requirements

An honours degree (2:2 or above) or equivalent overseas qualification. Please see website for full details.

Fees

Band L2 (see page 228 for details).

Programme overview

Our MSc Digital Innovation Management provides a unique opportunity to combine knowledge of digital innovation with management insights and strategies, enabling you to stay ahead of one of the fastest evolving trends in the world.

This unique programme will equip you with the necessary knowledge and skills to further your career in digital innovation or technology management, and you will be well prepared to launch your own digital enterprise, if desired. You will also complete the programme as a highly-desirable candidate for roles in the digital innovation, management and business sectors.

Modules

You will have the opportunity to study the following topics: internet and communication networks; innovation management; Internet of Things and applications; cloud technologies and systems; media cloud applications and services; network security; principles of data science; media design and production; digital application development; advanced big data analytics; digital technologies for market analysis; entrepreneurship; business planning; intellectual property; understanding business failure. You will also complete a collaborative project and a dissertation.

How you will be assessed

You will complete written and practical assessments, which will vary depending on the module choices you make. You can expect to complete essays and exams, as well as presentations, proposals, projects and reports in some cases. For more information, please see the module list for this programme online.

How you will study

You will study through a series of lectures, seminars, supervised project work and independent study. You will also have the opportunity to take part in guest lectures and seminars on a range of topics.

Who should study this programme?

This programme is most suited to digital innovators with management aspirations, as well as business entrepreneurs with aspirations to generate new digital enterprise and innovation opportunities.

Digital Marketing

MSc

Full-time length: 1 year

Part-time length: up to 4 years

Entry requirements

An honours degree (2:2 or above) or equivalent overseas qualification. Please see website for full details.

Fees

Band L2 (see page 228 for details).

Programme overview

Our MSc Digital Marketing will provide you with a comprehensive understanding of digital marketing and strategic marketing management, as well as the associated challenges that face most marketers across a range of industries.

You will receive insight and experience of brand management, marketing communications, social media marketing, digital marketing and much more. You will graduate from the programme with the practical knowledge and skills required to enter a number of digital marketing roles focusing on market research, strategic marketing, communication and campaign marketing.

Modules

You will have the opportunity to study modules which focus on the following topics: strategic marketing management; digital practices for customer engagement; digital technologies for market analysis; advanced big data analytics; international marketing; introduction to digital technologies; media audiences, users and markets; design thinking; foresight and strategy; business planning; principles of entrepreneurship; innovation management; principles of data science. You will also complete a collaborative project and a dissertation.

How you will be assessed

You will complete a combination of written and practical assessments, which will vary depending on the module choices you make. You can expect to complete essays and exams of varying lengths, as well as presentations, projects and reports. For more information, please see the module list for this programme online.

How you will study

You will study through a series of lectures, seminars, group tasks, project work and independent study. You will also have the opportunity to take part in guest lectures and projects on a range of topics.

Who should study this programme?

Our MSc Digital Marketing is designed for individuals with an interest in the context in which today's consumers, businesses and societies operate, specifically the online opportunities and challenges facing the marketing profession.

Digital Technologies

MRes

Full-time length: 1 year

Part-time length: up to 4 years

Entry requirements

An honours degree (2:1 or above) or equivalent overseas qualification in a wide range of subjects. In exceptional circumstances, an applicant may be admitted to the programme who does not possess the requirements mentioned but who has substantial and relevant work experience. Please see website for full details.

Fees

Band L2 (see page 228 for details).

Programme overview

Our MRes Digital Technologies will enable you to widen your research skills, focus your interests and take the next step towards a PhD or analytical career. Whilst a traditional master's degree focuses on the development of expertise in a chosen area, an MRes places emphasis on the individual to uncover new knowledge, build research and analytical skills, and develop their own research expertise.

Alongside the taught elements of this programme, you will be able to access a tailor-made professional development programme mapped to the Vitae Researcher Development Framework, which will support you to market yourself and your skills in order to secure a rewarding research career.

Modules

You will study topics such as: research design, practice and ethics; quantitative research methods; foundations in qualitative research, as well as two optional modules from your discipline. In addition, you will undertake a collaborative project and a major research project under the supervision of an academic member of staff, which can also be supported by an external organisation.

How you will be assessed

You can expect to complete essays and exams as well as presentations and proposals in some cases. For more information, please see the module list for this programme online.

How you will study

Each module will be delivered through a series of lectures, seminars, supervised project work and independent study. You will also have the opportunity to take part in guest lectures and seminars on a range of topics.

Who should study this programme?

Our MRes Digital Technologies is designed for individuals with a passion for the latest digital discoveries and developments. Suitable candidates will have a long-term ambition to study a PhD or pursue an analytical career in the digital technology sector.



Emilia

MSc Diplomacy, Statecraft and Foreign Policy

"It has always been my life's ambition to major in foreign policy, and I am delighted that Loughborough University London has given me the opportunity to do so."



ACADEMIC EXPERTISE IN
BREXIT DIPLOMACY AND
MULTI-STAKEHOLDER
NEGOTIATIONS



DISCOVER THE LATEST
RESEARCH AFFECTING
GLOBAL SECURITY, EXTREMISM
AND FOREIGN POLICY

Diplomacy and International Governance

As old paradigms and models continue to expose their limitations, there has never been a greater need for a new understanding of how the international arena works.

Our programmes have been designed to expose you to many different aspects of diplomacy and international governance. Experts from academia and industry will share their insights to guide and support your own discoveries and learning.

We work alongside academic colleagues from across the University to ensure that you have a postgraduate experience of the highest quality. You will work collaboratively with academic staff and each other to enrich your studies and support local organisations in search of your subject expertise and advanced academic skills.

Brexit Diplomacy
Diplomacy is at the heart of many key issues facing the UK today, particularly the developments and repercussions of Britain's exit from the EU.

The Director of the Institute for Diplomacy and International Governance, Professor Helen Drake is leading a team of researchers to examine the politics, diplomacy and governance of Brexit. These findings are embedded into the teaching of our programmes, enabling you to discover the opportunities and challenges surrounding Brexit and their effect on the UK, and the rest of the world.

Our programmes

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Diplomacy, Business and Trade	p193
Diplomacy, Statecraft and Foreign Policy	p194
Security, Peace-building and Diplomacy	p194

Research opportunities

PhD: 3 years full-time; 6 years part-time
MPhil: 2 years full-time; 4 years part-time

Entry requirements

An honours degree (2:1 or above) or equivalent overseas qualification.

Fees

Band RA (see page 228 for details).

Supporting you

By pursuing one of our postgraduate research programmes, you will have the opportunity to work with internationally renowned researchers and practitioners in your field of study. As a PhD student with us, you will receive a comprehensive package of training and support to guide you towards a career in further research or a number of other professions.

How to apply

All MPhil and PhD applications must be made online. We strongly recommend contacting your preferred research supervisor(s) in advance of submitting an application to discuss your ideas.

lborolondon.ac.uk/staff

Our areas of research

Academics from the Institute for Diplomacy and International Governance offer research expertise and experience in a wide range of subject areas. They are extremely well-networked with professionals outside of academia in their respective fields.

In some cases, the Institute can provide joint supervisory arrangements with colleagues from other Loughborough University London institutes and from departments at Loughborough University's East Midlands campus.

The Institute currently leads research into the following areas. These are not exclusive and we encourage potential candidates to contact us for discussion before submitting an application:

- the European Union (including its institutions; member state domestic politics; EU-Russia relations; the EU as a foreign policy actor; the politics, diplomacy and governance of Brexit; the UK as a global actor post-Brexit; Brexit and its effect on the UK, the rest of the EU and Europe more broadly)
- the UK and transatlantic relations, especially their security dimensions
- London and other global cities
- political representation and participation of minority and marginalised communities, particularly Roma across central and eastern Europe, but also LGBTIQ communities
- minorities and international governance and diplomacy; visual culture and political voice
- critical and normative approaches to diplomacy
- international political communication and diplomatic discourse
- Russia-West relations
- terrorism, extremism and radicalisation.

We currently supervise PhDs in the fields of EU public diplomacy, securitisation in authoritarian regimes, and UK immigration policy and governance.

Taught programmes

Diplomacy and International Governance

MRes

Full-time length: 1 year

Part-time length: up to 4 years

Entry requirements

An honours degree (2:1 or above) or equivalent overseas qualification in a wide range of subjects. In exceptional circumstances, an applicant may be admitted to the degree who does not possess the requirements mentioned but who has substantial relevant work experience.

Fees

Band L1 (see page 228 for details).

