OPEN DAYS

OPEN DAYS:
Wednesday 21 January 2015 4pm – 7pm
Wednesday 25 March 2015 5pm – 8pm
Wednesday 27 May 2015 4pm – 7pm
Please book online by clicking the Open Days button on the Brunel home page

ADMISSIONS AND COURSE ENQUIRIES
www.brunel.ac.uk/contact-admissions
www.brunel.ac.uk/courses/admissions
+44 (0)1895 265599 (Course Enquiries before applying)
+44 (0)1895 265265 (Admissions Office after applying)

HOW TO APPLY
You will find a link to an online application form on every Web course page:
www.brunel.ac.uk/courses/pg
More information on how to apply for research degrees:
www.brunel.ac.uk/apply-pgr

WEBINARS
www.brunel.ac.uk/international/choose-brunel/webchat

SUMMARY OF TERMS
All applicants and potential applicants are encouraged to read the Summary of Terms on page 136.
# CONTENTS

<table>
<thead>
<tr>
<th>Topic</th>
<th>Page</th>
</tr>
</thead>
<tbody>
<tr>
<td>Open Days</td>
<td>2</td>
</tr>
<tr>
<td>Welcome to Brunel</td>
<td>4</td>
</tr>
<tr>
<td>Campus life</td>
<td>5</td>
</tr>
<tr>
<td>World class research</td>
<td>8</td>
</tr>
<tr>
<td>Quality programmes</td>
<td>9</td>
</tr>
<tr>
<td>Innovative courses</td>
<td>9</td>
</tr>
<tr>
<td>Excellent employment prospects</td>
<td>10</td>
</tr>
<tr>
<td>Careers and employability support</td>
<td>11</td>
</tr>
<tr>
<td>Working while you study</td>
<td>11</td>
</tr>
<tr>
<td>The Graduate School</td>
<td>12</td>
</tr>
<tr>
<td>Brunel International</td>
<td>14</td>
</tr>
<tr>
<td>Study resources</td>
<td>16</td>
</tr>
<tr>
<td>The Library</td>
<td>16</td>
</tr>
<tr>
<td>Computer Centre and Media Services</td>
<td>17</td>
</tr>
<tr>
<td>Assistive Technology Centre</td>
<td>17</td>
</tr>
<tr>
<td>Accommodation</td>
<td>19</td>
</tr>
<tr>
<td>Support, health and wellbeing</td>
<td>20</td>
</tr>
<tr>
<td>Disability and Dyslexia Service</td>
<td>23</td>
</tr>
<tr>
<td>Arts and culture</td>
<td>24</td>
</tr>
<tr>
<td>Sport</td>
<td>25</td>
</tr>
<tr>
<td>Taught courses information</td>
<td>26</td>
</tr>
<tr>
<td>Research degrees information</td>
<td>28</td>
</tr>
<tr>
<td>Brunel Integrated PhD</td>
<td>30</td>
</tr>
<tr>
<td>Fees and funding</td>
<td>32</td>
</tr>
<tr>
<td>Taught courses by subject area</td>
<td>37</td>
</tr>
<tr>
<td>Research degrees by subject area</td>
<td>99</td>
</tr>
<tr>
<td>Summary of Terms</td>
<td>136</td>
</tr>
<tr>
<td>Visiting Brunel</td>
<td>140</td>
</tr>
<tr>
<td>Campus map</td>
<td>143</td>
</tr>
<tr>
<td>Index</td>
<td>146</td>
</tr>
</tbody>
</table>
Brunel University London is a leading international university that addresses the challenges facing society through groundbreaking research and educational programmes. Brunel was founded in 1966 as a new kind of university dedicated to providing research and teaching that are relevant to the needs of industry and society. Our mission is to combine academic rigour with the practical, entrepreneurial and imaginative approach pioneered by our namesake, Isambard Kingdom Brunel.
CAMPUS LIFE

Located in Uxbridge on the outskirts of London, Brunel is one of the very few campus-based universities within the M25.
- All the essentials are available on campus, including accommodation, a bank, medical centre, pharmacy, shop and gym
- A number of study spaces are open 24/7
- There’s a regular market including fruit and veg stalls, fresh fish, eggs, sweets, books and more
- There are many catering outlets, including Subway and Proud to Serve Costa
- Whether you fancy a game of pool or a chat over coffee, there are plenty of places in which to catch up with friends and unwind

THE LOCAL AREA
Brunel is in Uxbridge on the edge of West London. Uxbridge town centre is just a 20 minute walk or short bus ride from campus, and has more than 300 shops, a multiplex cinema, dozens of bars and restaurants.

THE COUNTRYSIDE ON YOUR DOORSTEP
One of Brunel’s best-kept secrets is its proximity to the Grand Union Canal and to part of the Colne Valley Park, only a 15-minute walk away.

EASY ACCESS TO CENTRAL LONDON
Uxbridge is served by the Metropolitan and Piccadilly lines on the London Underground. You can also get a train into Paddington from West Drayton (a short bus ride from campus) or catch a bus into Ealing or Shepherd’s Bush.

TRAVEL
Brunel is six miles from Heathrow – but not under its flight paths – and a couple of miles from the M4, M40 and M25.
Our traffic-free campus is in a quiet location, served by excellent bus services.

MODERN CAMPUS FACILITIES
We continue to invest in buildings and infrastructure, with new and refurbished social, teaching and sporting facilities, halls of residence and green spaces. Our latest acquisition is the Eastern Gateway Building which provides teaching and research facilities, an auditorium and café.
Welcome to a new chapter in the history of Brunel University London.

Brunel University London recently underwent a programme of transformation with a new structure and brand in place from 1 August 2014. Brunel moved from eight academic Schools and numerous Specialist Research Institutes to three academic Colleges and three Specialist Research Institutes. This new structure maximises opportunities to develop research with an increased emphasis on collaboration, facilitates innovative and high-quality teaching approaches, and enables the delivery of an academic portfolio more suited to an increasingly interdisciplinary future.

Following Privy Council approval, the University’s brand marque has now officially changed to Brunel University London. The new logo combines the traditional elements of the University crest with a modern typeface and graphical elements. A new brand identity will help ensure greater cohesion between the new colleges and institutes as we move forward.
THE COLLEGE OF BUSINESS, ARTS AND SOCIAL SCIENCES
The College consists of six departments:
• Arts and Humanities
• Brunel Business School
• Politics, History and Law
• Education
• Economics and Finance
• Social Sciences, Media and Communications

THE COLLEGE OF ENGINEERING, DESIGN AND PHYSICAL SCIENCES
The College consists of five departments:
• Computer Science
• Design
• Electronic and Computer Engineering
• Mathematical Sciences
• Mechanical, Aerospace and Civil Engineering

THE COLLEGE OF HEALTH AND LIFE SCIENCES
The College consists of two departments:
• Life Sciences
• Clinical Sciences

THE COLLEGE OF ENVIRONMENT, HEALTH AND SOCIETIES
The research themes for the Institute are:
• Health and Environment
• Healthy Ageing
• Health Economics
• Synthetic Biology
• Biomedical Engineering and Healthcare Technologies
• Social Sciences and Health

THE COLLEGE OF HEALTH AND LIFE SCIENCES
The research themes for the Institute are:
• Structural Integrity
• Liquid Metal Engineering
• Micro-Nano Manufacturing
• Materials Characterisation and Processing
• Design for Sustainable Manufacturing

“By focusing their efforts in areas where Brunel already has a strong international research reputation, the Institutes will drive forward the University’s research agenda.”

GEOFF RODGERS, VICE-PRINCIPAL (RESEARCH)
• We are proud of the usefulness of our research. It improves lives and addresses global issues, while at the same time informing the content of the courses we teach

• High quality academics are the core of any university and our profile has transformed quite dramatically in recent years as more internationally renowned researchers continue to join Brunel

• Brunel has enjoyed unprecedented success in gaining European funding under the FP7 framework and other EU funding schemes

• The last Research Assessment Exercise (RAE) judged 82% of Brunel University London’s research to be of international standing

• Brunel cultivates collaborative partnerships with industry, the public and private sectors, business and government, both in the UK and overseas

The National Centre for Sustainable Energy Use in Food Chains launched at Brunel in September 2013, establishing a hub of engineers, scientists and industry experts to develop energy-efficient manufacturing, distribution and retail solutions.

Studies of cell biology have provided new insight into how chromosome integrity is threatened each time a cell grows and divides, revealing that one major threat comes from the cell’s own machinery for duplicating chromosomes prior to cell division.

The UK’s first Centre for Comedy Studies Research launched at Brunel in October 2013, promoting an international, interdisciplinary approach to understanding comedy. The Centre is supported by five ambassadors - Jo Brand, Nitin Ganatra, Lee Mack, Simon Minty and Geoff Rowe.
Quality programmes

The University receives consistently positive evaluations from a range of quality assessment and accrediting agencies – here are just a few:

• The Brunel MBA is one of a distinguished minority of programmes to be accredited by the Association of MBAs (page 49)
• Brunel offers the first Journalism MA in London to gain NCTJ accreditation (page 72)
• The Institution of Mechanical Engineers and the Institution of Engineering and Technology accredits many of our Engineering courses
• The Institution of Engineering Designers accredits some of design-related programmes

Innovative courses

Brunel refines and updates its courses to keep the content fresh and relevant. Below are a few highlights:

• The Ageing Studies MSc has been developed to meet the emerging needs of health care professionals to develop skills and expertise to enable those dealing with elderly people to operate more effectively (page 70)
• The Business Systems Integration (with SAP Technology) MSc reflects the needs of industry, with hands-on experience of SAP R/3, Business Warehouse and Netweaver (page 52)
• The MA in Contemporary Performance Making aims to provide a bridge between academia and the professional world (page 97)
• The Oil and Gas Engineering MSc has been developed for engineering and physical science graduates interested in working in the oil and gas industry and professionals who wish to specialise in the design, analysis and construction of oil and gas installations (page 39)
• The Experimental Music MA/MMus is the UK’s first Master’s programme in Experimental Music. It enables students to develop a comprehensive and sophisticated understanding of a range of practical and theoretical approaches to contemporary musical materials (page 83)
• The MSc in Data Science and Analytics, run in conjunction with SAS, gives students hands-on experience of commercial SAS tools, as well as the opportunity to gain SAS industry certification (page 53)
EXCELLENT EMPLOYMENT PROSPECTS

We integrate work skills and experience into our courses. Whether you are embarking on a programme of professional development, acquiring new knowledge or aiming to get one step ahead in a competitive job market, you will be encouraged to develop your portfolio during your time with us.

- In 2013, 88.8% of our postgraduates were in employment or further study six months after graduation
- 87.3% of employed postgraduates were working in senior managerial, professional or technical occupations with others pursuing yet higher qualifications in the research field
- 14.2% of postgraduates were top earners with salaries in excess of £30,000 and 96.2% reported salaries of £20,000 or more

Brunel graduates have gone on to be CEOs, Chief Operating Officers and Managing Directors for major companies including Barclays, Centrica and JP Morgan. Others have gone on to be judges and successful entrepreneurs, and one alumnus is even a senior manager at the United Nations.

Ten graduates are MPs in the UK and abroad, 35 have been included in The New Year Honours List and others have been awarded with BAFTAs, national awards and other prestigious accolades. There are many household names in the performance and media industries, alongside a distinguished list of Olympic, Paralympic, World and Commonwealth champions in a range of sports.
CAREERS AND EMPLOYABILITY SUPPORT

The University has an award winning Placement and Careers Centre that can provide high-quality guidance and information. It offers:

- one-to-one appointments for careers advice, CV and application checks and practice interviews
- practical support at all stages of the recruitment process
- events such as recruitment fairs and employer presentations and activities such as workshops and webinars providing tips for effective development of employability skills
- an online careers information service with specialist resources for postgraduate students

www.brunel.ac.uk/pcc

WORKING WHILE YOU STUDY

The Job Shop can help you find part-time work both on and off campus, with specific roles for postgraduate students. Some opportunities available include administration, research assistant roles, and jobs in IT and technical support as well as library assistant and student ambassador roles. These roles not only provide financial support, but also add to your skills and experience. Many offer flexible working hours enabling you to find working solutions that fit with your timetable. International students should check Visa regulations for working rights in the UK and seek advice on registering for a National Insurance Number.

www.brunel.ac.uk/jobshop

EMMA OSEJINDU
BIOLOGY PhD

“I did my PhD studies in biology and biochemistry. Working whilst studying worked well for me. I was able to focus on my studies and work on campus for a couple of evenings during the week. I enjoyed the benefit of working on campus because I was close to my department, and my employers (Alumni and Development) understood my need for flexibility as a student. I earned an income which gave me the independence that I needed and gained valuable communication skills which are transferable to a range of professions.”
The Graduate School provides professional development skills training and dedicated study and social facilities for all postgraduates.

You will have 24-hour access to:

- a quiet study room
- a common room with laptop plug-in points
- Internet kiosks
- a fully equipped kitchen
- a bookable conference room with AV facilities
- storage locker hire
- a laptop loan scheme
- the Postgraduate Study Centre with PCs, laptop plug-in points, printers and a lounge area
TRAINING FOR MASTER’S STUDENTS

The Graduate School provides training, guidance and resources to support the development of Master’s students, including Master’s Dissertation Week – a week of seminars and workshops in collaboration with the Academic Skills Service, to support students in every aspect of researching, planning and writing a successful Master’s dissertation.

TRAINING FOR DOCTORAL RESEARCH STUDENTS

The Researcher Development Programme incorporates workshops aligned to the National Researcher Development Framework (RDF). This describes the knowledge, competencies and attributes of highly skilled researchers and encourages continued personal, professional and career development. This includes the annual Researcher Development Series:

- **Researcher Development Series 1: New Researcher Induction** Network with current students and find out about the practicalities of doing a PhD
- **Researcher Development Series 2: Intermediate Researcher Development** Reflect on your progress, stay motivated and develop your research communication skills
- **Researcher Development Series 3: Advanced Researcher Development** Prepare to successfully face your viva and plan for the future

ONLINE COURSES

A range of online courses specifically for postgraduate students and researchers is also available. They provide additional support for development in a range of topics including research skills, enterprise, research integrity, statistics and leadership.

OTHER OPPORTUNITIES AND EVENTS

The Graduate School organises special events such as weekly coffee mornings, monthly researcher teas, the annual Research Conference where you are invited to make a poster and present your work alongside students from other subject areas and the annual three minute thesis competition.

VICE-CHANCELLOR’S PRIZES FOR POSTGRADUATE RESEARCH

These prizes reward exceptional academic performance:

- **Vice-Chancellor’s Prizes for Doctoral Research** Five prizes of £500 each awarded on the basis of research excellence
- **The Vice-Chancellor’s Travel Prizes** 25 awards of £500 each to support attendance at either a national or international conference
- **The Vice-Chancellor’s Research Poster Prize** £500 each to five research students who create and present the best posters at the annual Research Conference
- **Graduate School Prize** £250 for the best poster presented by an early stage researcher (0-12 months)
- **Three Minute Thesis Prizes** £500 first prize, £200 second prize and £100 people’s choice
BRUNEL INTERNATIONAL

We host over 1,000 postgraduate students from 110 countries and provide support to international students from application to graduation.

• The Marketing Office provides advice and guidance on studying at Brunel, including detailed information about courses. Staff regularly travel overseas to attend education exhibitions, give presentations and conduct interviews with prospective students

• The International Student Services Centre provides pre-arrival information, an airport meeting service, orientation programmes and support throughout your time at Brunel

• The International Pathways and Language Centre offers English Language, Pre-Master’s courses before and during your course. It also provides a range of modern foreign language courses

• The Immigration Office runs a batch scheme for current students to renew their student visas through Brunel, as well as offering general visa advice

HOW TO APPLY

All postgraduate applicants should apply online:

www.brunel.ac.uk/courses
www.brunel.ac.uk/apply-pgr

See the Web for further information about admissions criteria for your particular country:

www.brunel.ac.uk/international/information-by-country

ENGLISH LANGUAGE REQUIREMENTS

The University recognises a range of qualifications. Find out more:

www.brunel.ac.uk/international/iplc/languagerequirements

If your level of English does not meet the entry requirements for your particular course, you will be offered the chance to attend an English language course run by our International Pathways and Language Centre.