Programme overview

This programme will explore the research processes, and uncover the designs, practices and methodologies used by experienced researchers from the Institute of Diplomacy and International Governance. Alongside the taught elements of this programme, you will be able to access a tailor-made professional development programme mapped to the Vitae Researcher Development Framework, which will support you to market yourself and your skills in order to secure a rewarding research career.

Modules

You will study topics such as: research design, practice and ethics; quantitative research methods; foundations in qualitative research, as well as two optional modules from your discipline. In addition, you will undertake a collaborative project and a major research project under the supervision of an academic member of staff, which can also be supported by an external organisation.

How you will be assessed

You can expect to complete essays, presentations, proposals and pitches in some cases. For more information please see the module list for this programme online.

How you will study

You will study through a series of lectures, seminars, supervised project work and independent study. You will also have the opportunity to take part in guest lectures and seminars on a range of topics.

Who should study this programme?

Our MRes Diplomacy and International Governance is suited to individuals with a passion for the latest developments and issues affecting diplomacy and international governance, and those looking to widen their research skills before undertaking a PhD.

Diplomacy, Business and Trade

MSc

Full-time length: 1 year

Part-time length: up to 4 years

Entry requirements

An honours degree (2:2 or above) or equivalent overseas qualification in a wide range of subjects.

Fees

Band L1 (see page 228 for details).

Programme overview

Our MSc Diplomacy, Business and Trade provides an extensive overview of the practice and development of international business and economic diplomacy. You will be exposed to the opportunities and challenges affecting trade in the global village, and the multiple communities and markets driving world commerce.

You will learn from world-leading academics with the latest insights and knowledge of diplomacy, international business and trade. Experts from outside academia will also share their insights to guide and support your own discoveries and learning.

Graduates of this programme will be equipped with the skills and knowledge required to pursue a career in government or intergovernmental organisations, as well as in non-governmental and the commercial sectors.

Modules

You will have the opportunity to study modules which include the following topics: controversies and concepts in diplomacy and international governance; international business and trade; the diplomacy and international governance of the global economy; diplomatic communication; the politics and practices of the European Union; the art of governance (diplomacy, lobbying and negotiations). You will also complete a collaborative project and a dissertation.

How you will be assessed

You can expect to complete essays and reports of varying lengths, as well as presentations, proposals and pitches in some cases. Examinations may form a small part of the assessment mix. For information about the assessments you will be expected to complete for each module, please see the module list for this programme online.

How you will study

You will study through a series of lectures, seminars, project work and independent study. You will also have the opportunity to take part in guest lectures and seminars on a range of topics.

Who should study this programme?

Our MSc Diplomacy, Business and Trade is suited to individuals with a passion for the latest developments and issues affecting the relations between diplomacy, governance, international business and trade.

Diplomacy, Statecraft and Foreign Policy

MSc

Full-time length: 1 year

Part-time length: up to 4 years

Entry requirements

An honours degree (2:2 or above) or equivalent overseas qualification in a wide range of subjects.

Fees

Band L1 (see page 228 for details).

Programme overview

This programme provides an umbilical link between theory and practice. It invites you to apply concepts and knowledge from scholarly research to the current practice of diplomacy and statecraft across the world. You will learn in an environment tailor-made for the development of relevant skills at an inspiring campus in London, one of the world's greatest cities.

You will be provided with specialised, systematic and in-depth knowledge of diplomacy and international governance, deploying appropriate theories, concepts and methods associated with practice in the field. You will be challenged to acquire a critical awareness of the New World Order and will learn how this concept relates to current issues involved in the study of diplomacy and international governance.

Modules

You will have the opportunity to study modules which include the following topics: controversies and concepts in diplomacy and international governance; foreign policy analysis; diplomatic communication; diplomacy and governance of the global economy; the politics and practices of the European Union; the art of governance (diplomacy, lobbying and negotiations). You will also complete a collaborative project and a dissertation.

How you will be assessed

You can expect to complete essays and reports of varying lengths, as well as presentations, proposals and pitches in some cases. Exams may also form a small part of the assessment mix. For information about the assessments you will be expected to complete for each module, please see the module list for this programme online.

How you will study

You will study through a series of lectures, seminars, project work and independent study. You will also have the opportunity to take part in guest lectures and seminars on a range of topics.

Who should study this programme?

This programme is suited to individuals with an interest in developing their critical awareness of how current issues affect the practice of diplomacy and statecraft across the world.

Security, Peace-building and Diplomacy

MSc

Full-time length: 1 year

Part-time length: up to 4 years

Entry requirements

An honours degree (2:2 or above) or equivalent overseas qualification in a wide range of subjects.

Fees

Band L1 (see page 228 for details).

Programme overview

This programme explores the link between national and global security and the role of peace-building in the development of multi-layered communities and nations.

You will benefit from specialised, systematic and in-depth guidance which is focused on the relationship between diplomacy, international security and peace-building.

You will utilise appropriate theories, concepts and methods associated with this area, whilst exploring the relationship between development and peace-building, civil-military relations, cyber security, and the wider global security context in which politics, trading and conflicts occur.

Graduates of this programme will be ready to pursue a career in diplomacy, particularly in the areas of international security and peace-building.

Modules

You will have the opportunity to study modules which include the following topics: controversies and concepts in diplomacy and international governance; foreign policy analysis; diplomatic communication; diplomacy and governance of the global economy; peace-building; international security; the politics and practices of the European Union; the art of governance (diplomacy, lobbying and negotiations). You will also complete a collaborative project and a dissertation.

How you will be assessed

You can expect to complete essays and reports of varying lengths, as well as presentations, proposals and pitches in some cases. Exams may also form a small part of the assessment mix. For information about the assessments you will be expected to complete for each module, please see the module list for this programme online.

How you will study

You will study through a series of lectures, seminars, project work and independent study. You will also have the opportunity to take part in guest lectures and seminars on a range of topics.

Who should study this programme?

This programme will equip you with the skills needed to pursue a career in diplomacy and international governance, with particular reference to international security and peace-building.



—
“London is a city with many hidden gems and offers a breadth of diversity in opportunities, culture and everything in between.”
—





Diplomacy and International Governance

Inspirational deaf student becomes ambassador of the Snowdon Trust

MSc Diplomacy, Statecraft and Foreign Policy student, Paul, has been made an ambassador of the Snowdon Trust.

The organisation appointed Paul to the role in recognition of his dedication to helping people with hearing impairments and disabilities achieve success through higher education.

He is the first deaf person to study MSc Diplomacy, Statecraft and Foreign Policy at Loughborough University London and has become a well-known name on campus and within the deaf community.

Paul works tirelessly to raise awareness of the community and their needs. He leads deaf awareness training events and has delivered motivational sessions to various businesses, charities and organisations, including the National Society for the Prevention of Cruelty to Children (NSPCC).

To mark his appointment with the Snowdon Trust, Paul was invited to the House of Lords at Westminster, where he met with Greg Boone from the Department for Education.

Paul's role will assess the provisions available to students with disabilities and identify what steps need to be taken by higher education institutions and supporting organisations to reduce barriers for disabled students.

Paul Alexander, Chief Executive of the Snowdon Trust, said: "We were delighted that Paul has agreed to become an Ambassador for the Snowdon Trust. Many of the students we help are outstanding, demonstrating real resilience, focus and determination. But, from the moment we met him, Paul stood out. He has amazing energy, enthusiasm and positivity and is 100% in tune with the equality messages we've been promoting. We know he'll make a great ambassador."



lboro.ac.uk/pg2019/inspiringstories



Zamira

MSc Entrepreneurship and Innovation Management

"I loved the cutting-edge curriculum, practice-based modules and being part of an international community."



90% FEE REDUCTION
FOR SELECTED STUDENTS
WITH AN INSPIRING
BUSINESS IDEA



ANNUAL INSTITUTE FOR
SMALL BUSINESS AND
ENTREPRENEURSHIP
AWARD WINNER 2016

Innovation and Entrepreneurship

The Institute for Innovation and Entrepreneurship is committed to delivering challenging, career enhancing programmes that look to offer real value to individuals and organisations across the globe.

The Institute combines expert teaching and research support alongside an exciting series of masterclasses and public lectures from international business leaders across the world. Each programme encourages students to develop the knowledge and competences necessary to establish, grow and manage entrepreneurial ventures, as well as recognise and exploit opportunities within established organisations.

The Institute is fully committed to delivering research-led teaching and employs leading academics in the fields of entrepreneurship and innovation to fulfil this goal. An annual international conference

held on campus explores cutting-edge research in entrepreneurship and innovation, and underscores the importance of research to the Institute and the University as a whole.

Inspiring location

London is one of the top cities in the world for business, finance and trade, and is a unique learning environment for students from the Institute for Innovation and Entrepreneurship to exploit.

There is a creative and entrepreneurial culture on campus, which has enabled students at Loughborough University London to achieve great things, like forge new business plans, grow niche new start-ups and share innovative solutions to business problems.

Students and staff enjoy working together as part of extracurricular, entrepreneurial teams and attend various conferences, competitions and hack events throughout the year.

Our programmes

Research opportunities	p200
Entrepreneurship and Innovation	p201
Entrepreneurship and Innovation Management	p201
Entrepreneurship, Finance and Innovation	p202
Managing Innovation in Creative Organisations	p202



lboro.ac.uk/pg2019/innovation

Research opportunities

PhD: 3 years full-time; 6 years part-time
MPhil: 2 years full-time; 4 years part-time

Entry requirements

An honours degree (2:1 or above) or equivalent overseas qualification.

Fees

Band RA (see page 228 for details).

Supporting you

By pursuing one of our postgraduate research programmes, you will have the opportunity to work with top researchers and industry leaders, and gain first hand experience of real life problem solving. As a PhD student with us, you will receive a comprehensive package of training and support to continue into a professional research career or to progress into a variety of roles with regional, international and multinational organisations and enterprises.

How to apply

All MPhil and PhD applications must be made online. We strongly recommend contacting your preferred research supervisor(s) in advance of submitting an application to discuss your ideas.

lborolondon.ac.uk/staff

Our areas of research

The Institute for Innovation and Entrepreneurship is committed to delivering research that is academically excellent and adds social value by addressing some of the problems facing the world today.

This type of research is relevant for all management studies scholars but particularly for those with a research interest in entrepreneurship and innovation. Our key areas of interest are listed below.

Entrepreneurship and Innovation

- formal and informal entrepreneurship
- university spin-outs
- contextual influences on strategic entrepreneurship
- corporate entrepreneurship
- social entrepreneurship
- creative and cultural industries enterprise
- ethnic minority enterprise
- business model innovation
- entrepreneurship ecosystem
- innovation ecosystem.

Corporate Governance

- state capitalism
- corporate governance: board structures
- comparative corporate governance
- corporate data responsibility and big data
- executive compensation, executive turnover and impact on decision-making.

Digital Innovation

- digital enterprise
- online entrepreneurial activity.

Disruptive Technologies

- redistributed manufacturing
- maker-spaces
- big data
- data-enabled capabilities
- Internet of Things.

Family Firms

- innovation and entrepreneurship across generations
- governance in family firms, including boards, trustees, and family councils
- family versus non-family relationships (harmony/conflict)
- leadership
- decision-making
- the importance of cultural, political, legal and economic context
- family exit and management buy-outs.

Social Science and Enterprise

- entrepreneurial creativity and imagination
- gender intersectionality and entrepreneurship.

Taught programmes

Entrepreneurship and Innovation

MRes

Full-time length: 1 year

Part-time length: up to 4 years

Entry requirements

An honours degree (2:1 or above) or equivalent overseas qualification in a wide range of subjects. In exceptional circumstances, an applicant may be admitted onto the programme who does not possess the requirements mentioned but who has substantial and relevant work experience.

Fees

Band L3 (see page 228 for details).

Programme overview

By undertaking MRes Entrepreneurship and Innovation, you will discover the theories and methodologies used to interpret business success. You will analyse critical insights into the best models and practices for launching a business or the requirements for making an existing enterprise more successful.

Alongside the taught elements of this programme, you will be able to access a tailor-made professional development programme mapped to the Vitae Researcher Development Framework, which will support you to market yourself and your skills in order to secure a rewarding research career.

Modules

You will study modules such as: research design, practice and ethics; quantitative research methods; foundations in qualitative research, as well as two optional modules from your discipline. In addition, you will undertake a collaborative project and a major research project under the supervision of an academic member of staff, which can also be supported by an external organisation.

How you will be assessed

You can expect to complete essays and reports of varying lengths, as well as presentations, proposals and pitches in some cases.

How you will study

You will study through a series of lectures, seminars, supervised project work and independent study. You will also have the opportunity to take part in guest lectures and seminars on a range of topics.

Who should study this programme?

Our MRes Entrepreneurship and Innovation is suited to individuals with a passion for the latest developments and issues affecting innovation and entrepreneurship in the real world, and those looking to widen their research skills, interests and expertise before undertaking a PhD or an analytical career.

Entrepreneurship and Innovation Management

MSc

Full-time length: 1 year

Part-time length: up to 4 years

Entry requirements

Minimum of a 2:2 (55% or above) or equivalent overseas qualification.

Fees

Band L3 (see page 228 for details).

Programme overview

This programme will give you an in-depth understanding of the importance of an entrepreneurial attitude and opportunity recognition. You will also critically evaluate factors affecting the success of innovations in start-ups and established organisations.

You will analyse and evaluate problems using a variety of tools and will develop a deeper understanding of the complexities of the innovation process. You will gain an understanding of what investors look for in entrepreneurs, managers and organisations, and you will discover the types of funding available. Your research, communication, leadership and team-working skills will be developed over the course of the programme, enabling you to compete effectively in the contemporary, dynamic business environment.

Modules

You will have the opportunity to study modules which focus on the following topics: innovation management; entrepreneurship; business planning; funding; business statistics; managerial economics; family business; intellectual property; understanding organisational failure. You will also complete a collaborative project and a research-based dissertation which can be independent or project-based with an organisation.

How you will be assessed

You can expect to complete essays and reports of varying lengths, as well as presentations, projects and case studies. Your dissertation will be a 10,000 word document.

How you will study

You will study through a series of lectures, seminars, project work and independent study. You will also have the opportunity to take part in guest lectures and seminars on a range of topics.

Who should study this programme?

If you are considering launching your own venture or you aspire to work with small start-ups, then this programme will provide you with the knowledge and experience needed to operate effectively in this environment. Similarly, if you would prefer to work as part of an established organisation or work in your own family business, this programme will give you a better understanding of the factors influencing the longer-term success of a business.

—
"I believe that the best way of developing as a researcher is by acquiring the latest knowledge and applying it to see possible impacts. My PhD has helped me to achieve this goal."
—

Entrepreneurship, Finance and Innovation

MSc

Full-time length: 1 year

Part-time length: up to 4 years

Entry requirements

Minimum of a 2:2 (55% or above) or equivalent overseas qualification. Certain optional modules require knowledge of algebra, introductory concepts of probability and basic maths.

Fees

Band L3 (see page 228 for details).

Programme overview

Our MSc Entrepreneurship, Finance and Innovation analyses the entrepreneur, the innovation process and the role of financial support when creating, growing and sustaining start-up companies and organisations.

This programme will give you the skills and knowledge needed to assess market needs and develop new and improved products. To put your new skills and experiences into practice, you will spend the duration of a module with a group of students working on a brief from a company to solve a real social or business problem.

The latest research on innovation and entrepreneurship is fed directly into the curriculum. This includes research into family businesses, venture capital and private equity, digital entrepreneurial activity, social network analysis, social entrepreneurship, governance, executive compensation and crowdfunding.

Modules

You will have the opportunity to study modules on the following topics: innovation management; entrepreneurship; market analysis and strategy; funding; small business finance; governance for start-up companies; business planning; business statistics; managerial economics. You will also complete a collaborative project and a dissertation.

How you will be assessed

You can expect to complete essays and reports of varying lengths, as well as presentations, projects, case studies and exams in some cases. For information about the assessments you will be expected to complete for each module, please see the module list for this programme online.

How you will study

You will study through a series of lectures, seminars, project work and independent study. You will also have the opportunity to take part in guest lectures and seminars on a range of topics.

Who should study this programme?

If you are looking for investment to support your own venture or you would like to work within a team that is in pursuit of funding, this programme would be ideal for you.

Managing Innovation in Creative Organisations

MSc

Full-time length: 1 year

Part-time length: up to 4 years

Entry requirements

Minimum of a 2:2 (55% or above) or equivalent overseas qualification.

Fees

Band L3 (see page 228 for details).

Programme overview

Our MSc Managing Innovation in Creative Organisations will encourage you to think analytically, plan strategically and act creatively to develop innovation processes in the creative industries.

Through academic and action-based learning, you will gain insight into the diverse environments in which creative industries exist and apply theory to assess and investigate the complex factors affecting the innovation process.