ENGLISH LANGUAGE COURSES

The International Pathways and Language Centre (IPLC) offers courses to increase your knowledge of, and confidence in, English and prepare you for academic success:

• English@Brunel is available throughout the academic year

• Pre-sessional English is available through the summer

• Bespoke programmes – short-term courses for groups – are also available

Find out more:

www.brunel.ac.uk/international/iplc/english-language-courses

IN-SESSIONAL ENGLISH FOR ACADEMIC PURPOSES

The IPLC provides classes for international students in academic writing, seminar and presentation skills, academic reading skills, listening and discussion skills, English pronunciation, and grammar. International students can also make appointments for individual consultations.
PRE-MASTER’S COURSES

For students who do not quite meet the normal requirements for entry to Masters-level study, a number of Masters programmes across the University incorporate an additional preliminary stage of Pre-Masters study delivered by LBIC, an Affiliate College of the University. Currently Pre-Masters entry is available for particular Masters programmes in Engineering, Computer Science, Design, Arts and Humanities, Law, Business and Management, and Environment Science and Sustainability. The list is expanding so please check with LBIC, which also handles admissions at Pre-Masters entry level, for the latest details:

lbic.navitas.com
info@lbic.brunel.ac.uk
+44 (0)1895 265519

ACCOMMODATION

A substantial amount of on-campus accommodation is reserved for full-time postgraduates (see page 19).

FEES

You will have to pay different fees as an overseas student. Please see page 32.

FURTHER INFORMATION

www.brunel.ac.uk/international
course-enquiries@brunel.ac.uk
Modern Foreign Languages

The IPLC offers classes for Brunel students in Arabic, Japanese, Russian, Polish, Portuguese, Mandarin Chinese, French, German, Italian and Spanish. These classes are available at a variety of levels and are taught by qualified, native speakers. They provide a stimulating atmosphere in which to learn and practise foreign language skills including speaking, listening, reading and writing. Register for a language module online:

www.brunel.ac.uk/international/current-students/foreign-languages

The Library

The Library, located at the centre of campus, brings together key services, facilities and information resources.

RESEARCH FACILITIES

• Over 420,000 print books and 150,000 eBooks, over 36,000 electronic journal titles, 110 databases, newspapers and DVDs
• Generous loan and renewal allowances for printed resources
• A rapid inter-library loan service, which can supply materials on request from other libraries
• Agreements with other university and national libraries to provide our researchers with reference access to collections

STUDY FACILITIES

• 24-hour opening Monday to Friday during term-time
• Bookable group study rooms, 1,200 single study spaces and around 500 PCs, with some areas exclusively for use by postgraduates and researchers
• A 24/7 Postgraduate Study Room for out of hours access to networked PCs and electronic Library resources
• The Research Commons, home of the Library’s Special Collections and an area for private study for research students
• A laptop loan service
• Multimedia facilities – photographic, video, audio and filming – that support teaching and research
• Assistive technology facilities for disabled and dyslexic students
SPECIAL COLLECTIONS
The Library is also home to Special Collections, unique research resources that include both archives and printed books. Our collections are particularly strong in nineteenth and twentieth century and later history, especially transport history (mainly railways and the Channel Tunnel), working class and employment law history, plus the development of research into child protection, advocacy and policy. Literature is represented by a diverse range of collections that cover Shakespeare, twentieth century poetry, British dialects, South Asian literature, dance, art, theatre, music and more. These collections will be of particular interest to students and researchers from Anthropology, Creative Writing, English Literature, History, Music, Politics, Sociology and more – we welcome students who wish to utilise the collections for projects, dissertations and doctoral theses.

Special Collections are accessed via our dedicated Special Collections room. Find out more online and follow the Special Collections blog:

http://brunelspecialcollections.wordpress.com

ACADEMIC SUPPORT
You will have access to one-to-one support from Subject Liaison Librarians and Academic Skills Advisors to help you find the information you need and to exploit it effectively. Library staff, working with academics and the Graduate School, run workshops on a wide range of topics including planning your literature review, managing references to avoid plagiarism, copyright issues for researchers and preparing presentations.

BRUNEL UNIVERSITY RESEARCH ARCHIVE
The Library manages Brunel University’s Research Archive (BURA), a repository of Brunel’s research outputs from journal articles to PhD theses. Once you have successfully completed your research, you will, in most instances, be able to see your final thesis archived in BURA.

Computer Centre and Media Services
When you register as a student at Brunel, you will be given a username that lasts for the duration of your course. This will give you access to many of our facilities including:

- PC workstations across campus, many of which are open around the clock
- an email account for all your University correspondence
- a file store allocation where you can keep your work securely
- a prepay print, scan and copy service (including colour and A3)
- the University’s virtual learning environment and online Library databases
- Connect services, so you can connect your devices to the University network
- the Brunel intranet, which provides University news, course information and access to student support
- an audiovisual and media equipment loan service

Assistive Technology Centre
The Assistive Technology Centre provides a range of specialist software and hardware to support disabled students, and runs a loan scheme of key equipment such as digital recorders and assistive listening devices. See page 23 for more information.
ACCOMMODATION

- Guaranteed accommodation for all new, full-time postgraduates who have confirmed their acceptance and met the conditions for a course by 1 September and submit their room applications online by this date
- All halls are on campus, meaning you are never more than 10 minutes away from the study, social and sporting facilities
- Most rooms are en suite, but you can choose our standard halls to suit your budget (subject to availability)
- Heating, lighting, water and basic insurance are included in your rent
- Rooms are single, with some studio flats available for co-habiting couples
- All rooms offer a free network connection with wireless access, through which you can access the Internet at no extra cost (with some limitations and subject to the Computer Centre’s Terms and Conditions)
- Specially adapted rooms are available for students with disabilities – for more information, see page 23
- All halls are self-catering, with well-equipped kitchens, and there are many food outlets across campus
- Residences Student Mentors are employed by the University to support and advise new resident students

RENT FOR 2014 (CHECK THE WEB FOR 2015 RATES NEARER THE TIME)

- En suite rooms £130 per week
- Standard rooms £102 per week
- Studio flats in the Isambard Complex £194 per week (available to co-habiting couples only)

WHAT IF I WANT TO LIVE OFF CAMPUS?

Brunel Student Homes can give help and advice about renting in the private sector, and there are various options available depending on your requirements. For those who are looking to live with other students, there is a notice board in the Brunel Student Homes office where you can place adverts for rooms available or rooms wanted. Landlords also advertise rooms on the Brunel Student Homes website.

Average rents for the area are within the region of £85 to £100 per week for a room.

More information about living off campus:

www.brunel.ac.uk/studenthomes
Support and advice are freely available to students to help you manage academic, financial, employment-related, administrative, legal, pastoral and accommodation issues.

**STUDENT ADMINISTRATIVE ENQUIRIES**

The Student Centre provides advice and support throughout your time at Brunel. Advisors help with a variety of administrative enquiries including enrolment, fees and funding, module selection, graduation and student ID cards.

**EXTERNAL AND LEGAL ISSUES**

The Advice and Representation Centre (ARC) offers independent advice and representation on issues such as housing, employment and finance. It is free, confidential and holds the Community Legal Service Quality Mark.
MEDICAL CARE
Our on-site NHS Medical Centre can be used by all students who register with the practice. It is open throughout the year, with a walk-in surgery each weekday during term-time.

COUNSELLING
Counselling is free to all Brunel students, and we offer emotional and personal support for any issue. Appointments and drop-ins are available all year round. The service is confidential unless someone is at risk of serious harm. There is also a helpline. The core team is professionally qualified, working in accordance with the British Association for Counselling and Psychotherapy Ethical Framework and the Brunel University London Counselling Service Code of Practice.

+44 (0)1895 265070
brunel-counselling@brunel.ac.uk

THE MEETING HOUSE
The Meeting House is a pastoral, spiritual and community resource for all at Brunel. It is a dedicated space where you can enjoy the Quiet Room or relax with tea in the lounge – all for free! The team can offer a listening ear, advice and spiritual support. Chaplains from the Christian, Muslim, and Hindu faiths are available. Student groups use the Meeting House for worship, meetings and social activities. You don’t need to make an appointment – simply drop in.
Disability and Dyslexia Service

Brunel offers a range of services and resources to help you make the most of your degree. The campus and facilities are recognised as some of the best in the country for disabled students.

HOW CAN WE HELP?

We offer advice and support to disabled students, including those with dyslexia and other specific learning difficulties, mental health conditions, Asperger syndrome, mobility and sensory impairments and unseen disabilities such as epilepsy, diabetes, arthritis and sickle cell anaemia.

A wealth of specialist resources, knowledge and practical support is available, including:

- a team of Disability Advisors
- an Assistive Technology Centre (ATC) providing specialist technology, training and equipment
- help with applying for Disabled Students’ Allowances
- screenings and diagnostic assessments for specific learning difficulties
- equipment loans
- provision of note takers, study skills tutors, mentors and other support workers
- exam adjustments and extended library loans
- adjustments to on-campus accommodation such as fully automated access for wheelchair users, deaf alerters alarm systems, and accommodation for personal carers
- on-site needs assessments and IT training at the West London Assessment Centre (WLAC)

Support is organised in negotiation with each student to ensure that individual needs are considered and met. The service is confidential and details are only passed on with each student’s consent to ensure necessary support.

Find out more, meet us or have a tour:

+44 (0)1895 265213

disability@brunel.ac.uk

www.brunel.ac.uk/disability

DISABLED STUDENTS’ ALLOWANCES (DSA)

Disabled Students’ Allowances (DSA) can help to pay the extra costs a student may have on their course as a result of a disability, mental health condition or specific learning difficulty (such as dyslexia). For more information please visit:

www.gov.uk/disabled-students-allowances-dsas

WEST LONDON ASSESSMENT CENTRE (WLAC)

The WLAC is a fully accredited, purpose-built Assessment Centre and can be used by students attending any university who are eligible for Disabled Students’ Allowances (DSA). The WLAC provides the needs assessments required by students claiming DSA and also helps inform their universities of what reasonable adjustments they could make to support the student. The DSA can fund some assistive technology, support workers such as study skills tutors, mentors and BSL communicators as well as some other forms of support. The WLAC can also provide IT training in the use of any assistive technology provided by the DSA. We also run outreach Assessment Centres at Royal Holloway, University of London and Buckinghamshire New University.

To find out more or to arrange a needs assessment, please contact:

+44 (0)1895 266704

assessmentcentre@brunel.ac.uk

www.brunel.ac.uk/wlac
THE ARTS CENTRE
The Arts Centre organises weekly classes, events, exhibitions, concerts and productions throughout the year, and provides the space, tuition and specialist equipment required for your creative skills to flourish.

Find out more about the Arts Centre:
www.brunel.ac.uk/artscentre

MUSIC AWARDS
Music Awards are made annually towards the cost of tuition for singers and instrumentalists who are not taking music performance as part of their academic course. The awards are open to all students, with auditions at the beginning of each academic year. For more information:
artcentre@brunel.ac.uk

BRUNEL AUTHOR SERIES
The Brunel Author Series is an eclectic programme of talks hosted by Brunel University Library. Enjoy established novelists and budding poets, non-fiction writers and thought-provoking journalists in conversation with Brunel’s own academics at the heart of campus. Follow the library’s blog for details of upcoming events.
http://bookmarkdaily.wordpress.com

EVENTS
ARTS@ARTAUD is a regular performance platform where musicians, filmmakers, writers, performers and designers present their work in a friendly, informal setting. With refreshments available and a DJ between acts, it really is a great evening of entertainment.

Throughout the year the University organises many cultural activities and festivities. Many are free to attend and there is often the chance to get involved:

- Public Lecture Series
- Inaugural Lecture Series
- Guest speaker events
- FACE (Festival of Awareness, Creativity and Expression)
- One World Week
SPORT

Brunel’s Sports Federation has over 50 clubs for students to choose from. Many teams compete in the BUCS (British Universities and Colleges Sport) premier leagues.

The sports facilities used by the clubs rank amongst the best in the UK and are used by some of the best athletes in the world, including Usain Bolt.

PERFORMANCE SPORT

Brunel has launched Performance Programmes in a number of key sports, including athletics, netball, rugby union, rowing, and squash to give members access to elite strength and conditioning facilities as well as extra coaching and fitness sessions.

SPORTS SCHOLARSHIPS

The Sports Scholarship scheme offers a financial award and assistance with competition expenses, accommodation allocated next to the sports facilities if you choose to live on campus, mentoring support to help you manage your commitments and free use of the sports facilities.

For further information please email details of your sporting performances and the course to which you are applying to:

sports-scholarships@brunel.ac.uk

FROM MAINSTREAM TO THE EXTREME

We offer a diverse range of sports and activities including:

- American football
- Cheerleading
- Rock climbing
- Snowboarding

ACTIVE BRUNEL

Active Brunel is a programme of relaxed, informal sessions. It is great value so just turn up and give it a go. Activities include:

- Gym sessions
- Handball
- Trampolining
- Self defence

MORE ENERGY GYM

Brunel’s health and fitness facilities are packed with equipment and qualified instructors are on hand to give advice. There is a range of flexible membership options.
TAUGHT COURSES

- LLM Master of Law
- MA Master of Arts
- MBA Master of Business Administration
- MRes Master of Research
- MSc Master of Science

Brunel offers over 100 taught Master’s courses. If you register for and complete only part of the Master’s programme, you may be eligible for the award of a Postgraduate Certificate or Postgraduate Diploma.

More detailed information is available in Senate Regulation 3.

MODE AND STRUCTURE

Most Master’s courses are available on a full-time or part-time basis. Some may also be studied by distance learning, which means you undertake most of your study away from the University. More flexible modes of study are available in some areas – you should check with your department on the arrangements for your particular course. Full-time programmes last approximately one year, beginning at the end of September (although a few courses begin in January). Part-time courses last a minimum of two years and usually involve attendance on one day a week, though some may differ.

Master’s courses are made up of modules worth a set number of credits. Usually you can expect to complete the taught modules during the first two-thirds of your course and concentrate on the dissertation for the latter part, although some Master’s courses have a different structure to this. You can expect some lectures, seminars and small-group teaching. Students in technology or science-based disciplines will have some laboratory-based and practical components.

ASSOCIATE STUDENT SCHEME

If you want to experience a taste of postgraduate study, or follow up an interest without committing yourself to a Master’s degree, the Associate Student Scheme could be for you. You can choose from over 100 modules on offer each year, and study alongside full- and part-time students. If you decide to register formally for a Master’s degree or intermediate award at a later date, you can take forward whatever credits you have accumulated.
Dissertation

You must complete a written dissertation, usually between 10,000 and 15,000 words. The title of your dissertation is usually agreed between you and your supervisor and will relate to your chosen course of study, but you can also draw on your work experience. The dissertation represents a detailed piece of research carried out by the student who, although supervised by a member of the academic staff, will be expected to work independently and to demonstrate sufficient mastery of the chosen topic and an appropriate ability in the organisation and presentation of the material.

Entry Requirements

Applicants will normally be expected to hold a first degree from a UK university (or recognised equivalent UK or overseas qualification). Candidates with other qualifications such as extensive relevant work experience or professional qualifications will be considered on an individual basis. An appropriate level of English language competence is also expected. For more details, see:

www.brunel.ac.uk/international/iplc/english-language-courses

Please check the web for specific entry requirements for each course:

www.brunel.ac.uk/courses/pg

International students also have the opportunity to enter at Pre-Masters level (see page 15).

Disclosure and Barring Service (DBS)

Students on courses that involve regulated activity with children and/or vulnerable adults are currently legally required to complete an Enhanced Disclosure and Barring Service application. This costs £51.86 at the time of going to press, but is subject to change. The University will send you more information on this as part of your admissions process.

For further information, please email:

DBS@brunel.ac.uk

Access the latest information on the Home Office website:

www.homeoffice.gov.uk/crime/vetting-barring-scheme

How to Apply

You will find the online application form for your chosen programme and mode of study on the relevant course page on the web. For further information on how to apply online, see:

www.brunel.ac.uk/apply-pgt

Applications will not normally be accepted after 1 September. The applicant may be required to attend an interview before a decision on the application is made. Applications for teacher training PGCert courses and the MA in Social Work should be made online via UCAS:

www.ucas.com
RESEARCH DEGREES

- MPhil Master of Philosophy
- LLM Master of Law by Research
- EdD Doctor of Education
- PhD with PGDip (Brunel Integrated PhD)
- DrPH Doctor of Public Health
- PhD Doctor of Philosophy

Brunel has a range of research programmes that cater for a diverse spectrum of interests. Read the relevant sections of this prospectus to check whether Brunel is working in a field in which you are interested.

DURATION OF PROGRAMME

A full time doctoral programme usually takes three years. The part time version usually takes up to six years. A full time MPhil is usually between one to two years. Postgraduate research students should expect to study throughout the year.

Full-time study is suitable for those who are fully funded and/or those who do not anticipate having to pursue paid work substantially during their studies in order to meet fees and maintenance costs. You should anticipate your commitment to your studies being the equivalent of a full-time job.

Part-time study is recommended for students who anticipate having to pursue additional paid work during their studies in order to meet fees and maintenance costs, or who have other constraints on their time and resources.

There are maximum registration periods for full and part time degrees which cannot be exceeded.

PROGRAMME STRUCTURE

The work of research students is less tied to the termly structure than that of taught course students and you may commence your work at the start of any month (though you should check that this is the case in your chosen subject).