Future-orientated, user-focused design and strategy tools will help you to develop viable innovative and entrepreneurial solutions to social problems. Your research, communication, leadership and team-working skills will be developed through project-based learning, which will enhance your effectiveness in a contemporary business environment.

Modules

You will have the opportunity to study modules on the following topics: innovation management; design thinking for creative enterprise; entrepreneurship; foresight and strategy for creative business; intellectual property; business planning; creative business models; business statistics; understanding organisational failure. You will also complete a collaborative project and an independent research or project-based dissertation.

How you will be assessed

You can expect to complete essays and reports of varying lengths, as well as presentations, projects and case studies. For information about the assessments you will be expected to complete for each module, please see the module list for this programme online.

How you will study

You will study through a series of lectures, seminars, project work and independent study. You will also have the opportunity to take part in guest lectures and seminars on a range of topics.

Who should study this programme?

If you are looking to design solutions and business strategies for creative organisations, then this programme is ideal. Similarly, if you are planning on setting up your own creative venture or would like to develop innovative business solutions for other creative start-ups, then this programme is for you.

—
“We’re taught by experienced academics who are genuinely passionate about their research. Having access to this knowledge and sharing their vision is really inspiring.”
—





Magdalena

PhD student

"Loughborough University London has a creative and open-minded atmosphere. The lecturers and professors are all really knowledgeable and friendly, which makes working together more fun."



International Management

The Institute for International Management aims to become the leading centre for training and research into the successful management of international organisations across different national contexts.

The Institute is led by a team of highly ranked scholars with commanding knowledge of a range of aspects of international management. The Institute is actively engaged in international research projects concerning the globalisation of economic activity and the implications for patterns of work and governance. It will develop expertise in a range of emerging market economies over the next few years.

Innovative teaching and research
Professor Tony Edwards, the Director of the Institute, is a globally recognised Professor of International Management and has a track record of attracting high profile research grants from the Economic and Social Research Council (ESRC), the European Union and its agencies, and a range of practitioner bodies, such as the Chartered Institute of Personnel and Development, and the Institute of Small Business and Entrepreneurship.

Each programme offers teaching from world-leading academics and aims to deliver research-led teaching to its students. The Institute for International Management at Loughborough University London is committed to helping you develop the skills and attributes you need to progress successfully into a wide range of global management careers.

Inspiring location
London, one of the world's leading hubs for global business and trade, is the ideal location for students to expand their knowledge, expertise and networks. Our inspiring location offers a unique learning environment for anyone who shares a passion for international business, as Loughborough University London is surrounded by key influencers and innovators in business, and is just a short journey from Canary Wharf, London Bridge and Liverpool Street.

Our programmes

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International Management and Emerging Economies	p207
Management and Work in a Global Context	p208
Risk, Governance and International Management	p208



lboro.ac.uk/pg2019/international-management

Research opportunities

PhD: 3 years full-time; 6 years part-time
MPhil: 2 years full-time; 4 years part-time

Entry requirements

An honours degree (2:1 or above) or equivalent overseas qualification.

Fees

Band RA (see page 228 for details).

Supporting you

By pursuing one of our postgraduate research programmes, you will have the opportunity to work with top researchers and industry leaders, and gain first hand experience of real life problem-solving. As a PhD student with us, you will receive a comprehensive package of training and support to continue into a professional research career or to progress into a variety of roles with regional, international and multinational organisations and enterprises.

How to apply

All MPhil and PhD applications must be made online. We strongly recommend contacting your preferred research supervisor(s) in advance of submitting an application to discuss your ideas.

lborolondon.ac.uk/staff

Our areas of research

The Institute for International Management is actively engaged in international research projects concerning the globalisation of economic activity and the implications for patterns of work and governance.

Globalising actors/activists in multinational companies

The Institute is currently involved in a major ongoing ESRC funded project investigating globalising actors, namely those who create, disseminate and implement new global norms in multinational companies.

Law, corporate governance and development

This research area focuses on the role of macro-level factors in shaping globalisation, specifically how governments and international organisations, through their reform programmes, shape the convergence process of corporate governance practices.

The internationalisation of firms from emerging economies

A third area of study of the Institute is the rapidly growing outward foreign direct investment (OFDI) from emerging economies. This research area seeks to understand the institutional determinants and consequences of OFDI from emerging markets.

Comparative political economy of work

A fourth research area within the Institute focuses on the comparative and historical analysis of work and employment relations within Europe and North America. This includes investigating models of global best practice for work organisation and labour management, such as lean production and business process re-engineering.



Taught programmes

International Management

MSc

Full-time length: 1 year

Part-time length: up to 4 years

Entry requirements

Minimum of a 2:2 (55% or above) or equivalent overseas qualification.

Fees

Band L3 (see page 228 for details).

Programme overview

This programme will give you an in-depth understanding of the different national, institutional and cultural contexts in which firms operate, whilst developing essential analytical skills to prepare you for a career in the global economy.

You will also gain a broad, analytical and integrative understanding of diverse national contexts and their effect on economic activity around the world. You will study how emerging markets contexts influence the strategies of firms operating in these countries and will discover how to apply this knowledge to real life examples.

As a student you will benefit from the inspiring environment provided by London as a global city and from guest lectures delivered by entrepreneurs and business leaders across a range of industries.

Modules

You will have the opportunity to study modules on the following topics: management and governance in emerging markets; accounting and financial management; managing business in a diverse world; global strategy; international marketing; international human resource management; political risk in emerging markets; information systems; corporate political activity; corporate social responsibility; corporate governance; financial development. You will also complete a dissertation and a collaborative project.

How you will be assessed

You can expect to complete essays and reports of varying lengths, as well as presentations, projects and case studies.

How you will study

You will study through a series of lectures, seminars, project work and independent study. You will also have the opportunity to take part in guest lectures and seminars on a range of topics.

Who should study this programme?

This MSc is ideal for those passionate about business and who would like to know more about the opportunities and challenges affecting management, accounting, corporate governance and marketing in today's changing world.

International Management and Emerging Economies

MSc

Full-time length: 1 year

Part-time length: up to 4 years

Entry requirements

Minimum of a 2:2 (55% or above) or equivalent overseas qualification.

Fees

Band L3 (see page 228 for details).

Programme overview

Our MSc International Management and Emerging Economies will provide you with a comprehensive and integrated understanding of the particular challenges facing firms in emerging economies.

Specific issues include the process of economic reform, the pressures of globalisation and the opportunities for internationalisation at firm-level.

The Institute maintains a research interest in the comparative analysis of countries' institutional set-ups and how diverse national contexts affect economic activity around the world. This research is fed into the teaching of this programme to ensure you graduate with an understanding of the latest opportunities and pressures facing organisations in emerging economies.

Modules

You will have the opportunity to study modules on the following topics: comparative management; international business; political risk in emerging economies; global strategy and corporate finance; development; family-owned firms; entrepreneurship in emerging markets; human resources in emerging economies; the internationalisation of firms from emerging economies. You will also complete a dissertation.

How you will be assessed

You can expect to complete essays and reports of varying lengths, as well as presentations, projects and exams. For information about the assessments you will be expected to complete for each module, please see the module list for this programme online.

How you will study

You will study through a series of lectures, seminars, project work and independent study. You will also have the opportunity to take part in guest lectures and seminars on a range of topics.

Who should study this programme?

This programme is suited to individuals who are looking to combine expertise in international management with knowledge of the issues facing economies that are in transition and are becoming increasingly integrated into the global economy.

Management and Work in a Global Context

MSc

Full-time length: 1 year

Part-time length: up to 4 years

Entry requirements

Minimum of a 2:2 (55% or above) or equivalent overseas qualification.

Fees

Band L3 (see page 228 for details).

Programme overview

This interdisciplinary programme will draw on theories, principles and teaching from a broad range of disciplines to analyse how macro-level global competitive pressures and national institutions impact the management of people in different organisations.

We will discuss the role of formal and cultural institutions in shaping organisations and the economy, and will evaluate how models of global best practice regarding work organisation and labour management spread unevenly across national borders.

You will also gain a detailed insight into the impact of workplace politics and culture, and how these factors can shape the organisation of work and present problems of conflict, negotiation and accommodation.

Modules

You will have the opportunity to study modules on the following topics: comparative management; international human resource management; comparative political economy; comparative employment relations; sociology of work; global strategy; international human resource management and sustainability; diversity management in global organisations. You will also complete a collaborative project and a dissertation.

How you will be assessed

You can expect to complete essays and reports of varying lengths, as well as presentations, projects and exams. For information about the assessments you will be expected to complete for each module, please see the module list for this programme online.

How you will study

You will study through a series of lectures, seminars, project work and independent study. You will also have the opportunity to take part in guest lectures and seminars on a range of topics.

Who should study this programme?

This programme is designed for individuals with an interest in how businesses and other economic actors are influenced by sectoral, national and global institutions, and the differing institutional trajectories along which regional and national economies develop.

Risk, Governance and International Management

MSc

Full-time length: 1 year

Part-time length: up to 4 years

Entry requirements

Minimum of a 2:2 (55% or above) or equivalent overseas qualification.

Fees

Band L3 (see page 228 for details).

Programme overview

You will develop a comprehensive understanding of the strategies used by multinational companies to manage risks arising from their environment.

You will acquire the increasingly valuable knowledge and skills required to identify, evaluate and respond to risks facing multinational organisations operating in a rapidly changing global context. We will examine how companies use corporate political activity, corporate social responsibility and corporate governance to navigate opportunities and challenges arising from changes in international economic governance, foreign policy and international politics.

Whether your goal is to lead your own global business or support the success of an existing organisation, you will be encouraged to make the most of the campus' iconic location to build professional relationships with organisations in London that interest you the most.

Modules

You will have the opportunity to study modules on the following topics: comparative management; international business; international governance; political risk; corporate political activity; corporate lobbying; corporate social responsibility; international economic governance; global politics and political risk assessment. You will also complete a dissertation and a collaborative project.

How you will be assessed

You can expect to complete essays and reports of varying lengths, as well as presentations, projects and exams. For information about the assessments you will be expected to complete for each module, please see the module list for this programme online.

How you will study

You will study through a series of lectures, seminars, project work and independent study. You will also have the opportunity to take part in guest lectures and seminars on a range of topics.

Who should study this programme?

This programme is suited to those with an interest in international management with a focus on the increasingly important question of risk, emanating from a multinational company's social, natural, political and regulatory environment.



—
“Loughborough University London is an ambitious but supportive postgraduate community. My peers are my family, not just my schoolmates.”
—



Victor

MA Media and Creative Industries

"I love the way each of the modules are taught – they combine theory with loads of practice."



Media and Creative Industries

The Institute for Media and Creative Industries is dedicated to sharing critical understandings and developments of the media and creative industries, along with insights into the broader economic, social and political issues facing each area.

London is one of the world's principal hubs for media and communication and is the primary destination for many national and international agencies operating in the media and creative industries. Loughborough University London is located in East London, which is home to more artists and creatives than anywhere else in Europe.

World-leading research

The Institute for Media and Creative Industries provides students with a profound understanding of how the media and creative sectors operate by sharing knowledge and expertise from a range of industries, including music, the press, film, television, social media, the arts, tourism and the internet.

The Institute includes an internationally renowned research community who share an interest in the growth and impact of media and the creative industries. The Institute focuses on four key areas of media development and delivery:

- infrastructure
- labour
- output
- audiences

By pursuing a postgraduate research programme with the Institute for Media and Creative Industries, individuals will have the opportunity to work with top researchers in the field and gain first hand experience of real life problem-solving.

Our programmes

Research opportunities	p212
Communication and Cultural Policy	p213
Global Communication and Development	p213
Media and Creative Industries (MA)	p214
Media and Creative Industries (MRes)	p214

Research opportunities

PhD: 3 years full-time; 6 years part-time
MPhil: 2 years full-time; 4 years part-time

Entry requirements

An honours degree (2:1 or above) or equivalent overseas qualification.

Fees

Band RA (see page 228 for details).

Supporting you

By pursuing one of our postgraduate research programmes, you will have the opportunity to work with leading researchers in media and communications. The Institute for Media and Creative Industries has a lively community of postgraduate students who conduct cutting-edge critical research at the forefront of developments in the field. As a PhD student with us, you will receive a comprehensive package of training and support to continue into a professional research career, or to progress into a variety of roles with regional, international and multinational organisations and enterprises.

How to apply

All MPhil and PhD applications must be made online. We strongly recommend contacting your preferred research supervisor(s) in advance of submitting an application to discuss your ideas.

lborolondon.ac.uk/staff

Our areas of research

The Institute for Media and Creative Industries boasts a talented, close-knit research community, with a shared passion for the growth and impact of research on communication and media content, technologies and structures.

The Institute maintains a strong interest in the relationships between media and communication and technological, social and cultural change. Current research considers the implications of technological transformations and social change, including social, cultural, political and economic relationships and movements, as well as social media and activism in contemporary and historical contexts. Much of the research in the institute is collaborative and interdisciplinary, connecting to local and global communities and organisations. The Institute also works with community groups, cultural institutions and global agencies to explore the applications of their latest research.

The Institute has a particular strength in ethnography, participatory approaches, oral histories, archival research and textual analysis. The Institute explores the application of these methodological approaches to critical studies of gender, sexuality, identity, race and ethnicity. The Institute is also interested in notions of mobility (people and technologies), place, creativity and labour, and the communication practices and infrastructures that connect and disconnect, enable and constrain.

Our academics cover a range of research interests including legacy and new media and communication structures, regulations and practices. We have experience of conducting empirical research across the globe and are particularly interested in global perspectives on media, communications and social life.

—
“Studying at a university that is highly-regarded in the media field will broaden my outlook and offer me the best opportunities to secure my dream career in media.”
—

Taught programmes

Communication and Cultural Policy

MA

Full-time length: 1 year

Part-time length: up to 4 years

Entry requirements

An honours degree (2:1 or above) or equivalent overseas qualification.

Fees

Band L1 (see page 228 for details).

Programme overview

This programme will explore the debates surrounding the implications of communication and cultural policies for democracy, equality and the economy, to prepare you for employment across a broad range of industries.

You will develop an understanding of the conceptual foundations of cultural policy from an international context. You will also learn how to interpret, evaluate and apply advanced knowledge on the theory, history and comparative aspects of cultural policy in an innovative way, fostering your ability to critically analyse communication and cultural policies across a broad range of global and national contexts.

Modules

You will have the opportunity to study modules on the following topics: media contexts and practices; researching media industries; communications and cultural policy; global cities, media and communications; media audiences, users and markets; design thinking; communication and politics in North Africa and the Middle East; sport media and marketing; creative industries in a global perspective; cultural industries and creative labour/cultural work; social identities and digital media; media and social movements; media cultures of South Asia; media law and policy. You will also complete a collaborative project and a dissertation.

How you will be assessed

You can expect to complete essays and reports of varying lengths, as well as presentations, proposals and case studies.

How you will study

You will study through a series of lectures, seminars, supervised project work and independent study. You will also have the opportunity to take part in guest lectures and seminars on a range of topics.

Who should study this programme?

This programme is suited to individuals aspiring to enter a career in a variety of communication and policy-making roles in a variety of sectors.

Global Communication and Development

MA

Full-time length: 1 year

Part-time length: up to 4 years

Entry requirements

An honours degree (2:1 or above) or equivalent overseas qualification.

Fees

Band L1 (see page 228 for details).

Programme overview

Our MA Global Communication and Development investigates the debates surrounding communications and cultural policies for democracy, equality and the economy, focusing on diverse markets such as Latin America, South Africa and Asia.

You will develop a deep understanding of communications and development in a changing global context. You will consider major traditions, theories and frameworks of inquiry relevant to the analysis of global communications and development.

Modules

You will have the opportunity to study modules on the following topics: critical studies of globalisation, communication and social change; researching media industries; media and social movements; media and popular culture in Latin America; communication and politics in North Africa and the Middle East; media cultures of South Asia; network information and communications policy; social identities and digital media; creative industries in a global perspective; media and social movements; media audiences, users and markets; cultural industries and creative labour/cultural work; media law and policy; tourism and heritage industries. You will also complete a collaborative project and a dissertation.

How you will be assessed

You can expect to complete essays and reports of varying lengths, as well as presentations, proposals and case studies. For more information, please see the module list for this programme online.

How you will study

You will study through a series of lectures, seminars, project work and independent study. You will also have the opportunity to take part in guest lectures and seminars on a range of topics.

Who should study this programme?

This programme is suited to those looking to pursue a career in media, communication and development within a global public, private or third sector organisation.

Media and Creative Industries

MA

Full-time length: 1 year

Part-time length: up to 4 years

Entry requirements

An honours degree (2:1 or above) or equivalent overseas qualification.

Fees

Band L1 (see page 228 for details).