You are expected to study for around 44 weeks each year. You will carry out an approved research project leading, if you attain a suitable standard, to the presentation of a full thesis. You will be supervised by two members of academic staff working in your specialist area. You will have regular meetings with your supervisors to discuss your progress and to receive guidance.

There may be opportunities for research students to undertake teaching or demonstration work.

ASSESSMENT OF PROGRESS

Students must produce, annually, a formal report of their progress for discussion with their supervisors and other members of academic staff. A record of these discussions is submitted to the University Registry. After successful completion of a research project, the student presents a thesis for examination and, if this is judged satisfactory, a research degree (MPhil or Doctorate) may be awarded.

THESIS

In the thesis, a student must meet the criteria set out in Senate Regulation 5, the Quality Audit Agency’s National Qualification Framework, and University regulations, including demonstrating a sound knowledge and critical appreciation of his or her discipline. The thesis for the award of PhD, EdD and DrPH (though not MPhil) must also include the creation and interpretation of new knowledge in that discipline. It may take the form of a wholly written dissertation or one that comprises original, creative work supported by a written commentary indicating how the creative work fulfils, or contributes towards, the requirements for the award. It will vary in length according to the discipline being researched and degree for which it is submitted.

Submissions involving creative work should include a means of storage, access or retrieval of work. The major part of the thesis must have been completed during the student’s period of registration with the University, under supervision arrangements approved by the University. The thesis is normally
presented at a viva voce examination. A candidate may present a less substantial piece of work for the award of an MPhil.

Additional guidance on the standard of awards is given in the Quality Audit Agency’s National Qualifications Framework at www.qaa.ac.uk, and in Senate Regulation 5.

www.brunel.ac.uk/about/administration/university-rules-and-regulations/senate-regulations

TRANSFERS

In certain circumstances Senate may agree to transfer a student registered at another university to registration for the appropriate degree at this University.

ENTRY REQUIREMENTS

Applicants will normally be expected to hold a good first degree or a Master’s degree and show evidence of competence in the English language if this is not the student’s first language. An applicant with certain alternative qualifications may be registered for the degree of PhD subject to confirmation. Candidates not meeting the normal entry requirements above may be considered for registration for the degree of MPhil. It is quite common for students to be registered initially for an MPhil and to then have their status as a PhD student confirmed after successful completion of the first year. Senate reserves the right to assess the eligibility of applicants on an individual basis.

HOW TO APPLY

When you make an application, you will need to identify the subject area or research institute in which you wish to conduct your research. It is thus a good idea to familiarise yourself with the research that is conducted at Brunel and decide where your own research would best fit. You may also want to ensure that there are potential supervisors within the University with the appropriate interests and expertise to supervise your work:

www.brunel.ac.uk/research/profiles

If you have identified a potential research supervisor at Brunel, it can be useful to contact them informally prior to making your application. They may be able to give more specific advice for your own discipline and some may be willing to comment on a draft research proposal.

Further information on how to apply can be found at:

www.brunel.ac.uk/apply-pgr
Brunel is one of the leading providers in the country of profession-oriented doctoral programmes. We offer the Brunel Integrated PhD in a range of subjects, plus specialist doctorates in Public Health (page 119) and Education (page 112).

Brunel Integrated PhD

The Brunel Integrated PhD programme combines the benefits of traditional PhD study with a structured programme of research, professional and subject training, aiming to develop independent researchers who are well prepared for their future career. Extending the usual PhD from three to four years, the Integrated PhD includes a programme of taught modules that run in parallel to research study during the first three years, leaving the fourth year for focus solely on PhD completion. Graduates of the programme are eligible for the award of PhD with Integrated Postgraduate Diploma.

For the Brunel Integrated PhD and DrPH programmes, the taught elements normally commence in September.

ENQUIRIES

Doctoral Programmes Manager, Brunel Graduate School
+44 (0)1895 265347
BiP@brunel.ac.uk

FEES

Fees are currently £8,250 for home/EU students and between £16,000 – £20,000 for overseas students.

ACCOMMODATION

All Brunel Integrated PhD students are guaranteed a place in University accommodation in their first year. See page 19.
## BRUNEL INTEGRATED PHD TAUGHT PROGRAMME AND ASSESSMENT STRUCTURE

<table>
<thead>
<tr>
<th>Module Code</th>
<th>Title</th>
<th>Credits</th>
<th>Study Year(s)</th>
<th>Assessment Year</th>
</tr>
</thead>
<tbody>
<tr>
<td>GS5525</td>
<td>Theory and Practice in Research</td>
<td>15</td>
<td>1</td>
<td>1</td>
</tr>
<tr>
<td>GS5527/31</td>
<td>Research Design and Analysis/ Research Techniques and Analysis</td>
<td>30</td>
<td>1-2</td>
<td>2</td>
</tr>
<tr>
<td>GS5530</td>
<td>Research Management, Leadership and Personal Development</td>
<td>15</td>
<td>1-4</td>
<td>3</td>
</tr>
<tr>
<td>GS5528</td>
<td>Academic Research Dissemination</td>
<td>15</td>
<td>1-3</td>
<td>3</td>
</tr>
<tr>
<td>GS5529</td>
<td>Knowledge Exchange and Research Impact</td>
<td>15</td>
<td>2-3</td>
<td>3</td>
</tr>
<tr>
<td>GS5526</td>
<td>Guided Study OR Discipline-specific modules</td>
<td>30</td>
<td>By end of Year 2</td>
<td>Years 1, 2 (or both)</td>
</tr>
</tbody>
</table>

**Total Credits**: 120
FEES AND FUNDING

The most up-to-date fee information can be found at:
www.brunel.ac.uk/courses/pg/postgraduate-fees

Fees for taught courses

Fees can be found on our web pages:
www.brunel.ac.uk/courses/course-finder

Most fees range from £7,000-9,000 for home/EU students and from £13,500-16,500 for overseas students.

FULL-TIME Fee applies for one year

PART-TIME Fees are usually half of the corresponding full-time fees, and apply in each of the first two years of study

DISTANCE LEARNING Fee applies for the whole course, or per module

ASSOCIATE Fee is per module

Fees for research degrees

Home/EU fees for 2015 will be the same as the RCUK (Research Council) fee. In 2014 this was £3,996 per annum full-time. The part-time fee is 50% of the full-time fee per annum. Overseas students will pay approximately £13,500-16,500. Fees for the Brunel Integrated PhD will be £8,500 for home/EU and £13,500-16,500 for overseas students.

FULL-TIME fee normally applies for one year for an MPhil or each of three years for a PhD (including DrPH).

PART-TIME Fee normally applies to each of two years for an MPhil or up to six years for a PhD.

You are expected to complete your studies in three years as a full-time student or six years part-time. If you complete in less time, you will still be liable to pay the equivalent of three years full-time fees. Further fees for extended registration may be levied on students who do not complete in the anticipated time. All students will be charged an administration fee of £1,145 for an additional year of writing up.

RESEARCH EXAM FEES

- MPhil/LLM by Research/DrPH £250
- PhD £280
- Higher Doctorates £895
All students

Some subjects attract additional charges for materials or equipment costs. Please see Council Ordinance 10:

www.brunel.ac.uk/about/administration/university-rules-and-regulations/council-ordinances/10

PAYING FEES

Fees are due at registration and then each October. Research students whose effective date of registration is after the beginning of the academic year are invoiced pro rata for the remainder of the academic year.

International students are required to pay a non-refundable deposit of £3,000 at the time of being made an unconditional offer of a place. £250 is required from Home and EU applicants.

UK/EU RESIDENT STATUS

UK national students and nationals of a European Union country who have been ordinarily resident in the EU for the three years prior to admission are normally eligible to pay the lower rate of fees.

Students who have not been ordinarily resident in the UK for three years prior to 31 August of their year of entry will probably find that they are not eligible to pay the lower rate. Please contact the Admissions Office once you have made an application if you are unsure whether you are a Home or Overseas student for fees purposes.

ISLANDS APPLICANTS

Different rates apply for students sponsored by the Channel Islands or Isle of Man. See the web for more info.

www.brunel.ac.uk/courses/admissions/fee-status

EQUIVALENT OR LOWER QUALIFICATIONS (ELQS)

Home/EU students who already have a qualification at a level higher than or equal to that for which they are applying may be subject to different fees.

www.brunel.ac.uk/courses/elqs
**Brunel funding**

This information is based on scholarships and bursaries offered in 2014 and is only a guide to the funding package that will be offered in 2015. Comprehensive information will be available on the web nearer the time.

[www.brunel.ac.uk/courses/pg/funding](http://www.brunel.ac.uk/courses/pg/funding)

### Brunel Graduate Discount

Brunel graduates benefit from a **15%** fee reduction when registering for a postgraduate taught course or research programme at Brunel, and a further **15%** off taught course fees if they have a first class undergraduate degree.

[www.brunel.ac.uk/courses/pg/funding](http://www.brunel.ac.uk/courses/pg/funding)

### Prompt Payment Discount

Students who pay their own fees receive a **2%** discount on their net tuition fee when they pay the full amount at or before the scheduled date of registration.

[www.brunel.ac.uk/courses/pg/funding](http://www.brunel.ac.uk/courses/pg/funding)

### Academic Excellence Scholarships

Brunel offers **15%** off fees for PGT courses for anyone who has obtained a first class undergraduate degree from a UK University, either based in the UK or abroad.

[www.brunel.ac.uk/courses/pg/funding/scholarships-bursaries](http://www.brunel.ac.uk/courses/pg/funding/scholarships-bursaries)

### Research Scholarships

A small number of awards may be available but numbers vary. Check with your subject area for more information:

[www.brunel.ac.uk/colleges](http://www.brunel.ac.uk/colleges)

### PhD Studentships

These may consist of a cash scholarship, payment of your tuition fees, or a wage for teaching. Contact your subject area for more information:

[www.brunel.ac.uk/colleges](http://www.brunel.ac.uk/colleges)

### Water Conservation Trust Bursaries

The Worshipful Company of Water Conservators offers a tuition fee bursary of **£4,000** for students hoping to study an MSc in the Institute for the Environment. They also offer one **£4,000** tuition fee bursary for the Civil Engineering Water Engineering MSc.

### Music Awards

These are awarded to singers and instrumentalists who are not studying music performance as part of their academic course. Students may have all or part of the cost of their music tuition covered while studying at Brunel. Apply once you receive an offer.

[www.brunel.ac.uk/services/artscentre](http://www.brunel.ac.uk/services/artscentre)

### Sports Scholarship Programme

This includes a financial award, assistance with competition expenses, accommodation next to the sports facilities, mentoring support and free use of sports facilities.

[www.brunel.ac.uk/services/artscentre](http://www.brunel.ac.uk/services/artscentre)

### PGCE Access Scholarships

Up to twenty scholarships of **£2,500** fee waivers are available for PGCert Education.

### Queen’s Anniversary Prize Scholarships

Six **£3,000** fee waivers are available for the following full-time MSc courses: Climate Change Impacts and Sustainability, Environmental Science: Legislation and Management, Environmental Science: Pollution and Monitoring, Toxicology and Risk Assessment, and Sustainability, Entrepreneurship and Design.

### Women in Engineering Scholarships

40 awards of **£7,750** for fees plus **£15,000** living allowance for women with an unconditional offer on one of our full-time postgraduate engineering programmes.

### Isambard Kingdom Research Scholarships

Three full PhD scholarships of **£17,679** per year may be available for home/EU students, one for each Research Institute. Check the web nearer the time for more info.

### Music Awards

These are awarded to singers and instrumentalists who are not studying music performance as part of their academic course. Students may have all or part of the cost of their music tuition covered while studying at Brunel. Apply once you receive an offer.

[www.brunel.ac.uk/services/artscentre](http://www.brunel.ac.uk/services/artscentre)

### PhD Studentships

These may consist of a cash scholarship, payment of your tuition fees, or a wage for teaching. Contact your subject area for more information:

[www.brunel.ac.uk/colleges](http://www.brunel.ac.uk/colleges)

### Water Conservation Trust Bursaries

The Worshipful Company of Water Conservators offers a tuition fee bursary of **£4,000** for students hoping to study an MSc in the Institute for the Environment. They also offer one **£4,000** tuition fee bursary for the Civil Engineering Water Engineering MSc.
External funding

If you are not eligible for Brunel funding, or if the award is insufficient to cover both fees and living costs, you may need to research other sources of funding:

GOVERNMENT RESEARCH COUNCILS
www.rcuk.ac.uk

STATE FUNDING
www.gov.uk

CHARITIES, TRUSTS AND FOUNDATIONS
www.scholarship-search.org.uk
www.prospects.ac.uk

KNOWLEDGE TRANSFER PARTNERSHIPS
www.ktponline.org.uk/graduateopportunities

PROFESSIONAL AND CAREER DEVELOPMENT LOANS
www.brunel.ac.uk/courses/pg/funding/other-financial-support

DISABLED STUDENTS’ ALLOWANCES
disability@brunel.ac.uk

ACADEMIC PRIZES
www.brunel.ac.uk/courses/pg/funding/academic-prizes

SELF-FUNDING
www.brunel.ac.uk/jobshop
## TAUGHT COURSES BY SUBJECT AREA

<table>
<thead>
<tr>
<th>Subject Area</th>
<th>Page</th>
</tr>
</thead>
<tbody>
<tr>
<td>Advanced Manufacturing and Enterprise Engineering</td>
<td>38</td>
</tr>
<tr>
<td>Anthropology</td>
<td>40</td>
</tr>
<tr>
<td>Bioengineering</td>
<td>42</td>
</tr>
<tr>
<td>Biosciences</td>
<td>44</td>
</tr>
<tr>
<td>Business</td>
<td>46</td>
</tr>
<tr>
<td>Civil Engineering</td>
<td>50</td>
</tr>
<tr>
<td>Computer Science</td>
<td>52</td>
</tr>
<tr>
<td>Creative Writing</td>
<td>54</td>
</tr>
<tr>
<td>Design</td>
<td>56</td>
</tr>
<tr>
<td>Economics and Finance</td>
<td>58</td>
</tr>
<tr>
<td>Education</td>
<td>60</td>
</tr>
<tr>
<td>Electronic and Computer Engineering</td>
<td>62</td>
</tr>
<tr>
<td>English</td>
<td>64</td>
</tr>
<tr>
<td>Environment</td>
<td>66</td>
</tr>
<tr>
<td>Film and TV</td>
<td>68</td>
</tr>
<tr>
<td>Games Design</td>
<td>69</td>
</tr>
<tr>
<td>Health Studies</td>
<td>70</td>
</tr>
<tr>
<td>Journalism</td>
<td>72</td>
</tr>
<tr>
<td>Law</td>
<td>74</td>
</tr>
<tr>
<td>Mathematics</td>
<td>77</td>
</tr>
<tr>
<td>Mechanical Engineering</td>
<td>78</td>
</tr>
<tr>
<td>Music</td>
<td>82</td>
</tr>
<tr>
<td>Occupational Therapy</td>
<td>84</td>
</tr>
<tr>
<td>Physiotherapy</td>
<td>85</td>
</tr>
<tr>
<td>Politics and History</td>
<td>86</td>
</tr>
<tr>
<td>Psychology</td>
<td>90</td>
</tr>
<tr>
<td>Social Work</td>
<td>92</td>
</tr>
<tr>
<td>Sociology and Communications</td>
<td>94</td>
</tr>
<tr>
<td>Sport, Health and Exercise Sciences</td>
<td>96</td>
</tr>
<tr>
<td>Theatre</td>
<td>97</td>
</tr>
</tbody>
</table>
Advanced Manufacturing and Enterprise Engineering at Brunel is one of the first integrated innovative engineering disciplines in the UK. With four MSc programmes and world class research in advanced manufacturing technology, enterprise engineering and engineering management, this is truly a place where cutting edge research brings the frontiers of science and technology to students. With around 150 postgraduate students from around the world and substantial research income from the EU, research councils and industry, we are a major player in the field of advanced manufacturing and enterprise engineering.

**ADVANCED ENGINEERING DESIGN MSc**

This is a unique Master’s programme with an international reputation. The course aims to educate students to a high level in the area of engineering design. Students are encouraged to obtain practical skills, and to gain real-life experience in the development of new products for the market. The course enjoys close links with industrial partners, with group projects and dissertations often being suggested to students. The course includes a taught element of eight modules; delivery is by a combination of lectures, tutorials and group/seminar work with a final dissertation.  

1 year full-time, 2 years part-time.  

[www.brunel.ac.uk/courses/postgraduate/advanced-engineering-design-msc](http://www.brunel.ac.uk/courses/postgraduate/advanced-engineering-design-msc)

This course is accredited by the Institution of Mechanical Engineers and the Institution of Engineering and Technology.