Programme overview

Our MA Media and Creative Industries programme explores cultural theories, as well as political, gender and social movements. You will learn from a passionate faculty of leading academics, offering a vibrant insight into the media and creative industries, information science, law, anthropology, political economy, social theory, ethnic studies and more.

On completion of the programme, you will be prepared for employment in a variety of media and communication roles within public, private or third sector companies, ranging from sport, gaming and technology to press, policy and community-led initiatives. Graduates will also have the opportunity to study a PhD.

Modules

You will have the opportunity to study modules on the following topics: media and creative industries: contexts and practices; researching media industries; global cities, media and communication; creative industries in a global perspective; media audiences, users and markets; cultural industries and creative labour/cultural work; social identities and digital media; media and social movements; the history of media technology; media cultures of South Asia; media law and policy. You will also complete a collaborative project and a dissertation.

How you will be assessed

You can expect to complete essays and reports of varying lengths, as well as presentations, proposals and case studies in some cases. For information about the assessments you will be expected to complete for each module, please see the module list for this programme online.

How you will study

You will study through a series of lectures, seminars, project work and independent study. You will also have the opportunity to take part in guest lectures and seminars on a range of topics.

Who should study this programme?

Our MA Media and Creative Industries is suited to those looking for a varied insight into the inner workings and challenges affecting the media and the creative industries, including press, policy and community-led organisations.

Media and Creative Industries

MRes

Full-time length: 1 year

Part-time length: up to 4 years

Entry requirements

An honours degree (2:1 or above) or equivalent overseas qualification in a wide range of subjects. In exceptional circumstances, an applicant may be admitted onto the programme who does not possess the requirements mentioned but who has substantial relevant work experience.

Fees

Band L1 (see page 228 for details).

Programme overview

Studying an MRes with one of the UK's top universities for media (Guardian University Guide 2019) will enable you to join a passionate research community, and gain specialised knowledge on media context and practices, as well as critical perspectives on different media platforms and industries.

You will be able to access a tailor-made professional development programme mapped to the Vitae Researcher Development Framework, which will support you to market yourself and your skills in order to secure a rewarding research career. You will gain access to exclusive workshops and will attend key events and networking opportunities with staff, researchers and leaders of industry.

Modules

You will study modules such as: research design, practice and ethics; quantitative research methods; foundations in qualitative research, as well as two optional modules from your discipline. In addition, you will undertake a collaborative project and a major research project under the supervision of an academic member of staff, which can also be supported by an external organisation.

How you will be assessed

You can expect to complete essays and reports of varying lengths, as well as presentations, proposals and case studies. For information about the assessments you will be expected to complete for each module, please see the module list for this programme online.

How you will study

You will study through a series of lectures, seminars, project work and independent study. You will also have the opportunity to take part in guest lectures and seminars on a range of topics.

Who should study this programme?

Our multidisciplinary MRes programme will provide you with an opportunity to widen your research skills, focus your interests and take the next step towards a PhD.

"I have been lucky enough to visit many places across the world but there is something so special about London. The whole city fascinates me."





Media and Creative Industries

Senior Lecturer receives United St Saviours award for work to defend the rights of migrant women in London

Senior Lecturer in Media and Creative Industries, Dr Patria Roman-Velazquez, has been recognised by United St Saviours for the significance of her research and the progress made through her charity, Latin Elephant.

Dr Roman-Velazquez received the award for her research and determination to support the inclusion of migrant and ethnic women during the redevelopment of Elephant and Castle in London.

Latin Elephant was founded in 2014 by Dr Roman-Velazquez and aims to promote participation, engagement and inclusion of migrant and ethnic groups. The charity is actively working to amplify community voices in Elephant and Castle, and raise awareness of the contribution that Latin American and other migrant and ethnic traders are making to the area.

The charity has already made a significant contribution to policy and trade agreements concerning the regeneration of Elephant and Castle, an area of London which is home to a large community of migrant and ethnic traders. Many of the traders are women and their businesses are the primary source of income for their families.

The charity champions engagement with other London-based universities and offers a capacity-building programme for migrant and ethnic traders affected by regeneration. The programme includes interactive workshops on finance, employment and commercial property law.

Speaking of the award, Patria said: "I know what it is to be a migrant, to live in poverty and to be discriminated against. I am accepting this recognition on behalf of all migrant women who have overcome inequality and contributed to making their community a better place."

 lboro.ac.uk/pg2019/inspiringstories



Charlie

MSc Sport Business and Leadership

"I've had the opportunity to network with some of the UK's best sports technology start-ups and I've even got to work with Chelsea Football Club to improve their fan-engagement strategy."



QS WORLD RANKINGS
BY SUBJECT 2018

1ST IN THE WORLD
FOR SPORTS-RELATED
SUBJECTS



THE TIMES GOOD
UNIVERSITY GUIDE 2017
UNIVERSITY OF THE YEAR
FOR SPORT

Sport Business

The Institute for Sport Business works to continue the legacy of the London 2012 Olympic Games by delivering a dynamic and pioneering range of programmes to deliver excellence across the sport business sector.

Named as the world's best university for sports-related subjects for two consecutive years (QS World Rankings by Subject 2017 and 2018), Loughborough has an outstanding reputation for developing the world's leading graduates in sport business.

The Institute for Sport Business includes an interdisciplinary, research-led team, incorporating internationally recognised researchers interested in the business of sport. The Institute seeks to deliver research with a real world impact in an era of significant social, economic and technological change. Recent

research has examined the rapid growth in the business of sport, as well as leadership and change, innovation, technology, and social responsibility.

Unrivalled location

London is rapidly becoming the world's leading hub for sport business and is the ideal location for students to expand their knowledge, expertise and networks. Loughborough University London is surrounded by key influencers and innovators in the field of sport, including BT Sport, the Olympic Legacy Corporation and West Ham United Football Club. The Institute is proud to partner with a number of London-based leaders in sport, including BT Sport, CSM Strategic, West Ham United Foundation, Global Sports Jobs, Chelsea Football Club, the Sport Industry Group, Two Circles, Foundation for Leadership through Sport, the Sport Technology Awards, and Mill Harbour Marketing.

Our programmes

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Sport Business and Innovation	p222
Sport Business and Leadership	p222
Sport Marketing	p223



lboro.ac.uk/pg2019/sport-business

Research opportunities

PhD: 3 years full-time; 6 years part-time
MPhil: 2 years full-time; 4 years part-time

Entry requirements

An honours degree (2:1 or above) or equivalent overseas qualification.

Fees

Band RB (see page 228 for details).

Supporting you

By undertaking a PhD with the world's premier university for sports-related subjects (QS World Rankings by Subject 2018), you will have the opportunity to work with top researchers and industry leaders, and gain first hand experience of real life problem solving. You will receive a comprehensive package of training and support to continue into a professional research career, or to progress into a variety of roles with regional, international and multinational sport businesses and enterprises.

How to apply

All MPhil and PhD applications must be made online. We strongly recommend contacting your preferred research supervisor(s) in advance of submitting an application to discuss your ideas.

lboro.ac.uk/staff

Our areas of research

Research by the Institute for Sport Business focuses on money, morality and meaning, and the implications of these factors on sport business. As such, the Institute maintains an interest in the following research topics:

Sport consumer engagement

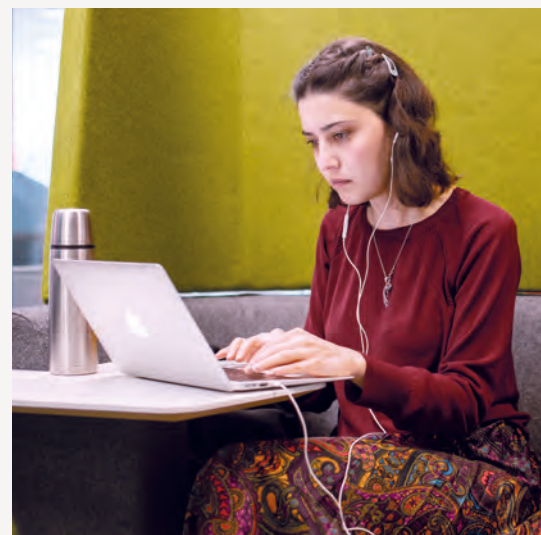
- fan and consumer experiences
- sport product and service evaluation
- athlete and player support and welfare.

Sport enterprise performance

- leadership and organisational systems
- innovation and culture
- technologies, data, analytics and futures.

Sport social innovation

- sport development and peace
- social impact, capital and legacy
- sport and (C)SR.



—
"Being located on Queen Elizabeth Olympic Park has enabled me to continue my interest in sports volunteering. I am an active volunteer for The Park and for a local youth service, Young Hackney."
 —

Taught programmes

Sport Analytics and Technologies

MSc

Full-time length: 1 year

Part-time length: up to 4 years

Entry requirements

An honours degree (2:1 or above) or equivalent overseas qualification.

Fees

Band L2 (see page 228 for details).

Programme overview

You will investigate cases of data driven decision-making and strategy formulation to outline how statistical analysis and data visualisation is informing sport business trends and solutions. You will examine how the sport industry is actively embracing digital technologies to improve performance and shake-up tired and redundant business practices.

Together the faculty will introduce you to the latest research and devices driving the sport digital and media environment, and other related areas.

Modules

You will have the option to study modules on the following topics: new media and analytics for sport business; digital sport technologies: evolution and application; sports business and innovation; analysing the construction of leadership for a sport context; sport integrity: regulation and law; sport integrity issues and ethics; sport economics and law; sport marketing; sport business statistics and analytics; strategic sports sponsorship. You will also complete a collaborative project and a dissertation.

How you will be assessed

You can expect to complete essays and reports of varying lengths, as well as presentations, proposals and case studies in some cases. For more information, please see the module list for this programme online.

How you will study

You will study through a series of lectures, seminars, project work and independent study. You will also have the opportunity to take part in guest lectures and seminars on a range of topics.

Who should study this programme?

This programme is suited to those looking for a development, analyst, management or consultancy role in the sport, digital or media sectors.

Sport Business

MRes

Full-time length: 1 year

Part-time length: up to 4 years

Entry requirements

An honours degree (2:1 or above) or equivalent overseas qualification in a wide range of subjects. In exceptional circumstances, an applicant may be admitted onto the programme who does not possess the requirements mentioned but who has substantial relevant work experience.

Fees

Band L2 (see page 228 for details).

Programme overview

Our MRes Sport Business will give you a fascinating introduction into the life of a doctoral researcher with the world's number one university for sports-related subjects (QS World Rankings by Subject 2018), whilst developing your knowledge of the latest research into sport business.

Alongside the taught elements of this programme, you will be able to access a tailor-made professional development programme mapped to the Vitae Researcher Development Framework, which will support you to market yourself and your skills in order to secure a rewarding research career.

Modules

You will study topics such as: research design, practice and ethics; quantitative research methods; foundations in qualitative research, as well as two optional modules from your discipline. In addition, you will undertake a collaborative project and a major research project under the supervision of an academic member of staff, which can also be supported by an external organisation.

How you will be assessed

You can expect to complete essays and reports of varying lengths, as well as presentations, proposals and case studies. For more information, please see the module list for this programme online.

How you will study

You will study through a series of lectures, seminars, project work and independent study. You will also have the opportunity to take part in guest lectures and seminars on a range of topics.

Who should study this programme?

This programme is suited to those wanting to explore the latest research into sport business. It will widen your skills, focus your interests and enable you to take the next step towards a research career.

Sport Business and Innovation

MSc

Full-time length: 1 year

Part-time length: up to 4 years

Entry requirements

An honours degree (2:1 or above) or equivalent overseas qualification.

Fees

Band L2 (see page 228 for details).

Programme overview

Our MSc Sport Business and Innovation provides an understanding of key management and marketing principles, including the development of business strategies and innovation in sport.

This programme provides you with opportunities to develop innovative solutions to real problems that are currently facing sport businesses today, allowing you to gain a competitive advantage when applying for positions in the sector.

You will examine the rapid growth in the business of sport and its accompanying impacts in an era of significant social, economic and technological change. Through this examination you will be able to identify industry trends, understand customer needs, and establish and evaluate the organisational practices required to remain competitive in a global sport marketplace.

Modules

You will have the opportunity to study modules on the following topics: organisational behaviour in the sport industry; sport economics and law; new media and analytics for sport business; sport business statistics and analytics; sports business and innovation; analysing the construction of leadership for a sport context; sport integrity issues and ethics; digital sport technologies: evolution and application; sport marketing. You will also complete a collaborative project and a dissertation.

How you will be assessed

You can expect to complete essays and reports of varying lengths, as well as presentations, proposals and case studies. For information about the assessments you will be expected to complete for each module, please see the module list for this programme online.

How you will study

You will study through a series of lectures, seminars, project work and independent study. You will also have the opportunity to take part in guest lectures and seminars on a range of topics.

Who should study this programme?

This programme is suited to individuals with a passion for sport business who are looking to gain a better understanding of the inner workings of the sector.

Sport Business and Leadership

MSc

Full-time length: 1 year

Part-time length: up to 4 years

Entry requirements

An honours degree (2:1 or above) or equivalent overseas qualification.

Fees

Band L2 (see page 228 for details).

Programme overview

Our MSc Sport Business and Leadership programme is designed for individuals looking for leadership and management positions within the sport business industry. You will visit a number of influential sport leadership environments and receive guidance from top leaders in the field.

You will be immersed in the business of sport and will enhance your professional leadership capacity and business acumen in relation to a global sport business environment. You will also be exposed to some of the latest opportunities and challenges confronting sport organisations at a global, national and local level.

You will learn how to connect theory with practice by attending a number of inspiring field visits. Past visits have included Sandhurst Military Academy, The Royal Opera, UK Sport, KPMG, the RFU, Google, and Wimbledon.

Modules

You will have the option to study modules on the following topics: leadership models and practices: application to a sport context; analysing the construction of leadership for a sport context; sustainability and leadership for sport organisations; critical reflective leadership and sport management; sports business and innovation; sport integrity: regulation and law; sport integrity: issues and ethics; sport economics and law; new media and analytics for sport business; sport marketing; sport business statistics and analytics; strategic sports sponsorship. You will also complete a collaborative project and a dissertation.

How you will be assessed

You can expect to complete essays and reports of varying lengths, as well as presentations, proposals and case studies. For more information, please see the module list for this programme online.

How you will study

You will study through a series of lectures, seminars, project work and independent study. You will also have the opportunity to take part in guest lectures and seminars on a range of topics.

Who should study this programme?

This programme is designed for individuals who wish to improve their impact and effectiveness in leading and managing individuals, teams and organisations within the sport business industry.

Sport Marketing

MSc

Full-time length: 1 year

Part-time length: up to 4 years

Entry requirements

An honours degree (2:1 or above) or equivalent overseas qualification.

Fees

Band L2 (see page 228 for details).

Programme overview

Our MSc Sport Marketing programme will enable you to develop a complex understanding of the latest sport marketing and business management techniques. You will discover the latest sport marketing tools used by real organisations in the industry, and will analyse and evaluate some of the challenges faced by sport marketers today.

You will discover how to create successful sport marketing strategies using market research, targeted marketing techniques and marketing communications knowledge, as well as project management and campaign monitoring skills. Graduates of this programme will be suited to roles in brand management, marketing communications, social media marketing and digital marketing.

Modules

You will have the opportunity to study modules on the following topics: sport marketing; strategic sports sponsorship; international marketing; design innovation project; sport economics and law; sport business statistics and analytics; sports business and innovation; new media analytics for sport business. You will also complete a collaborative project and a dissertation.

How you will be assessed

You can expect to complete essays and reports of varying lengths, as well as presentations, proposals and case studies. For more information, please see the module list for this programme online.

How you will study

You will study through a series of lectures, seminars, project work and independent study. You will also have the opportunity to take part in guest lectures and seminars on a range of topics.

Who should study this programme?

This programme is suited to individuals looking for a marketing and communications role within the sport sector. You will gain insights from leading sport business academics and professionals so that you can uncover the tools needed for success.



Institute for Sport Business

Student entrepreneur launches successful swimming enterprise

MSc Sport Business and Innovation student, Diccon Loy has seen enormous success following the launch of his inspiring social enterprise, Marathon Swims.

Marathon Swims is the ultimate mass participation swimming series, offering pool-based 10K, 5K and 1K swimming challenges. The first series was held in November 2017 at the London Aquatics Centre on Queen Elizabeth Olympic Park. The event sold out in less than two months and saw hundreds of people challenging themselves and raising money for the registered charity partner, Cancer Research UK.

Swimming is one of the nation's most popular sports, however, only a small number of mass-participation swimming events have taken place in the UK over recent years. Of these previous swimming challenges, none have been able to attract the same exposure as running, cycling or triathlon events.

Diccon's ambition for Marathon Swims is to establish an ultimate swimming challenge that rivals the excitement of other national sports events in the UK. He hopes that the challenges will inspire swimmers of all abilities to improve their confidence, stay active and reach new fitness goals.