**ADVANCED INSTRUMENTATION AND SMART SYSTEMS MSc**

The programme aims to produce leading engineers/scientists required for the future growth of smart industries and smart societies, and is carefully designed to address the full spectrum of subjects concerning advanced instrumentation and smart systems, ranging from the front end advanced sensor technologies, advanced signal processing and data analysis, to information/knowledge engineering and intelligent control. The programme has the appropriate balance of theory and practice, and will be taught by a team of experts from Brunel and the National Physical Laboratory (NPL), with excellent laboratory resources and facilities.

1 year full-time, 2 years part-time.  

[www.brunel.ac.uk/courses/postgraduate/advanced-instrumentation-and-smart-systems-msc](http://www.brunel.ac.uk/courses/postgraduate/advanced-instrumentation-and-smart-systems-msc)

This course is currently seeking accreditation by the Institution of Engineering and Technology and the Institution of Mechanical Engineers.

**ADVANCED MANUFACTURING SYSTEMS MSc**

This course tackles the challenges of today’s multidisciplinary work environment which requires a new generation of highly specialised engineers. The programme enables students to understand and implement the principles and techniques of manufacturing and industrial systems, and to design new and innovative solutions within the global context. The course includes a taught element of eight modules; delivery will be by a combination of lectures, tutorials and group/seminar work with a final dissertation. This course can be taken by distance learning.

1 year full-time, 3-5 years distance learning.  

[www.brunel.ac.uk/courses/postgraduate/advanced-manufacturing-systems-msc](http://www.brunel.ac.uk/courses/postgraduate/advanced-manufacturing-systems-msc)

This course is accredited by the Institution of Mechanical Engineers and the Institution of Engineering and Technology.
ENGINEERING MANAGEMENT MSc
This course aims to develop the essential skills and knowledge required across an engineering business context: systems thinking, operations, human resources, project management, strategy and the design and management of the supply chain. The programme aims to produce engineering management professionals who can take the skills they develop at Brunel forward to make a significant difference in the marketplace. This course can be taken by distance learning.
1 year full-time, 3-5 years distance learning.

www.brunel.ac.uk/courses/postgraduate/engineering-management-msc

This course is accredited by the Institution of Mechanical Engineers and the Institution of Engineering and Technology.

OIL AND GAS ENGINEERING MSc
This programme will train specialist engineers in oilfield structures design, fabrication and installation. A key feature of this programme is its overall ambition to instil systems thinking to specialist engineers by treating those structures and their operating environment holistically as a system, and provide the ability and skills to address a wide range of complex engineering issues rapidly. The industry seeks the commissioning and drilling of new wells to meet energy demands, particularly those for heavy oils and shale oil and gas, requiring skilled engineers who can rapidly design and commission oilfield installations.

This course targets those engineering and physical sciences graduates interested in working in the oil and gas industry, as well as professional practicing specialists in the oil and gas sector who wish to specialise in the design, analysis and construction of oil and gas installations to further their careers.
1 year full-time, 2 years part-time.

www.brunel.ac.uk/courses/postgraduate/oil-and-gas-engineering-msc

This course is currently seeking accreditation by the Institution of Mechanical Engineers, the Institution of Civil Engineers, the Institute of Materials, and the Society of Petroleum Engineers.

YOU MIGHT ALSO LIKE...
Advanced Mechanical Engineering MSc....page 78
Integrated Product Design MSc................page 57
Over twenty years ago Brunel established Europe’s first Master’s in Medical Anthropology. Since then, Brunel has launched the world’s first Master’s in the Anthropology of Childhood, Youth and Education, the only Master’s in Psychological and Psychiatric Anthropology outside the USA, as well as a unique Master’s in the Anthropology of International Development and Humanitarian Assistance. Our degrees are open to all. People working in the health, social or psychological professions, or in development, charity or educational sectors will derive intellectual stimulus and professional advantage from our degrees, which combine coursework, training in research methods and fieldwork leading to a dissertation. Our unique dissertation programme is widely admired for the excellent ethnographically grounded projects it produces and the opportunities it offers for life-changing fieldwork experiences, often leading to career changes.

**ANTHROPOLOGY OF CHILDHOOD, YOUTH AND EDUCATION MSc**

The distinctiveness of this MSc derives from an anthropological approach that focuses on child and youth perspectives and the role that education plays in children’s learning processes and in the transmission and acquisition of cultural knowledge. Through an examination of ethnographic cases from around the world (including the UK), participants will learn about the different ways in which childhood and youth are understood and conceptualised, along with the different educational forms and processes through which cultural knowledge is transmitted and acquired.

1 year full-time, 2 days per week.
2-2.5 years part-time, 1 day per week.

www.brunel.ac.uk/courses/postgraduate/anthropology-of-childhood,-youth-and-education-msc

**ANTHROPOLOGY OF INTERNATIONAL DEVELOPMENT AND HUMANITARIAN ASSISTANCE MSc**

Anthropology has played a key role in the emergence of new perspectives on humanitarian assistance and the livelihoods of populations caught up in extreme circumstances such as famines, natural disasters and wars. This MSc examines contemporary issues and debates surrounding international development
and humanitarian assistance, as well as their implications. This course appeals to graduates from a variety of backgrounds, including anthropology, sociology, economics, politics, geography, law and development studies. It will enable students to seek employment with NGOs, international agencies and the civil service. It will also provide a useful stepping stone for those seeking to undertake doctoral research in international development.

1 year full-time, 2 days per week.
2-2.5 years part-time, 1 day per week.

www.brunel.ac.uk/courses/postgraduate/anthropology-of-international-development-and-humanitarian-assistance-msc

MEDICAL ANTHROPOLOGY MSc

Medical anthropology is the study of cultural beliefs and behaviours associated with the origin, recognition and management of health and illness in different social and cultural groups. It is concerned with informal systems of health care such as self-treatment, folk healers, shamans, traditional birth attendants, and alternative practitioners, as well as professional Western science-based medicine and caring practices. The first taught Master’s degree dedicated to medical anthropology in Europe, the Brunel MSc has a long established history. Students will acquire analytical and research skills that can be used in a wide range of careers.

1 year full-time, 2 days per week.
2-2.5 years part-time, 1 day per week.

www.brunel.ac.uk/courses/postgraduate/medical-anthropology-msc

PSYCHOLOGICAL AND PSYCHIATRIC ANTHROPOLOGY MSc

This course, the first of its kind in Europe, addresses psychological and psychiatric issues from an anthropological perspective using cases from around the world to explore how person, consciousness, and experience are shaped through cultural practices and political realities. By engaging with debates on these topics and through the examination of world ethnography, participants learn about selfhood, emotion, identity and mental illness in diverse cultural contexts. The course will appeal particularly to those who want to work in the health, charity or educational sectors or wherever a cross-cultural understanding is an advantage.

1 year full-time, 2 days per week.
2-2.5 years part-time, 1 day per week.

www.brunel.ac.uk/courses/postgraduate/psychological-and-psychiatric-anthropology-msc

SOCIAL ANTHROPOLOGY MRes

This MRes provides high quality training in anthropology and anthropological research of relevance to those who wish to use it as a foundation for PhD study or to enhance their careers through acquisition of advanced knowledge and research skills. The MRes can be completed as a qualification in itself, or as the first stage in a four-year PhD programme. For students with no previous anthropological training, it can act as a conversion course. A unique feature of this programme is that students can design Guided Study Modules to focus on their own areas of research interest.

1 year full-time, 2 days per week.
2-2.5 years part-time, 1 day per week.

www.brunel.ac.uk/courses/postgraduate/social-anthropology-mres

SPECIAL FEATURES

• Teaching condensed into one (part-time) or two (full-time) days per week during term time

• The opportunity to conduct two months supervised field research anywhere in the world

• The Cecil Helman Scholarship offers awards of £1,000 for MSc Medical Anthropology students to help fund their research on the course

YOU MIGHT ALSO LIKE...

Children, Youth and International Development MA ........................................page 93
Ageing Studies PGCert/PGDiploma/MSc, page 70
International Human Rights Law LLM ..........page 76
Brunel Institute for Bioengineering (BIB) has developed over the last 30 years into an Institute providing new solutions for healthcare and health delivery. It now offers an exciting multi-disciplinary course aimed at developing the skills required for professionals to launch a strong career in the growing application field and industrial sector of Bioengineering. BIB is a Specialist Research Institute that produces leading solutions for a range of bioengineering sectors by working with industries and clinical centres, both internationally and nationally. The multidisciplinary team of engineers, chemists, biochemists, biologists and clinicians leads ground-breaking work that will be used to reinforce the experience and opportunities of students on this unique course.

The research strengths of the team are in: surgical robotic tools; implantable devices and smart sensing systems; bioprocessing and biosensing technologies for specific applications including drug delivery, pharmaceuticals, cellular processing and tissue engineering; biomaterials; tissue repair and implantable biosensing. The successful expansion of Bioprocessing research has led to the establishment of the Advanced Bioprocessing Centre (ABC), which provides a research focus on bioprocessing, taking small-scale, analytical methods for purifying pharmaceuticals, proteins, cells and other mixtures and turning them into large-scale processes suitable for production. As an international centre of excellence in its own right, it is the first point of contact for both academia and industry when facing challenging separation problems.

With outstanding experimental facilities available, a significant proportion of our research is dedicated to modelling and simulation. It is used to predict separation processes, diagnose and interpret diagnosis data, judge the impact of therapies and optimise the design of smart sensing systems, medical devices and tools.

**BIOENGINEERING MRes**

This research-led programme utilises the Institute’s expertise to address the multi-disciplinary subjects of engineering, biology, human physiology, and medicine. The course delivers taught modules to fill knowledge gaps within the specific bioengineering disciplines and provides substantial training on performing research in biomechanics engineering, biosensing, medical instrumentation and bioprocessing. Students are exposed to ongoing research activities with the opportunity to carry out their dissertation research on a specific project of their choice. Extensive training in research methodology and practice will equip students with all the necessary skills to perform bioengineering research independently within a multidisciplinary context.

Our MRes is unique, as during the introductory period every student can tailor their course to their needs and interests. In addition to compulsory modules, students can follow one of the principal streams outlined below, and select two corresponding optional modules.
Compulsory modules include:
- Innovation Management and Research Methods
- Bioengineering Research Methods
- Biomedical Engineering Principles
- Biomedical Statistics

Stream A
- Robotics for Bioengineering
- Biomedical Imaging and Image Processing

Stream B
- Biofluid Mechanics
- Advanced Biofluid Mechanical Research

Stream C
- Tissue Engineering and Regenerative Medicine
- Biomechanics and Biomaterials

Stream D
- Advanced Separation Science and Industrial Case Studies
- Process Instrumentation and Practice

The dissertation projects will embrace the chosen stream’s research area and our associated industrial partners will be able to provide or advise on topics for user-drive projects with industrial relevance. These kinds of research projects often form the basis for further postgraduate studies at PhD level in Bioengineering.

1 year full-time or 2 years part-time.

www.brunel.ac.uk/courses/postgraduate/bioengineering-mres

ENQUIRIES
bibadmin@brunel.ac.uk
+44(0)1895 266918

YOU MIGHT ALSO LIKE...
Bioengineering PhD...........................................page 104
Biomedical Engineering MSc............................page 79
Biosciences at Brunel is research-active with a focus on human health and disease mechanisms. As a consequence, the curricula for Biosciences courses are not restricted to textbook knowledge. The modules are taught by highly motivated scientists who expand the known territory of a scientific area with unique discoveries.

The research interests of our staff take place within four centres: Brunel Institute for Cancer Genetics and Pharmacogenomics; Centre for Cell and Chromosome Biology; Centre for Infection, Immunity and Disease Mechanisms; and the interdisciplinary Centre for Systems and Synthetic Biology.

Our research covers topics including basic cell biology, viral, bacterial and fungal infections, an understanding of the human immune system and endocrinological disorders and a fundamental understanding of cellular ageing and cancer therapy. This enables our students to choose between a large variety of real-world on-going research projects, which range from investigations of genomic stability in bacteria and eukaryotic cells and the identification of genes in human longevity to investigations in specific signalling pathways in breast cancer cell lines.

**MOLECULAR MEDICINE MSc**

The course aims to provide specialist theoretical and practical knowledge and experience of cellular and molecular biology and genetics, and their application to the study of human diseases in the context of a range of genetic and infectious diseases.

The course will focus on developing research skills and is designed to develop students’ ability to become independent and creative scientists. Through our enthusiastic, innovative and research-driven approach, the teaching on this course reflects the fast changing nature of biomedical research, with specific emphasis on the human genome and molecular medicine.

1 year full-time, 2 years part-time. Most modules taught in 2 week block format: Monday-Wednesday, 9am-5pm.

[www.brunel.ac.uk/courses/postgraduate/molecular-medicine-msc](http://www.brunel.ac.uk/courses/postgraduate/molecular-medicine-msc)
MOLECULAR MEDICINE AND CANCER RESEARCH MSc

The course aims to provide specialist theoretical and practical knowledge and experience of cellular, molecular biology and genetics, and their application to the study of human diseases in the context of the scientific and clinical problem of human cancer.

The course will focus on developing research skills and is designed to develop students’ ability to become independent and creative scientists. Through our enthusiastic, innovative and research-driven approach, the teaching on this course reflects the fast changing nature of biomedical research, with specific emphasis on the human genome, molecular medicine and cancer research.

1 year full-time, 2 years part-time. Most modules taught in 2 week block format: Monday-Wednesday, 9am-5pm.

www.brunel.ac.uk/courses/postgraduate/molecular-medicine-and-cancer-research-msc

STEFANO VECCHIARELLI

MOLECULAR MEDICINE AND CANCER RESEARCH MSc

“I chose to study at Brunel because I liked the modules which are both theoretical and practical. My dissertation project is about the complement system and Alzheimer’s disease in mice. It was found that C1q, a protein of the immune system, is upregulated in both humans and mice affected by Alzheimer’s and I am trying to understand the interaction of this protein with the disease.

In my year spent at Brunel, I enjoyed the environment, the people and the close proximity to London. I was involved in a volunteer project with children and the experience was so helpful for my English. I also worked during graduation week as parking steward. Next, I hope to apply for a PhD position. I recommend Brunel University, you will work hard but will also have a lot of fun!”

YOU MIGHT ALSO LIKE...

Bioengineering MRes...............................page 42
Biomedical Engineering MSc.....................page 79
Vibrant, innovative and forward-looking, with ambitious plans for the future, Brunel Business School is one of the best business schools in London.

The School houses six research centres undertaking international level research in the fields of business and management. These centres generate high quality outputs.

ACCOUNTING AND BUSINESS MANAGEMENT MSc

The MSc in Accounting and Business Management will appeal to graduates with business-related degrees who want to develop their understanding of accounting and management in a business context and develop skills that enhance their employability.

1 year full-time, minimum 3 days per week, January or September start.

www.brunel.ac.uk/courses/postgraduate/accounting-and-business-management-msc

This course is accredited by the Chartered Institute of Management Accountants (CIMA), the Institute of Chartered Accountants in England and Wales (ICAEW) and the Association of Chartered Certified Accountants (ACCA).

APPLIED CORPORATE BRAND MANAGEMENT MSc

This programme covers issues of branding relating to blue chip companies, the service industry, banks, petroleum companies, lifestyle organisations, corporate brand heritage, nation and place branding. The core contents of branding are examined at the corporate rather than product level.

This MSc is also available with a work placement, allowing students to take their learning outside the classroom by pairing them with brand companies such as Telefonica Europe, Mars and Tetley or with brand agencies such as BrandPie and Radley Yeldar.

1 year full-time, minimum 3 days per week, September start. MSc with work placement includes 14 weeks professional practice (optional).

www.brunel.ac.uk/courses/postgraduate/applied-corporate-brand-management-msc

BUSINESS INTELLIGENCE AND SOCIAL MEDIA MSc

This exciting programme explores developments in cloud-based and mobile commerce that are changing the way businesses will operate in the future. The course draws together technology and business perspectives in order to understand the implications for social media enabled business.
This course helps students to gain technical skills and an appreciation of the crucial role social web technologies play in today’s organisations and their ability to transform business processes.

1 year full-time, minimum 3 days per week, January or September start.

www.brunel.ac.uk/courses/postgraduate/business-intelligence-and-social-media-msc

GLOBAL SUPPLY CHAIN MANAGEMENT MSc

This MSc is an exciting and focused programme for those considering a career in Supply Chain or Logistics. Students study issues relating to the development of supplier relationships, operations improvement, procurement strategies, inventory control, logistics operations and sustainability, as well as contemporary issues affecting these areas. The programme includes visits to manufacturing and service organisations to observe the match between theory and practice such as Jaguar and BMW’s Mini car plant.

1 year full-time, minimum 3 days per week, September start.

www.brunel.ac.uk/courses/postgraduate/global-supply-chain-management-msc

This course is accredited by the Chartered Institute of Logistics and Transport and the Chartered Institute of Purchasing and Supply.

HUMAN RESOURCE MANAGEMENT MSc

This MSc offers students the opportunity to explore in depth the theoretical and analytical issues in the management of human resources and the role these play in organisational success. Students will examine a full range of HRM approaches, techniques and methodologies and will consider key HR systems and processes from an international perspective with a focus on Corporate Social Responsibility and Global Diversity Management.

1 year full-time, minimum 3 days per week, January or September start.

www.brunel.ac.uk/courses/postgraduate/human-resource-management-msc

This course is accredited by the Chartered Institute of Personnel and Development (CIPD).

HUMAN RESOURCE AND EMPLOYMENT RELATIONS MSc

This exciting programme gives students a thorough grasp of current theory and practice relating to the management of human resources and employment relations. Whilst the UK is the primary focus for the study of employment relations issues, students also consider the human resource management challenges of organisations operating across national boundaries. The programme explores the key role played by employers, employees and their representatives in enhancing effective organisational working.

1 year full-time, minimum 3 days per week, January or September start.

www.brunel.ac.uk/courses/postgraduate/human-resources-and-employment-relations-msc

This course is accredited by the Chartered Institute of Personnel and Development (CIPD).
INTERNATIONAL BUSINESS MSc

In addition to providing a thorough understanding of the principal business and management functions, this degree explores the particular issues faced by organisations operating across national boundaries or cultures, as well as the processes of globalisation in the 21st century and their implications. Suitable for anyone seeking a successful career in a multinational organisation or in a smaller enterprise operating internationally, this degree will also appeal to anyone interested in undertaking research in either an academic or commercial setting.

1 year full-time, minimum 3 days per week, September start.

www.brunel.ac.uk/courses/postgraduate/international-business-msc

MANAGEMENT MSc

The aim of this programme is to offer students a critically aware understanding of management through an advanced study of organisations and the changing contexts in which they operate. It provides preparation and development for a career in any sector.

Students are eligible for a choice of four awards:

- MSc Management (General Management)
- MSc Management (Branding and Marketing)
- MSc Management (Technology and Innovation Management)
- MSc Management (Creative Industries)

The MSc Management (with Professional Practice) incorporates an optional work placement component of 14 weeks plus UK commercial visits such as to BMW’s Mini car plant as well as the opportunity to compete for a place on a week-long overseas study tour to learn about a specific international market.

1 year full-time, minimum 4 days per week, January or September start.

www.brunel.ac.uk/courses/postgraduate/management-msc

MARKETING MSC

The MSc in Marketing provides students with insights into the marketing management practices of international organisations, and gives the opportunity to understand contemporary marketing theories, based on cutting-edge knowledge gained from academic research and industrial practices.

Students participate in discussions with subject experts and practitioners who visit as guest speakers. They also apply theory to practice through the creation of an entrepreneurial venture with a business plan, and develop an ‘elevator pitch’.

1 year full-time, minimum 3 days per week, January or September start.

www.brunel.ac.uk/courses/postgraduate/marketing-msc

This course is accredited by the Chartered Institute of Marketing (CIM). Graduates can obtain direct entry into CIM’s Chartered Postgraduate Diploma in Marketing.
MASTER’S IN BUSINESS ADMINISTRATION

The MBA is an intensive, research-led programme designed to maximise students’ investment in a global executive career. It is a one-year programme with the option of specialising in Aviation or Healthcare Management.

The richness of the Brunel MBA curriculum is based on the key concepts that can help managers and CEOs develop the expertise required to lead and manage in the international business context. The Leadership Masterclass Series and the Career Development Programme combined with over 500 hours of direct teaching contact hours successfully maintain the balance between theory and practice. MBA students undertake regular visits to companies in the UK such as British Airways and Coca Cola and many companies visit the students on campus as part of the MBA Guest Speaker Series “Let’s Talk Business.” Students have the opportunity to embark on a tour of one of the main economic hubs in the world, to learn about operations of multinational corporations. Recent students met with senior directors of companies such as Cadbury’s, McDonald’s and Merrill Lynch.

1 year full-time, minimum 4 days per week, January or September start.

www.brunel.ac.uk/courses/postgraduate/business-administration-mba

YOU MIGHT ALSO LIKE...

Business Finance MSc ........................................page 58
Media and Communications MSc......................page 95
Business Systems Integration
(with SAP Technology) MSc.........................page 52

VRUSHALI
GLOBAL SUPPLY CHAIN MANAGEMENT MSc

“I’d already made up my mind to do a Master’s in Supply Chain Management before graduating in Automobile Engineering. I was particularly interested in a university with a good reputation that was located in a cosmopolitan city, like my home city of Mumbai.

Brunel University ticked all the boxes: the MSc Global Supply Chain Management offered exactly the right modules and the University has an excellent international reputation with high calibre teaching staff. Added to that, the location couldn’t be better – just 45 minutes to the centre of one of the best cities in the world.

I’ve not only studied alongside students of different nationalities and different cultures, but of different viewpoints, too. Living on campus has been amazing, especially the sporting facilities. Indeed, life at Brunel is one of the most memorable experiences I’ve had so far in my life.”
Civil Engineering at Brunel brings together the traditional and cutting-edge aspects of the subject. Our technical facility, the Joseph Bazalgette Laboratories, has recently seen considerable investment in new equipment. This gives students and researchers the opportunity to use the latest technology to develop innovative materials, and test construction and natural engineering materials under controlled conditions. Innovative structural design and medium and large scale structure tests are possible. There are also opportunities to develop expertise in the ‘real’ world, for example through site investigation and design.

PROJECT AND INFRASTRUCTURE MANAGEMENT MSc

The demand for infrastructure provision and maintenance has become more acute, and this programme will develop graduates and engineers who will be at the forefront of managing developments in this area.

The programme, designed to be relevant to students from a wide range of engineering disciplines, will demonstrate the links between theory and practice by including input from various sources. Modules on, for example, project finance and risk will underpin modules focusing on sustainable project, infrastructure and environmental management. There are many career options, for example in the public sector where graduates are employed in various capacities such as project managers.

1 year full-time.

www.brunel.ac.uk/courses/postgraduate/project-and-infrastructure-management-msc

This course is accredited by the JBM which includes the following professional bodies: the Institution of Civil Engineers, the Institution of Structural Engineers, the Chartered Institution of Highways and Transportation, and the Institute of Highway Engineers.

WATER ENGINEERING MSc

This MSc addresses key challenges associated with the built and natural environments, manufacturing infrastructure, and human and ecological system health and well-being. It aims to tackle a global shortage of qualified water engineers by training graduates with advanced knowledge and skills.

The course is distinctive in bringing together a broad spectrum of applications within water engineering, covering advanced topics in civil engineering, chemical engineering, building services engineering, and sustainable water resources engineering. The programme examines links between theory and practice through input from industrial partners and site visits. The programme has been designed to be relevant to students from a wide range of engineering disciplines.

1 year full-time.

www.brunel.ac.uk/courses/postgraduate/water-engineering-msc

This course is accredited by the JBM which includes the following professional bodies: the Institution of Civil Engineers, the Institution of Structural Engineers, the Chartered Institution of Highways and Transportation, and the Institute of Highway Engineers.
The Department of Computer Science is home to a vibrant and talented community of academics, researchers and students. Recognised for both high quality teaching and research, we attract staff and students from all over the world. We are the largest research group of its type in the country and we were ranked top in the UK in terms of ‘Research Power’ in the last Research Assessment Exercise (RAE). Our postgraduate students benefit from the cutting-edge research carried out by our academics, as well as the strong links we have with business, both national and international.

BUSINESS SYSTEMS INTEGRATION (WITH SAP TECHNOLOGY) MSc

The aim of this cutting edge programme is to develop practical skills and critical awareness in state-of-the-art business/enterprise systems integration, from a service-oriented perspective. During the Business Systems Integration course, students will gain hands-on experience of SAP technology. In addition, they can opt to take the SAP TERP 10 certification course which is a recognised industry qualification. This will be delivered in a two-week block at the end of the programme. Students who successfully complete the certification module will be certified as ‘SAP Consultant Solution Architect ERP – Integration of Business Processes with MySAP ERP.’

1 year full-time, 2 days per week.
2 years part-time, 1 day per week.

www.brunel.ac.uk/courses/postgraduate/business-systems-integration-with-sap-technology-msc

Students who successfully complete the certification module will be certified as ‘SAP Consultant Solution Architect ERP – Integration of Business Processes with MySAP ERP.’
DATA SCIENCE AND ANALYTICS MSc

This course will develop critical awareness of the state-of-the-art in data science and will teach you the practical skills you need to create value in its application to business, scientific and/or social domains. Data scientists are in short supply and this course will give you the tools you need to take advantage of that shortage.

The programme is run in conjunction with SAS and as an integral part of the course you will gain hands-on experience of commercial SAS tools. In addition, you will have the opportunity to obtain SAS certification, a recognised industry qualification. There is also the opportunity for a three month internship in industry at the end of the full-time course.

1 Year full-time, 2 days a week (15 months with Professional Practice).
2 years part-time, 1 day per week.

www.brunel.ac.uk/courses/postgraduate/data-science-and-analytics-msc

DIGITAL SERVICE DESIGN MSc

This course will give you the skills required to work in the digital service design industry, which is seeing major growth worldwide. This course was developed in collaboration with Wilson Fletcher, a leading digital service design consultancy in London, and we are also working with other industrial partners who provide practical course input. The course is skills-based, with a strong emphasis on professional practice. Students will carry out two work placements with digital design companies and will also have the opportunity to undertake a company-sponsored dissertation project. This course is open to applicants from an Arts, Design, Social Sciences, Computer Science or Humanities background.

One year full-time, 2 days per week.

www.brunel.ac.uk/courses/postgraduate/digital-service-design-msc

INFORMATION SYSTEMS MANAGEMENT MSc

This course will develop critical understanding of the management of information systems in the context of people, organisations, processes and information technology. The programme will enable students to deepen and broaden their existing information systems knowledge, with the support of internationally renowned research staff.

Students will also develop their professional and managerial skills, equipping them for a rewarding career in the field of information systems.

1 year full-time, 2 days per week.
2 years part-time, 1 day per week.

www.brunel.ac.uk/courses/postgraduate/information-systems-management-msc

YOU MIGHT ALSO LIKE...

Business Intelligence and Social Media MSc ........................................... page 46
Computer Communication Networks MSc ............................................page 62
Distributed Computing Systems Engineering MSc ........................... page 63
The Creative Writing team at Brunel has published over eighty books between them by the likes of Penguin, Faber and Bloomsbury. Work includes fantasy, thriller, historical, horror, crime, comedy, experimental and feminist fiction, biography, short stories, children’s literature, poetry and performance poetry, as well as scripts for television, film, theatre and BBC radio. Staff have written for national newspapers such as The Times and The Guardian, edited books and magazines, had work translated into many languages, received honours, nominations and awards, judged prizes and sat on national arts and writing committees. Among the members of staff are novelists Professor Will Self, Bernardine Evaristo, Max Kinnings, Sarah Penny, Matt Thorne, Tony White, Matthew De Abaitua, poet and Young Adult author Benjamin Zephaniah and screenwriter Frazer Lee.

These Master’s courses are career-oriented, focusing on current professional practice. Our West London location means you are within reach of the capital’s vibrant arts scene.

CREATIVE WRITING MA

This course has been designed to give expert teaching in a broad range of creative writing. It demonstrates through presentation and practice how to write a novel, an autobiographical memoir, a film script and a feature article, how to teach creative writing, how to organise creative writing events and how to prosper in the creative industries.

1 year full-time, 1 day per week.
2 years part-time, 0.5 days per week.

www.brunel.ac.uk/courses/postgraduate/creative-writing-ma

REBECCA HUBBARD
CREATIVE WRITING MA

“For my MA dissertation I wrote and revised over one hundred garden poems and pieces of flash fiction. My tutor was incredibly generous with his time, help and encouragement and this helped ‘grow’ my writing. I was given sensitive yet incisive feedback, pointed towards further inspirational reading and given ideas about how to structure my thinking and material. A year later, after some revisions and additions, this dissertation became a collection and was accepted for publication by Cinnamon Press.”

Rebecca’s collection The Garden of Shadow and Delight was published in summer 2014.

www.brunel.ac.uk/courses/postgraduate/creative-writing-ma
CREATIVE WRITING: THE NOVEL MA

This MA was designed by writers, for writers to teach everything a new novelist ought to know. It combines a focus on the skills of writing full-length fiction with a clear-eyed exploration of the publishing process and related creative fields. This MA has attracted considerable interest among publishers and literary agents, many of whom participate actively in the programme. The Curtis Brown Prize is awarded annually to the student with the best dissertation.

1 year full-time, 1 day per week.
2 years part-time, 0.5 days per week.

www.brunel.ac.uk/courses/postgraduate/creative-writing-the-novel-ma

YOU MIGHT ALSO LIKE...

Journalism MA.......................... page 73
English Literature MA............... page 64
Brunel Design has an international reputation for high quality taught programmes and research, with strong links with industry and excellent employment figures for graduates. Design at Brunel has evolved to meet the needs of industry worldwide, and many of our graduates have won national and international design awards.

We have an extensive cross-disciplinary lecturing team, including mechanical and electrical engineers, computer and materials scientists, mathematicians, psychologists, and practising designers and graphic artists. It is this cross-disciplinary nature that gives our students the knowledge and expertise they require, and distinguishes us from virtually every other Design and Engineering department in the UK.

**DESIGN AND BRANDING STRATEGY MA**

This world-leading course aims to prepare students from design, creative and related disciplines to develop and envision innovative strategies for growth. This can relate to design, branding (product, services, experience and place), and other professions including education, government and the third sector.

Students will develop high level skills and creative design thinking and will learn to communicate strategies for successful brand building, futures forecasting and change management. Students will benefit from direct contact with design and branding experts through excellent industry networks, research and professional support and tutorials. Modules include Strategic Design Management, Branding Strategy, Innovation Strategy and Management, Design and Branding Futures, Design Research Project and the Dissertation.

1 year full-time.
3 years part-time.

[www.brunel.ac.uk/courses/postgraduate/design-and-branding-strategy-ma](http://www.brunel.ac.uk/courses/postgraduate/design-and-branding-strategy-ma)
Find out more about postgraduate courses and study at Brunel
www.brunel.ac.uk/courses/pg

DESIGN STRATEGY AND INNOVATION MA

“I chose Brunel because of its proximity to London and its exceptional reputation within the design industry. The course exceeded my expectations and helped me develop the skills to pursue a career in branding. I liked the diversity of students taking the course in terms of nationality and professional background. This created an interesting, inspiring environment and resulted in a global network of friends.

One of the highlights was the guest lecture series, where each week we heard from a leader in branding, design and innovation including author and brand guru Wally Olins.

Before the MA I studied Product Design and enjoyed a brief career as a furniture designer. I was keen to move into a more ‘client facing’ role; the course at Brunel acted as a powerful catalyst for that. My job now is to create and nurture new business opportunities at Creative Leap, and I am enjoying it immensely.”

INTEGRATED PRODUCT DESIGN MSc

Attracting students from a wide range of design and engineering backgrounds, this course builds broad expertise in the design of innovative products, services and systems. Students are interested in tackling contemporary design challenges arising from people and society, the environment and business.

We aim to be at the forefront of the evolving global design profession through work with leading experts in design and innovation methods, human factors, CAD and Rapid prototyping, innovation management and sustainable design. Graduates may go on to employment in leading organisations throughout the world, establish their own businesses or continue with research on PhD programmes.

1 year full-time.

www.brunel.ac.uk/courses/postgraduate/integrated-product-design-msc

This course is currently accredited by the Institution of Engineering Designers.

YOU MIGHT ALSO LIKE...

Advanced Engineering Design MSc ....page 38
Applied Corporate Brand Management MSc ............ page 46
Digital Design and Branding MSc ........page 62
ECONOMICS AND FINANCE

Economics and Finance at Brunel is one of the ten largest economics departments in the UK with a focus on integrating Economics, Finance and Accounting. Our MSc programmes prepare students for careers in banking, business, finance and accounting and for PhD research in economics. Our teaching is informed by our internationally acclaimed research in financial markets and institutions, macro- and microeconomics, development, financial accounting, corporate governance and econometrics. Many of our academics advise governmental and intergovernmental organisations on economic policy and bring this real-world experience to their teaching.

BANKING AND FINANCE MSc

This programme provides you with training to develop your career in the banking and financial services sector. You will gain a thorough understanding of this field through practical and theoretical application, addressing financial economics, economics of banking, quantitative methods as well as financial regulation both within the organisation and internationally.

Graduates can pursue a range of careers in financial institutions, banking regulatory organisations and investment banks. Internationally, graduates are attractive candidates for domestic regulators and private sector banks. Other graduates work in the financial services sector and undertake doctoral research.

1 year full-time, up to 5 days per week.
2.5 years part-time one day per week.

www.brunel.ac.uk/courses/postgraduate/banking-and-finance-msc

BUSINESS FINANCE MSc

This MSc focuses on corporate finance and financial analysis, and has been training business finance analysts since 1991. By studying the operation and design of corporate financial systems, and analysing business financing and investment decisions, this course should enable students to find a role within the finance department of large firms or in government bodies, as well as provide them with tools to help organise smaller businesses.