Marathon Swims was shortlisted for Participation Event of the Year in the BT Sport Industry Awards 2018 and the Best New Concept, Build or Design Award at the UK Active Awards 2018. Speaking of the awards, Diccon said: "It is huge honour to receive two award nominations, alongside some excellent and established events. Swimming is a fantastic sport – 4.86 million swim at least twice a month. Marathon Swims gives these people the opportunity to challenge themselves over a significant distance and raise money for charity."

To find out more or to register for the next Marathon Swims event, please visit marathonswims.com or follow Marathon Swims on Twitter: @MarathonSwims



lboro.ac.uk/pg2019/inspiringstories

Next steps

Now you have decided to continue your journey, it is time to consider how you intend to fund your studies. Although you may have undertaken an undergraduate degree, organising the payment of your postgraduate fees can seem daunting at first.

To help you as much as possible, we have included in this next section lots of useful information about the fees you can expect to pay and the different types of postgraduate funding options available. You will also find information on our master's and research application processes.



Tuition fees

Studying a postgraduate programme with Loughborough University is a significant but incredibly rewarding investment into your future.



2019/20 postgraduate taught fees

Tuition fees shown are for new students commencing the first year of study in the specified year only. Subsequent years of study are typically subject to an increase. To find out the fee band for your programme, please check the relevant school or department pages.

Fee band	UK/EU	International
Band 1	£8,950	£18,250
Band 2	£13,400	£20,300
Band 3	£10,650	£22,500
Band 4	£13,400	£21,900
Band L1	£10,550	£19,000
Band L2	£10,550	£24,750
Band L3	£14,100	£25,500
MBA	£28,500	£28,500

2019/20 postgraduate research fees

Tuition fees shown are for new students commencing the first year of study in the specified year only. Subsequent years of study are typically subject to an increase. To find out the fee band for your programme, please check the relevant school or department pages.

Fee band	UK/EU	International
Band RA	See website	£16,900
Band RB	See website	£21,100

What's included

Tuition fees cover the cost of your registration, teaching, assessments and access to facilities such as the library, IT equipment and other support services. The cost of tuition fees does not cover general study costs for books, stationery and personal IT equipment. Additional costs may apply for some programmes, such as the cost of lab safety equipment, field trips and craft materials.

Bench fees

Bench fees will apply to a small number of students where the proposed research project is expected to incur larger than average costs. The bench fee will be made clear on any offer letter issued by the University.

Part-time and continuing students

Tuition fees increase annually. Therefore, if your programme is studied full-time or part-time over two or more academic years, the fee amount for your second (and subsequent years) will be higher. Further information can be found on our website.

Loans for postgraduates

Eligible UK and EU master's students can borrow up to £10,609 to support their postgraduate studies. For more information see p231. Eligible doctoral research students can also borrow up to £25,000. For more information, see p232.

Fees and Financial Support

studentenquiries@lboro.ac.uk
lboro.ac.uk/pg2019/funding



Master's funding

After deciding to take on the challenges and experiences of a master's degree, the next step for many students is confirming how to fund their studies.

University scholarships and bursaries

Our scholarships and bursaries range from 10% to 100% towards the cost of postgraduate taught tuition fees, with funding also available for talented arts students and athletes. To see a selection of our scholarships and bursaries for 2019, please see the table on the opposite page. For advice on funding for postgraduate research, please see p232.

Other sources of funding

There are a number of additional sources that could help you to fund your studies. Many trusts and charities offer grants, awards and loans for postgraduates in a range of subjects. For more information, please visit our funding pages online.

UK Government master's loan

If you are a UK or EU student living in England, you may be eligible to apply for a loan of up to £10,609 to support the cost of your studies. Loan repayments will begin after you have completed your programme and have an annual income of over £21,000. Students from Scotland, Wales and Northern Ireland also have access to government funding for postgraduate study.

2019/20 University scholarships and bursaries

Type	Description	Campus	Amount
Inspiring Success Scholarship	For selected unemployed and underemployed graduates from Hackney, Tower Hamlets, Newham or Waltham Forest.	London	100% towards tuition fees
Dean's Award for Enterprise	For selected UK, EU and international students with an inspiring business idea.	London	Up to 90% towards tuition fees
Santander Taught Postgraduate Scholarship	For selected UK, EU and international self-funded, full-time students.	Loughborough, London	£5,000 towards tuition fees
Academic Excellence Scholarship	For students with excellent academic achievement, normally a high 2:1 or first class degree (or equivalent).	London	20% towards tuition fees
Alumni Bursary	For students who obtained their previous degree from Loughborough University.	Loughborough, London	10% towards tuition fees
School Scholarships	For students with excellent academic achievement, normally a 2:1 or first class degree (or equivalent).	Loughborough	Variable
Loughborough Sports Scholarship	For talented student athletes performing at junior international level or higher.	Loughborough	£500-£3,500
LU Arts Scholarship Programme	For exceptionally talented students across a variety of art forms.	Loughborough	Please see website

How to apply

Many of our scholarships and bursaries will be allocated automatically on the basis of your postgraduate application and your final results, whilst others require submission of an application form. To find out more about our scholarships and bursaries, please visit: lboro.ac.uk/pg2019/funding

Research funding

Whether you intend to fund yourself or obtain funding from elsewhere, it is important to confirm your plans for funding for the duration of your research degree.

University studentships

Our studentships typically cover the full cost of fees and may also include a tax-free stipend for living costs. In some cases, additional funding will be provided for research support expenses.

Loughborough Alumni Bursary

Loughborough University is proud to offer 20% towards the full cost of tuition fees for self-funding postgraduate research students who obtained their previous degree from Loughborough University or Loughborough University London. Students must not be in receipt of any other award.

Other sources of funding

A large number of independent organisations, charities and trusts support postgraduate research in a variety of areas. UK Research Councils offer a number of studentships and grants for doctoral study, which often include the cost of fees and a generous stipend. These studentships are advertised on our website.

International PhD funding

International students may be eligible for funding from grant awarding bodies in their own country, such as the Ministry or Department of Education. The British Council also manage a small number of international grants that may be available to you.

UK Government doctoral loans

The UK Government has introduced new doctoral loans of up to £25,000 for PhDs and equivalent postgraduate research programmes. The loan is suitable for full-time and part-time postgraduate research students undertaking programmes lasting up to eight years. For eligibility information, please see our website.





How to apply

Applying for a master's degree

Applications should be made via the University's online application portal. Your application must be supported by documentary evidence to prove that you meet the entry requirements. This includes your academic qualifications, references and transcripts, as well as English language qualifications, if appropriate. If you are awaiting results, you can upload the documents you do have and upload outstanding documents when they become available.

Postgraduate Taught Admissions

+44 (0)1509 222496
pgtaught@lboro.ac.uk

Applying for a research degree

To submit an application, please use the University's online application portal. If you wish to apply for a studentship, you do not need to develop a research proposal; instead please quote the studentship reference number on your application.

For non-studentship applications (eg if you are self-funding or have secured funding from an external body), you will need to confirm which member of academic staff you have spoken to from the school or department and you may need to submit a research proposal. This is typically 500 words long and advice on what to include in it can be found on our 'How to apply' pages online.

All students applying for a research programme will need to provide evidence that they meet the entry requirements. This includes academic transcripts and certifications, references and English language qualifications, if appropriate. If you are awaiting results then you can upload the documents you do have and upload any that are outstanding when they become available.

Postgraduate Research Admissions

+44 (0)1509 228292
pgresearch@lboro.ac.uk

What happens next?

You will receive an acknowledgement email once your completed application has been submitted and we will then start to process your application – this can take up to four weeks. You can log into the application portal at any time to track the progress of your application.

If your application is successful, we will send you an email with details of any conditions you must meet before your place is confirmed. To secure your place, you must log back into the application portal and accept the offer.

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Loughborough University has taken care that this prospectus is as accurate as possible at the time of going to press (August 2018). It is intended as a general guide to the courses and facilities available to students commencing a programme of postgraduate study or research in academic year 2019/20.

Please note that although we do not anticipate that there will be major changes to the information provided in the prospectus, it is prepared a considerable time in advance and the University reserves the right to revise courses and their modules to ensure they remain current and up-to-date, to respond to external developments, and for a number of practical reasons. Before making an application please check our online prospectus to ensure you have the most up-to-date information. The University's Terms and Conditions of Study (www.lboro.ac.uk/study/terms-conditions) provide more details of the circumstances in which we may amend our courses both after application and whilst students are registered. The University will try to keep applicants and current students informed of any changes.

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