The objective of this MSc is to produce graduates with a comprehensive knowledge and understanding of business finance and company valuation within the context of modern financial markets, without necessarily requiring a high level of mathematical or statistical knowledge as a prerequisite. The key transferable research skills acquired will enable students to proceed to PhD study, undertake further professional development and seek career opportunities within financial management. Students will undertake empirical investigations using data from Bloomberg, Thomson (one), Reuters 3000 Xtra and DataStream.

1 year full-time, up to 5 days per week.
2.5 years part-time one day per week.

www.brunel.ac.uk/courses/postgraduate/business-finance-msc

FINANCE AND ACCOUNTING MSc

This joint course develops skills in the theory of finance, company valuation, the assessment of corporate risk, international accounting standards, corporate governance and financial statement analysis. Data and modelling skills can be developed according to the level and interest of the student. Students will be registered and encouraged to obtain certification in Bloomberg, Thomson One (Banker) and DataStream.

1 year full-time, up to 5 days per week depending on chosen modules.

www.brunel.ac.uk/courses/postgraduate/finance-and-accounting-msc
**FINANCE AND INVESTMENT MSc**

This course focuses on security/portfolio investment decision making and draws on the syllabus of the Chartered Financial Analysts Institute. The course emphasises investment strategies, the evaluation of investment performance, and the evaluation of company performance. Students whose career interests lie with financial institutions or in financial management will obtain the essential analytical tools and techniques. Students will be registered and encouraged to obtain certification in Bloomberg, Reuters 3000 Xtra and DataStream. The course may also be of interest to applicants who are already practitioners in the financial field.

The core units provide a rigorous treatment of the theory of corporate finance and the econometric and mathematical techniques necessary to understand academic literature. The course provides a sound foundation for those interested in continuing to a PhD.

1 year full-time, up to 5 days per week depending on chosen modules.

**SPECIAL FEATURES**

- We have excellent links with business and the finance industry – this means we can help you network with organisations and businesses
- You will have access to professional databases used in the business and finance industry, such as Bloomberg and Bankscope
- Guest lectures including talks by professionals from the private sector are an important part of our programme.

**YOU MIGHT ALSO LIKE..**

- Accounting and Business Management MSc ................. Page 46
- Financial Mathematics MSc..............................Page 77
EDUCATION

Education at Brunel is a vibrant community that responds to external forces with expertise and enthusiasm. Our expertise is dedicated to the education of teachers, youth and community workers and other related professionals, both those entering the profession and those who are established.

Brunel has unrivalled experience in teacher training — one of the University’s founder colleges was the first teacher training college in the British Commonwealth. Brunel is a leading research centre for work in supportive education, with particular expertise in high-ability children and those with learning difficulties. Our Primary Education courses are rated as ‘excellent’ by Ofsted.

EDUCATION MA

This course is designed for those with a broad interest in education. It enables students to undertake a high-level, critical evaluation of educational theory and practice, and develop the skills and confidence to enhance professional practice in learning organisations.

This course is available with specialisms in:

- Education Management
- Gifted Education
- Special Educational Needs
- Science, Maths and Technology

Three core modules cover the central issues of educational research: assessment; learning and teaching; and professional education. Three option modules can also be selected. The dissertation allows students to undertake a substantial, critically informed and independent research project in a particular field of education.

1 year full-time, 2 evenings a week normally on Tuesday and Wednesday.
2.5 years part-time, 1 evening a week.

www.brunel.ac.uk/courses/postgraduate/education-ma

MA IN TEACHING (MAT)

This course is designed for Newly Qualified Teachers who want to make a real difference to pupils’ learning outcomes and allows for the transformation of 60 PG Cert credits into a Master’s degree. The course will enable participants to cultivate a research-informed, critical approach to the development of their practice, providing opportunities to accelerate career progression by developing high quality expertise. The focus is on the processes of teaching and learning and the programme is rooted in participants’ own school-based experience. A distinctive feature of this course is the combination of social science and educational concepts such as pedagogy, socio-cultural diversity and motivation with practitioner enquiry outcomes.

The MA in Teaching blends face-to-face sessions with online study components, with the year 1 fee waived for Newly Qualified Teachers working in enhanced partnership schools.*

* For more information please visit the course web page

3 years part-time, 3 Saturday conferences each year

www.brunel.ac.uk/courses/postgraduate/ma-in-teaching-mat

PGCert PRIMARY EDUCATION

The Primary PGCert programme is currently rated as ‘excellent’ by Ofsted. This course offers you the opportunity to qualify as a teacher across the primary age range from 5 to 11 years.

This intensive, course combines rigorous attention to subject knowledge and pedagogy with high-quality opportunities for extended practice in schools. The Brunel PGCert Primary Education also offers you the chance to develop specialisms in particular aspects of the primary curriculum.

1 year full-time, end of August to end of May, including 24 week School experience.

www.brunel.ac.uk/courses/postgraduate/pgcert-primary-education-with-qts
PGCert SECONDARY EDUCATION

The PGCert Secondary Education is planned and delivered in very close partnership with successful schools in our region. Each subject aims to equip graduates to teach the National Curriculum across the 11-16 age range with post-16 enhancement. You will learn to teach by combining development of your subject knowledge, attending lectures and seminars about effective teaching, and engaging in extended practice-periods in schools with structured, critical reflection on your developing practice and on the key policies that inform schools and schooling.

We offer the following specialist subject routes:

• Computer Science and Information and Communication Technology
• Mathematics
• Physical Education
• Physics with Mathematics
• Science with Biology
• Science with Chemistry
• Science with Physics

Full-time.

www.brunel.ac.uk/courses/postgraduate/pgcert-information-and-communication-technology-secondary
www.brunel.ac.uk/courses/postgraduate/pgcert-mathematics-secondary
www.brunel.ac.uk/courses/postgraduate/pgcert-physical-education-secondary
www.brunel.ac.uk/courses/postgraduate/pgcert-secondary-education-physics-with-mathematics
www.brunel.ac.uk/courses/postgraduate/pgcert-secondary-education-science-with-biology
www.brunel.ac.uk/courses/postgraduate/pgcert-secondary-education-science-with-chemistry
www.brunel.ac.uk/courses/postgraduate/pgcert-secondary-education-science-with-physics

YOU MIGHT ALSO LIKE...

Children, Youth and International Development MA.............page 93
Anthropology of Childhood, Youth and Education MSc ...............page 40

REBECCA SHEVLIN

PGCert PRIMARY EDUCATION

“I chose Brunel because I wanted a range of experience in different schools and Uxbridge has a multi-cultural society, so I could gain experience with children from different religions and cultures. I have thoroughly enjoyed going into different schools, meeting new people and hearing about teachers’ experiences and advice. The lecturers are friendly and teach in creative ways during workshops. My personal tutor has been very supportive and there is always someone that will talk to you if you are feeling overwhelmed or stuck.

I am currently working on lesson planning for a literacy topic on play scripts. My tutor come in to observe a literacy lesson and I received excellent feedback and was told my lesson was outstanding, which is a massive achievement. I have also accepted a job at a primary school.”
ELECTRONIC AND
COMPUTER ENGINEERING

Our programmes are aimed at developing the knowledge, skills and expertise necessary to match the rapid increase in industry needs for highly qualified engineers across the full breadth of Electronic and Computer Engineering as well as Digital Media Design and Technologies. The department boasts high quality teaching and learning resources, strong research links with industry and a good record of employment among graduates.

ADVANCED ELECTRONIC AND ELECTRICAL ENGINEERING MSc

This course is specifically designed for students who wish to pursue advanced studies across the range of specialist areas relevant to electronic and electrical engineering. It offers a broad profile that will be of interest to a wide range of potential employers of professional electronic and electrical engineers. A distinctive feature of this MSc is its flexible structure, allowing students to customise the structure and content of the course to meet their academic interests and career aspirations.

1 year full-time.

www.brunel.ac.uk/courses/postgraduate/advanced-electronic-and-electrical-engineering-msc

ADVANCED MULTIMEDIA DESIGN AND 3D TECHNOLOGIES MSc

This course aims to develop thorough knowledge of the principles and techniques required for the design of combined real and virtual, interactive and 3D multimedia, and an appreciation of research opportunities that exist in this field. This course aims to develop: advanced skills for the design and creation of combined multimedia; the ability to design and realise complex combined multimedia creations across different media; and the creativity and independent learning required for continual professional development, further research and the acquisition of new skills.

1 year full-time, 2 years part-time.

www.brunel.ac.uk/courses/postgraduate/advanced-multimedia-design-and-3d-technologies-msc

COMPUTER COMMUNICATION NETWORKS MSc

Computer and communication networks are a rapidly expanding sector with exciting career prospects. This course provides the opportunity to acquire strong practical and theoretical knowledge through a broad range of modules including Network Computing, Network Security and Data Encryption, Network Design and Management, and Optical and Wireless Communication Systems. The course features a number of well-designed labs and group projects to help students practise and assimilate concepts more easily, as well as a dissertation.

1 year full-time.

www.brunel.ac.uk/courses/postgraduate/computer-communication-networks-msc

This course is accredited by the Institution of Engineering and Technology. We will be seeking re-accreditation for 2015 onwards.

DIGITAL DESIGN AND BRANDING MSc

This course offers a unique opportunity to gain an understanding of digital media design and technologies for branding. As technologies continue to develop in terms of speed, availability and functionality, even greater opportunities will arise for individuals who are able to combine traditional marketing insight with an understanding of digital media, capturing these benefits and articulating them at both an academic and vocational level. This programme aims to fill a gap by developing the knowledge and practical experience of both digital design and branding concepts.

1 year full-time.

www.brunel.ac.uk/courses/postgraduate/digital-design-and-branding-msc
SUSTAINABLE ELECTRICAL POWER MSc

This programme meets the industrial demand for the training and education of engineers in the advanced concepts of sustainable electrical power, renewable energy systems and smart grids. It aims to produce graduates with the skills and knowledge to lead teams involved in the operation, control, design, regulation and management of the power systems and networks of the future. It will meet the demand for research and development into sustainable electrical power and for the advanced training and education of existing and future power engineers.

1 year full-time, 35 hours a week for 8 weeks, 3 hours a week for 6 weeks plus dissertation lectures. 2 years part-time.

www.brunel.ac.uk/courses/postgraduate/sustainable-electrical-power-msc

We are currently seeking re-accreditation by the Institution of Engineering and Technology and the Energy Institute for 2015 onwards.

EMBEDDED SYSTEMS MSc

EMBEDDED SYSTEMS (SIGNAL PROCESSING) MSc

EMBEDDED SYSTEMS (MULTIMEDIA COMMUNICATIONS) MSc

Embedded systems are specialised devices that perform most of the impressive functionalities found within complex systems, such as those in telecommunications, multimedia, transportation and aerospace. This course integrates academic study with the realisation of embedded systems, with an emphasis on communications, multimedia, signal processing, and intelligent systems. You will study the fundamentals of embedded systems combined with extensive practical, hands-on work surrounding their design, modelling and implementation.

1 year full-time.

www.brunel.ac.uk/courses/postgraduate/embedded-systems-signal-processing-msc
www.brunel.ac.uk/courses/postgraduate/multimedia-communications-msc

DISTRIBUTED COMPUTING SYSTEMS ENGINEERING MSc

This MSc will equip graduates with a grounding in advanced distributed systems engineering, together with deep insight into the technologies being utilised in large-scale networked enterprise and Internet systems. This MSc delivers a broad range of topics including computer networks, network security and data encryption, distributed system architecture, Google's MapReduce programming model, software engineering for large scale distributed systems, and emerging computing technologies such as cloud computing.

1 year full-time on campus or 18 months full-time off campus at Esslingen, Germany.

www.brunel.ac.uk/courses/postgraduate/distributed-computing-systems-engineering-msc

WIRELESS COMMUNICATION SYSTEMS MSc

The evolution of wireless communication systems and networks is accelerating at an extraordinary pace. The increase in the use of smart phones, Machine to Machine communication systems, sensor networks, digital broadcasting networks and Smart Grid schemes has brought tremendous technological growth in this field. This global phenomenon outstrips the ability of commercial organisations to recruit personnel equipped with the necessary blend of technical and managerial skills who can initiate and manage the introduction of new technologies in this field.

Incorporating theoretical and practical aspects, this course aims to develop detailed technical knowledge of current practice. You will study the fundamentals of wireless communication systems and the latest innovations.

1 year full-time.

www.brunel.ac.uk/courses/postgraduate/wireless-communication-systems-msc

We will be seeking re-accreditation from the Institution of Engineering and Technology for 2015 onwards.

YOU MIGHT ALSO LIKE...

Digital Service Design MSc.........................page 53
Design and Branding Strategy MA............page 56
Digital Games: Theory and Design MA ...., page 69
ENGLISH

Postgraduate studies in English at Brunel are delivered by a team of internationally renowned scholars in such diverse areas as Early Modern Studies, Queer Theory, Postcolonial and Transatlantic Studies, Literary Theory and Biography.

The programme is resolutely student-centred, international in flavour and in close conversation with the related MAs in Creative Writing. Students have weekly contact with world-renowned professors delivering subject-leading material in a unique department marked by commitment to the development of new ideas within a creative context, yet always with an eye to the origins and traditions of English Literature as a discipline.

ENGLISH LITERATURE MA

The MA in English Literature is designed for those wishing to prepare for further research, or to take their general studies in English Literature further and enhance their career prospects.

The programme offers the opportunity to study a wide range of topics and periods, from the early Modern/Renaissance through to the modern and contemporary. Taught by world-leading specialists, students will take a unique, concept-led compulsory module as well as choosing from a range of options.

1 year full-time, 1 day per week. 2 years part-time, 0.5 days per week.

www.brunel.ac.uk/courses/postgraduate/english-literature-ma

YOU MIGHT ALSO LIKE...

Creative Writing MA........................................ page 54
Journalism MA...................................................page 73
MATTI RON

ENGLISH LITERATURE MA

"On returning to the UK and re-entering education after several years abroad I decided that Brunel would be the best place for me for my Master's in English Literature. I was not wrong! The Master’s was certainly no run-of-the-mill literature course, drawing heavily on a wide variety of disciplines to understand texts not just in themselves but as reflections of the societies in which they were created. Themes such as post-colonialism, multiculturalism and gender equality are used to interrogate the texts just as the texts are used to interrogate the themes themselves. As such, the English Literature Master’s student at Brunel finishes their course with both a deeper understanding of wide range of literature and social questions which have engaged humanity since the Enlightenment.

I have been supported in pursuing my interest in the development of literary representations of working class London from the 1930s to the present day, with expert advice from staff specialising in London literature, multiculturalism and contemporary writing. Such has been the support I have received that, completely contrary to my expectations when I began the course, it has encouraged me to continue my studies at PhD level."

Find out more about postgraduate courses and study at Brunel
www.brunel.ac.uk/courses/pg
The Institute for the Environment – or IfE – is a rapidly expanding research centre housing a strong team of leading experts held in high international regard. Research in the Institute tackles a diverse number of environmental science issues. We have excellent toxicology and ecotoxicology facilities, a wide range of testing and analysis equipment, and state-of-the-art equipment for the chemical analysis of samples.

**ENVIRONMENTAL SCIENCE – LEGISLATION AND MANAGEMENT MSc**

This course addresses the principles necessary for the successful implementation of sound environmental management practice, and the up-to-date legal processes involved in environmental control. The course bridges the gap between fundamental scientific and technical data and the management decision-making process. You will also acquire the tools needed for environmental management, including project management, life cycle analysis, environmental reviews and audits. The MSc is suitable for graduates who hope to develop a career in the environmental industry or in public bodies concerned with environmental management and legislation.

1 year full-time, 2 days per week, plus site visits. 2 years part-time, 1 day per week, plus site visits.

**CLIMATE CHANGE IMPACTS AND SUSTAINABILITY MSc**

This is an interdisciplinary programme that explores the likely impacts of global climate change on society and the wider environment. The programme is ideal for students with a background in science, social science or law, though other disciplines will be considered. We aim to provide students with an interdisciplinary knowledge of the potential impacts of global warming and climate change across a variety of key areas, including public health, business and economics, national and international policy and technological development, underpinned by a critical understanding of the concept of sustainability.

1 year full-time, 2 days per week, plus site visits. 2 years part-time, 1 day per week, plus site visits.

**DIANIlla Feld**

**Sustainability, Entrepreneurship and Design MSc**

“The lecturers are extremely helpful and dedicate a lot of time to students. The lectures are very interactive and engaging. I feel the course has prepared me with the knowledge I need to enter the working world. I have thoroughly enjoyed the course and would recommend it to anyone with an interest in sustainability.”

www.brunel.ac.uk/courses/postgraduate/climate-change-impacts-and-sustainability-msc

www.brunel.ac.uk/courses/postgraduate/environmental-science-legislation-and-management-msc
ENVIRONMENTAL SCIENCE – POLLUTION AND MONITORING MSc

This programme is suitable for graduates or those with relevant experience who wish to develop a career in practical environmental monitoring and control for industry, consultancies and public bodies, using applied environmental science. The course provides a rigorous academic treatment of the fundamental scientific principles and practice of assessing and controlling the extent of environmental damage caused by humankind’s activities. It emphasises the processes and techniques relating to the reduction of emissions to air, land and water, and the subsequent effects of the pollution. Potential careers lie in fields such as environmental science, health protection and regulatory processes.

1 year full-time, 2 days per week, plus site visits.
2 years part-time, 1 day per week, plus site visits.

SUSTAINABILITY, ENTREPRENEURSHIP AND DESIGN MSc

The results of unsustainable human development are evident as climate change, species extinction, pollution, poverty and inequality become global realities. The next challenge for society is to transform our economy to incorporate principles of sustainability. This presents an exciting opportunity to rethink, redesign and rebuild a positive future for business practice. This MSc will include the option for a further six month professional development period.

1 year full-time, 5 days per week.

YOU MIGHT ALSO LIKE...

Sustainable Energy – Technologies and Management MSc
FILM AND TV

Film and TV offers exciting postgraduate courses taught by a team of enthusiastic staff who have published widely on their subjects. We put a high priority on links between teaching and research, which means you’ll be taught directly by authorities in the field. You’ll also be able to benefit from our contacts with industry and have opportunities to gain work experience.

We offer a dynamic combination of analysis and practical work, the latter taking advantage of state-of-the-art HD equipment. You will have the chance to hear from visiting industry speakers.

**DOCUMENTARY PRACTICE MA**

This MA aims to give students the opportunity to creatively, practically and critically engage with documentary film from a variety of traditions. The course is structured to provide you with training and professional expertise in both dominant/mainstream documentary production techniques and procedures and alternative traditions. This dual focus and the unprescriptive ethos of the course make it a unique space to develop your imagination and knowledge about the documentary.

1 year full-time, 2-3 days per week. 2 years part-time, 1 day per week in Year 1; 2 days per week in Year 2.

[www.brunel.ac.uk/courses/postgraduate/documentary-practice-ma](http://www.brunel.ac.uk/courses/postgraduate/documentary-practice-ma)

**MEDIA AND PUBLIC RELATIONS MA**

The academic study of PR and the media is recent, and this new MA puts Brunel at the forefront of this research.

The research interests of the teaching team have given the MA a distinctive character, and the course examines the role of PR in shaping output both within media organisations themselves and in relation to the external impact of PR on the media. The focus on PR within the media will range from large corporations to smaller-scale forms including ‘DIY’ practices employed by lower-budget producers, online channels, key areas of development in PR and marketing more generally.

1 year full-time, 2 days per week. 2 years part-time, 1 day per week. Full-time students should also expect to spend 1 day in the library and 1 day on research per week.

[www.brunel.ac.uk/courses/postgraduate/media-and-public-relations-ma](http://www.brunel.ac.uk/courses/postgraduate/media-and-public-relations-ma)
GAMES DESIGN

We have a team of experienced games researchers and industry professionals teaching on this well-regarded, world-class programme. Our students take workshops led by designers working in the industry. Many graduates from our successful MA have gone to work in a range of roles within the games industry. We have a dedicated Games Lab which provides a great place to play games of all formats old and new, and mix with staff and students investigating this exciting new academic topic.

DIGITAL GAMES: THEORY AND DESIGN MA

This Master’s will enable you to engage in, and experiment with, practical game design. Your conceptual and analytic skills are developed through the analysis of games and their contexts. Different types of games are explored with the aim of encouraging innovative designs. This programme offers a unique focus on practical games design, informed by theory that is not offered by any other university. It is not a software or graphics training programme.

1 year full-time, 2 days per week. 2 years part-time, 2 days per week in Year 1; 1 day per week in Year 2.

www.brunel.ac.uk/courses/postgraduate/digital-games-theory-and-design-ma
Health at Brunel has a truly multidisciplinary focus with staff from a range of professional, subject and disciplinary backgrounds. Their expertise is applicable to many aspects of ‘health’ in its broadest sense, such as health research, health promotion and public health, health care law, health and social policy, community health care nursing, health economics, occupational health and safety, health management and counselling.

AGEING STUDIES PGCert/PGDip/MSc

The Master’s in Ageing Studies has been developed by the Brunel Institute for Ageing Studies (BIAS) in response to meeting the emerging needs amongst health care professionals to develop skills, knowledge and expertise which would enable those dealing with elderly people to operate more effectively.

This course is suitable for professionals working in health and social care, the voluntary sector, care homes, and education, as well as graduates from other disciplines such as social sciences contemplating a career that involves working with older adults.

PGCert: 1 year part-time. PGDip: 2 years part-time. MSc: 3 years part-time.

www.brunel.ac.uk/courses/postgraduate/ageing-studies-msc
PUBLIC HEALTH AND HEALTH PROMOTION MSc

The aim of this course is to enable students to gain advanced skills, principles and knowledge in public health and health promotion whilst also developing a critical and multidisciplinary approach to the complexities of public health and health promotion challenges and possibilities. The programme reflects the multidisciplinary nature of public health and health promotion and includes health policy, politics, sociology, psychology, and advanced academic and research skills.

The programme promotes active learning and a research-led approach, providing an opportunity to conduct a piece of empirical research. The course will be of interest to a wide range of professionals working in health and social care, local government, education and the voluntary sector as well as graduates contemplating a career in public health and health promotion.

1 year full-time, 3 days per week. 3 years part-time, 1-2 days per week in Years 1 and 2; Year 3 is devoted to the dissertation.

www.brunel.ac.uk/courses/postgraduate/public-health-and-health-promotion-msc

SPECIALIST COMMUNITY PUBLIC HEALTH NURSING MSc AND PGDip

This Statutory Body approved course is designed for those with initial nurse registration who wish to become specialist community public health nurses in one of three areas of practice:

- Health Visiting
- Occupational Health Nursing
- School Nursing

Successful students gain entry to the Nursing and Midwifery Council Register in their chosen field of practice for their professional award and postgraduate diploma. The course, which is 52 weeks long, involves supervised practice within appropriate settings. Students can progress to and complete the MSc by undertaking a dissertation module.

1 year full-time, 2 days per week plus 2 days per week in practice. 2 years part-time, 1 day per week.

www.brunel.ac.uk/courses/postgraduate/specialist-community-public-health-nursing-msc-and-pgdip

HEALTH INFORMATION FOR CLINICAL MANAGEMENT PGCert/PGDip/MSc

This MSc has been developed in response to the growing importance of the efficient use of health information and the associated technology to shape service operations and service improvement initiatives. This unique programme is based on a co-funding award from the National Health Service in London to support continuing professional and personal development within the NHS workforce.

Students seeking careers in this developing area of using health information will find this programme beneficial. This MSc has also been developed for NHS managers, clinical leaders and clinicians in Nursing and Allied Healthcare Professional services. NHS professionals from areas such as HR, Workforce Development, Training, Equality and Diversity, Commissioning, Service Modernisation, Health Improvement, Public Health, Health Promotion, Social Marketing, Mental Health, and Public/Patient Engagement may find the programme relevant.

PGCert: 1 year part-time. PGDip: 2 years part-time. MSc: 3 years part-time.

www.brunel.ac.uk/courses/postgraduate/health-information-for-clinical-management

YOU MIGHT ALSO LIKE...

Medical Anthropology MSc......................... page 41
Psychology, Health and Behaviour MSc..... page 91
Journalism is a dynamic, creative and highly competitive working environment. Our courses are designed to address an increasing need for critically engaged professionals, equipped with up-to-date skills for a rapidly changing media landscape. Taught in small groups to ensure close support, we address the current needs of industry through a rigorous grounding in the fundamentals – writing, reporting, sourcing and solid (ethical) editorial judgement. Our courses are National Council for the Training of Journalists (NCTJ) accredited, so that you get a qualification that really counts. You will learn from top industry names – our staff have a breadth of industry experience across the media and we have regular leading guest speakers from industry. You will learn in our purpose-built newsroom and editing suites – expertise and industry-standard hardware and software for print, broadcast and online will be available to you.

Graduates of our degrees are now working for The Independent, The Times, IPC Magazines, Caters News Agency, Sky Sports News, BuzzFeed and many more.
INTERNATIONAL JOURNALISM MA

This MA is designed so that students will have an all-round grounding in multiplatform journalism skills along with advanced understanding of the context of journalism in the modern world.

The course addresses the global expansion in the journalism industry by contextualising different forms of journalistic practice within a framework of technological, political and cultural change.

Special features include:

- multi-skilling in journalism technology;
- emphasis on writing for global journalism;
- specialist activity for informed career choice;
- journalism practice contextualised within a framework of technological, legal, political and cultural change;
- work placement, with experience of real-world journalism, supported by strong Brunel/industry links.

1 year full-time, 3-4 days per week.

www.brunel.ac.uk/courses/postgraduate/international-journalism-ma

NCTJ accredited.

JOURNALISM MA

Brunel’s MA in Journalism is one of the best-performing postgraduate newspaper journalism courses in the UK, according to the National Council for the Training of Journalists (NCTJ).

The programme’s strong employment record is justified by its graduates’ success beyond Brunel. Accredited by the NCTJ, students undergo a rigorous training in professional journalism skills and knowledge, including news writing, Teeline shorthand, government and law. The programme also teaches cutting-edge production skills in a digital multi-media context.

Students will gain an understanding of journalism practice, and interrogate contextual and ethical issues including the role of spin doctors and freedom of information.

1 year full-time, 4 days per week. 2 years part-time, Year 1, 2.5 days per week; Year 2, 1-2 days per week dependent on module choice.

www.brunel.ac.uk/courses/postgraduate/journalism-ma

NCTJ accredited.

YOU MIGHT ALSO LIKE...

English Literature MA................................., page 64
Creative Writing MA................................., page 54
Media and Communications MSc...............page 95
Media and Public Relations MA............... page 68
Law at Brunel offers a diverse portfolio of courses catering to the interests of continuing students and returning professionals aiming to enhance their careers and develop expertise in their chosen subject. Our programmes are taught by internationally recognised experts, ensuring you will be equipped with skills to make you a better professional. Nearly all of our courses have an international emphasis, giving students a global perspective which is often sought by employers.

Students are encouraged to take advantage of the benefits of our active research groups, which focus on the areas of commercial law, intellectual property, human rights, criminal justice, family law, and law and religion. The research groups regularly host events such as conferences, seminars and workshops.

CPE/GRADUATE DIPLOMA IN LAW

The CPE programme has become an established and widely recognised route into both branches of the legal profession. The Joint Academic Stage Board externally validates the programme, which is specifically designed to enable non-law graduates to satisfy the academic stage of the process of legal training. This enables successful students to embark on a vocational training course with a view to entering the legal profession as a solicitor or barrister.

The programme covers the core modules that constitute a qualifying Law degree (and therefore exemption from the academic stage of legal training) in an accelerated one-year format. There is a two-week full-time induction programme for all students that supports the transition from a non-law discipline.

1 year full-time, minimum 4 days per week.
2 years part-time, 2 days per week.

INTELLECTUAL PROPERTY LAW PG CERTIFICATE

This course provides a comprehensive overview of theoretical and practical aspects of intellectual property law, and attracts law graduates and those with backgrounds in sciences, technology and the humanities. Upon successful completion of the Intellectual Property Law PG Certificate, students who wish to qualify as a Patent Attorney in the UK will receive exemptions from the foundation level papers set by the qualifying examinations agencies. The programme will provide students with essential knowledge about the theoretical rationales and policy arguments for the recognition of intellectual property rights.

8 months part-time, Wednesday 1-5pm.

www.brunel.ac.uk/courses/postgraduate/intellectual-property-law-pgcert
INTERNATIONAL COMMERCIAL LAW LLM
This research-led programme is designed for law graduates who wish to develop specialist knowledge of differing aspects of international commercial law. It focuses on conceptual and theoretical sources of the substantive laws regulating the fields of study; the procedural mechanisms; and the challenges that attend the evolution of principles, rules and procedures. Specialists with a qualification of this type are increasingly sought by law firms, businesses and government bodies in response to the expansion of international trade, commerce and regulation in the current dynamic marketplace dominated by rapid economic, political and technological change.

Full-time: September start (12 months), January start (15 months due to dissertation submission requirements). Part-time: September start (24 months), January start (27 months due to dissertation submission requirements).

INTERNATIONAL FINANCIAL REGULATION AND CORPORATE LAW LLM
This course is a specialist international programme designed for students seeking to gain a solid foundation in a discipline that continues to grow. This course aims to support students to become practitioners or to continue with further studies and research. It provides students with knowledge and understanding of selected areas of international financial regulation and corporate law, focusing on conceptual and theoretical sources of the substantive laws regulating the fields of study; the relevant procedural mechanisms; and the challenges that attend evolution of principles, rules and procedures.

Full-time: September start (12 months), January start (15 months due to dissertation submission requirements). Part-time: September start (24 months), January start (27 months due to dissertation submission requirements).
INTERNATIONAL HUMAN RIGHTS LAW LLM
This programme is designed to enable its graduates to become human rights practitioners, advocates and critical scholars. Students are taught by leading academics with a wide range of expertise in human rights practice, policy, activism and governmental, international and non-governmental organisations. Students will have the opportunity to engage with many of the human rights issues that feature in today’s public debate.

Full-time: September start (12 months), January start (15 months due to dissertation submission requirements). Part-time: September start (24 months), January start (27 months due to dissertation submission requirements).

www.brunel.ac.uk/courses/postgraduate/international-human-rights-law-llm

INTERNATIONAL INTELLECTUAL PROPERTY LAW LLM
This is one of the fastest growing fields of law internationally. Rapid development of new technologies and a complex international legislative framework make it an outstanding career path opportunity, as the undisputed relevance of intellectual property in innovation and access to knowledge makes specialist practitioners increasingly in demand. Intellectual Property Law at Brunel is supported by an internationally recognised research centre, in which students are encouraged to participate.

Full-time: September start (12 months), January start (15 months due to dissertation submission requirements). Part-time: September start (24 months), January start (27 months due to dissertation submission requirements).

www.brunel.ac.uk/courses/postgraduate/international-intellectual-property-law-llm

MASTER OF LAWS (LLM LAW)
This highly-flexible programme enables students to tailor their studies and create a bespoke programme to suit their academic or professional objectives. There is a large and diverse range of modules, most of which reflect aspects of our areas of expertise in Intellectual Property, Human Rights, Financial, Corporate and Commercial Law. With 15 unit modules available, students can choose modules from a specific subject area to gain in-depth knowledge, or choose to study a variety of subjects.

Through studying this course, students will gain a good grounding in the legal concepts and principles operating in the areas of law they choose.

Full-time: September start (12 months), January start (15 months due to dissertation submission requirements). Part-time: September start (24 months), January start (27 months due to dissertation submission requirements).

www.brunel.ac.uk/courses/postgraduate/law-general-llm

YOU MIGHT ALSO LIKE...
Public Affairs and Lobbying MSc................ page 89
Globalisation and Governance MA.......... page 86
Anthropology of International Development and Humanitarian Assistance MSc......... page 40
Finance and Accounting MSc............... page 58
MATHEMATICS

Mathematics at Brunel is home to a vibrant and talented community of students, researchers and academics. Our courses and research probe deep mathematical problems, including a range of modern applications of crucial importance to society.

FINANCIAL MATHEMATICS MSc

Mathematical finance is an area of applied mathematics where concepts and techniques that lie close to the heart of pure mathematics are applied routinely to solve a great variety of important practical problems arising in the day-to-day business of financial institutions. The objective of the MSc in Financial Mathematics is to guide students through to a mastery of the sophisticated mathematical ideas underlying modern finance theory, along with the associated market structures and conventions, with emphasis on: the modelling of financial assets, both in equity markets and in fixed-income markets; the pricing and hedging of options and other derivatives; and the quantification and management of financial risk.

We offer a programme that provides a balanced mixture of advanced mathematics (probability theory, stochastic calculus, etc), modern finance theory (derivatives, interest rates, foreign exchange, etc), and computational technique (GPU-based high-performance computing).

1 year full-time, 2 years part-time.

www.brunel.ac.uk/crses/postgraduate/financial-mathematics-msc
MECHANICAL ENGINEERING

Mechanical Engineering at Brunel has an excellent track record and an international reputation for research.

Numerous outside organisations collaborate with us including teaching hospitals, governmental laboratories, international universities and a range of companies. Laboratory facilities are extensive, modern and well-equipped, including the dedicated aerospace/aviation laboratory, flight simulator, professionally designed Brunel motorsport workshop, modern material/structure testing laboratory, and state-of-the-art IC engine laboratories.

ADVANCED MECHANICAL ENGINEERING MSc

The primary aim of this course is to train graduates with the qualities and transferable skills needed for employment in the engineering sector. Specifically, this programme aims to:

• provide a postgraduate-level education that will enable graduates to proceed to Chartered Engineer status
• develop the versatility to deal with challenges across a range of engineering areas
• develop the imagination and creativity needed for a successful engineering career

1 year full-time.

www.brunel.ac.uk/courses/postgraduate/advanced-mechanical-engineering-msc

This course is accredited by the Institution of Mechanical Engineers.

AEROSPACE ENGINEERING MSc

The course is designed to equip graduate engineers with the technical and professional skills required in the highly demanding aerospace industry. Over twelve months, students will study topics such as: aircraft design; aircraft structures; aero-elasticity; aerodynamics; space mechanics; propulsion systems; aircraft safety and security; and flight performance evaluation using the flight simulator. These modules are balanced with practical and challenging individual and group project work, followed by an individual dissertation. In order to fully develop students’ professional potential, the course also teaches strategic management, enterprise, research and innovation.

1 year full-time.

www.brunel.ac.uk/courses/postgraduate/aerospace-engineering-msc

This course is accredited by the Institution of Mechanical Engineers and the Royal Aeronautical Society.
AUTOMOTIVE AND MOTORSPORT ENGINEERING MSc

This MSc equips graduates with the knowledge and skills to work in the multi-disciplinary environment typically encountered in the automotive and motorsport engineering industry. The programme enables students to develop imagination and creativity to follow a successful engineering career and attain senior positions within companies and organisations in the automotive and motorsport sectors. The course combines taught modules, a group project and an individual dissertation and is organised to give students the option to specialise, if they wish, in automotive engineering or motorsport engineering.

1 year full-time, 5 days a week.

www.brunel.ac.uk/courses/postgraduate/automotive-and-motorsport-engineering-msc

This course is accredited by the Institution of Mechanical Engineers.

BIOMEDICAL ENGINEERING:

BIOMEDICAL GENETICS AND TISSUE ENGINEERING MSc

BIOMEDICAL, BIOMECHANICS AND BIOELECTRONICS ENGINEERING MSc

The MSc programmes in Biomedical Engineering address commercial, ethical, legal and regulatory requirements, aided by extensive industrial contacts, as well as giving a solid scientific understanding. Students will develop expertise in advanced product development and research, making the most of our extensive and well-equipped laboratories. Students who successfully complete the course will have acquired skills that are essential to the modern biomedical and healthcare industry, together with the expertise required to enter into management, product innovation, development and research. Students can choose either the Biomedical Genetics and Tissue Engineering stream or Biomedical, Biomechanics and Bioelectronics Engineering stream.

1 year full-time.

www.brunel.ac.uk/courses/postgraduate/biomedical-genetics-and-tissue-engineering-msc

These programmes are seeking accreditation by the Institution of Mechanical Engineers (IMechE).
This programme aims to develop knowledge and skills in a range of engineering disciplines that underlie the design and operation of building services. Students will acquire a sound knowledge of engineering principles and the ability to apply this knowledge to complex situations within the Building Services industry. There are seven core modules covering the technologies and fundamentals of building services engineering, its design and management. The dissertation may be carried out on any approved topic related to the Building Services industry.

1 year full-time, 3-5 years distance learning.

This course is accredited by the Institution of Mechanical Engineers and the Chartered Institution of Building Services Engineers. We will be seeking reaccreditation from the Energy Institute for 2015 onwards.

BUILDING SERVICES ENGINEERING MANAGEMENT MSc

This course is particularly aimed at professional engineers who are carrying increasing management responsibility perhaps in a senior role, or who are aspiring to assume increased management responsibility as part of their future career in the Building Services sector. The course combines four engineering modules (including a choice between Energy Conversion Technologies and Renewable Energy Technologies) and four management modules, which are tailored to issues encountered by engineers in consulting, contracting and estate management. The dissertation provides the opportunity for students to research one of a wide range of topics relevant to their engineering business interests.

3-5 years distance learning.

This course is currently accredited by the IMechE and the Chartered Institution of Building Services Engineers. We will be seeking reaccreditation from the Energy Institute for 2015 onwards.

RENEWABLE ENERGY ENGINEERING MSc

The aim of this MSc is to give graduates the skills needed for demanding employment and cultivate qualified and skilled professionals with specialist knowledge in the renewable energy sector. The programme comprises eight core modules covering the detailed introduction of renewable energy technologies, related fundamentals, energy management and economic impact. The dissertation may be carried out on any approved topic related to the renewable energy industry.

1 year full-time or 3-5 years distance learning.

This course is awaiting the outcome of an accreditation submission to the Institution of Mechanical Engineers.
**STRUCTURAL INTEGRITY MSc**

This new MSc focuses on the technical knowledge and skills relevant to developing a career in technical and engineering roles where understanding and achieving structural integrity is key. The course aims to create a synergy of relevant knowledge from the fields of materials, structural analysis and non-destructive testing and inspection. Major users include the oil and gas, power generation, petrochemical, nuclear and transportation sectors. The objective is to produce high quality engineers with an in-depth knowledge of the science and technology of structural integrity, materials degradation, asset ageing and inspection. The underpinning theory and principles of these disciplines will be covered in a set of eight taught modules. Application of theory will be consolidated during a research project.

1 year full-time.

[www.brunel.ac.uk/courses/postgraduate/structural-integrity-msc](http://www.brunel.ac.uk/courses/postgraduate/structural-integrity-msc)

---

**SUSTAINABLE ENERGY: TECHNOLOGIES AND MANAGEMENT MSc**

The focus of this MSc is to train graduates who can develop and manage effective, appropriate and sustainable energy implementation actions in an industrial, business or government environment. It will develop the academic knowledge and cross-disciplinary links required for working in energy management, the energy technology industry and research. Modules cover a range of subjects from sustainable energy development to financial energy management, giving students a deep understanding of issues affecting energy engineering in the context of sustainability as well as teaching the practical skills necessary for running projects. Research activities of teaching staff fall within the Centre for Energy and Built Environment Research (CEBER) and directly feed the development of the course. Links to industry, energy institutions and pioneers in energy technology are a key part of the programme, and guest speakers from various professional sectors contribute to the course.

1 year full-time.

[www.brunel.ac.uk/courses/postgraduate/sustainable-energy-technologies-and-management-msc](http://www.brunel.ac.uk/courses/postgraduate/sustainable-energy-technologies-and-management-msc)

This course is accredited by the IMechE and the Chartered Institution of Building Services Engineers. We will be seeking reaccreditation from the Energy Institute for 2015 onwards.

---

**YOU MIGHT ALSO LIKE...**

- MRes in Bioengineering ........................................ page 42
- Project and Infrastructure Management MSc........................................ page 50
The Music team at Brunel includes some of the leading figures in European contemporary music, ranging from composers Jennifer Walshe, Christopher Fox, John Croft and Colin Riley to the performer Sarah Nicolls, and from musicologist Nicholas Attfield to improvisation innovator Peter Wiegold and sonic artists Harald Muenz and Carl Faia.

Our Master’s course is career-oriented, focusing on current professional practice, and is based in the Gaskell and Antonin Artaud Buildings, which offer concert and rehearsal spaces and recording studios. Located in the west of London, students have easy access to the capital’s vibrant arts scene.
EXPERIMENTAL MUSIC MA/MMus

This is the first Master’s course in the UK to focus specifically on Experimental Music. It encourages you to foster an advanced creative and critical engagement with issues in contemporary music practice whilst building the skills and knowledge necessary for employment in the music industry as performers, composers, improvisers and/or commentators.

The majority of your contact time with tutors will be through one-to-one tutorials where you will be guided through your work from inception to completion. Through presentations, seminars and critical discussions you are encouraged to develop your communication and problem-solving abilities. Students whose final project is a dissertation will be awarded an MA; students whose final project is practice-based will be awarded an MMus.

1 year full-time 1.5 days per week.
2 years part-time, 0.75 days per week.

www.brunel.ac.uk/courses/postgraduate/experimental-music-mammus

PROFESSOR CHRISTOPHER FOX

Christopher Fox is a composer, teacher and writer of new music; he joined Brunel as a professor in music in April 2006. His work has been performed and broadcast world-wide and has featured in many of the leading new music festivals, from the Amsterdam PROMS to the BBC Promenade Concerts and from St Petersburg to Sidney. He has worked with many of the world’s leading new music ensembles and soloists, establishing particularly close relationships with the experimental music ensemble Apartment House in the UK, the Ives Ensemble in the Netherlands, and the vocal groups The Clerks and EXAUDI. Fox’s music is widely available on CD, with six portrait CDs on the Metier label, a portrait CD on the NMC label, and other recordings on Artifact, BVHaast, FMR, HatHut, Metier and NMC. He has been hailed by The Wire as “a tantalising figure in British Music” and the Sunday Times has described his music as “impressive, thoughtful, entertaining and extremely varied”.

www.brunel.ac.uk/courses/pg
OCCUPATIONAL THERAPY

Occupational Therapy courses at Brunel are designed and taught by expert staff who are nationally and internationally recognised. They use their research and clinical expertise to ensure that the courses provided are evidence-based and linked to current practice. Students benefit from a large, well qualified staff group, studying with students from a wide variety of backgrounds and state-of-the-art facilities.

OCCUPATIONAL THERAPY (PRE-REGISTRATION) MSc

This MSc aims to provide a Master’s level route for graduates to become competent occupational therapists, eligible to apply for registration with the Health and Care Professions Council, and membership of the British Association of Occupational Therapists/College of Occupational Therapists. Graduates are equipped for lifelong safe and effective practice within the global marketplace. The course differs from other Master’s programmes in that it is a professional programme at postgraduate level and is full-time. It is not intended for those who are already qualified Occupational Therapists.

2 years full-time (90 weeks), 4-5 days per week in Year 1; 2-3 days per week in Year 2.
Currently 4 placements take place during this 2 year period – attendance full-time.

www.brunel.ac.uk/courses/postgraduate/occupational-therapy-pre-registration-msc

OCCUPATIONAL THERAPY MSc

This course is aimed at Occupational Therapists who wish to continue their professional development, gain the skills to evaluate their interventions, build professional confidence and seek out (as well as develop) existing theories to inform evidence-based practice. Brunel has one of the largest and most highly qualified occupational therapy staff groups in the world, and they will help students to gain greater mastery in their chosen area of occupational therapy. The programme has been praised by university validating committees as a model Master’s degree for professional practitioners, as it brings theory to the workplace.

1 year full-time, 2 days per week; 3 years part-time, 1 day per week in Years 1 and 2; Year 3 is devoted to the dissertation.

www.brunel.ac.uk/courses/postgraduate/occupational-therapy-msc
The majority of the Physiotherapy team at Brunel are Registered Physiotherapists and many continue to practice in the clinical environment as well as lecturing at Brunel, ensuring that the teaching of clinical skills is in line with current practice and underpinned by the most recent evidence. The team is involved in a wide variety of research and the development of a number of national clinical guidelines. The division benefits from excellent teaching and research facilities.

**NEUROREHABILITATION MSc**

This advanced academic course is designed for new graduates as well as professional practitioners (for example in occupational therapy, physiotherapy, and other rehabilitation sciences, and professions allied to medicine) who have a special interest in neurorehabilitation. The course will not further clinical skills nor will it lead to registration from the UK professional governing bodies, but rather it focuses on developing the practitioner’s ability to conduct and evaluate neurorehabilitation research. It offers the opportunity to acquire advanced theoretical knowledge, a deeper understanding of research and the ability to critically appraise scientific literature.

1 year full-time, 2 days per week. 3 years
part-time, 1 day per week in Years 1 and 2; Year 3 is devoted to the dissertation.

[www.brunel.ac.uk/courses/postgraduate/neurorehabilitation-msc](http://www.brunel.ac.uk/courses/postgraduate/neurorehabilitation-msc)

**PHYSIOTHERAPY (PRE-REGISTRATION) MSc**

This MSc provides a route for graduates to become competent physiotherapists, eligible to apply for registration with the Health Professions Council. The programme aims to prepare students for professional autonomy and excellence in clinical practice. It provides a strong scientific foundation and encourages the development of excellent practical and clinical reasoning skills – essential for the safe and effective treatment of patients. The programme provides the opportunity to critically evaluate the effectiveness of treatments – a skill which is vital to continuing evidence-based practice. A sound working knowledge of research methodology provides the tools necessary for the completion of a research dissertation. The course differs from other Master’s programmes in that it is a professional programme at postgraduate level, and is full-time. It is not intended for those who are already qualified physiotherapists.

2 years full-time, 5 days per week in Year 1; blocks of 5 days per week in Year 2. 5 placements of 6 weeks full-time in Year 2.

[www.brunel.ac.uk/courses/postgraduate/physiotherapy-msc-pre-registration-programme](http://www.brunel.ac.uk/courses/postgraduate/physiotherapy-msc-pre-registration-programme)

Member of the Health Professions Council.

**YOU MIGHT ALSO LIKE...**

Medical Anthropology MSc....................................... page 41
Politics and History is a well-established, leading department, which regularly scores highly for research and teaching excellence. We are a large department offering a wide range of expertise. We offer unique postgraduate programmes taught by world renowned experts in politics, international relations, public policy, political theory and world history.

GLOBALISATION AND GOVERNANCE MA

The term ‘globalisation’ embraces a range of deeply transformative political, economic and social processes. Understanding these as well as the meaning, significance and implications of globalisation presents major theoretical and practical challenges for those working or intending to work in the realms of government, business, civil society or academia. This MA equips students to understand globalisation and to think in an informed manner about questions of its ‘governance’: that is, how globalisation might be steered or developed in a politically and ethically satisfactory manner. Students graduating from this programme will have knowledge and understanding not only of the key debates and perspectives upon globalisation, governance and international relations, but also of the different sectors of the emerging global political system: namely the state and other public authorities, business and institutions of global capital, and civil society and international non-governmental organisations.

1 year full-time, 4 days per week depending on chosen modules. 2-2.5 years part-time, up to 2 days per week.

www.brunel.ac.uk/courses/postgraduate/globalisation-and-governance-ma

SPECIAL FEATURES

• You will have the opportunity to network with government, industry and international organisations

• We launched Britain’s first multi-disciplinary research centre on intelligence and security studies
POLITICS AND HISTORY

WWW.BRUNEL.AC.UK

INTELLIGENCE AND SECURITY STUDIES MA

Intelligence and security policy issues are now one of the fastest growing areas of academic and public concern, especially since 9/11 and the wars in Iraq and Afghanistan. More than ever before, governments, international agencies and major international corporations have an identified need for staff with a strong grasp of intelligence and security issues, who can also demonstrate first-rate skills of research and assessment.

Taught by internationally respected scholars from the Brunel Centre for Intelligence and Security Studies (BCISS), backed up where required by practitioner expertise, the MA offers a unique opportunity for practical, policy-oriented study of intelligence issues applicable across the private and public sectors around the world.

1 year full-time, 2 days per week.
2-2.5 years part-time, 1 day per week.

This course is also available via Distance Learning.

www.brunel.ac.uk/courses/postgraduate/intelligence-and-security-studies-ma

INTERNATIONAL RELATIONS MA

The ability to analyse the complex issues presented by international relations is increasingly important for understanding the forces and events that shape our lives and in a wide range of careers. As an academic subject, this field has expanded beyond its original concern with relations between states and the study of war and international organisation, to cover topics such as globalisation, security, international theory, human rights, and the politics of specific geographical regions. This MA develops knowledge and provides the opportunity to study topics across its key sub-fields.

1 year full-time, 4 days per week depending on chosen modules. 2-2.5 years part-time, up to 2 days per week.

www.brunel.ac.uk/courses/postgraduate/international-relations-ma
MILITARY HISTORY MA

This course offers an in-depth study of warfare across a range of periods and continents. Core modules will look at the Royal Navy in the twentieth century, warfare in ancient and medieval times and the impact of the French and Industrial Revolutions on warfare in the age of ‘total war’. Optional modules will include the chance to study the Second World War and/or warfare in modern Africa. The programme also draws on Brunel’s expertise in intelligence studies, offering students the chance to take optional modules in this area.

1 year full-time, 2 years part-time.

www.brunel.ac.uk/courses/postgraduate/military-history-ma

MODERN WORLD HISTORY MA

This MA is the only one of its kind in the UK to be endorsed and promoted by the internationally recognised World History Association. It examines the transnational influences, connections and conflicts that intersect in world history, and seeks to foster a holistic approach to historical problems that have had cross-cultural effects on people in many parts of the globe. This means that world history is discussed alongside the combined elements of political, economic, social, cultural, demographic and intellectual history, and these historical underpinnings of world history will be presented in an interdisciplinary manner. Among the historians at Brunel are experts on the history of the US, the Caribbean, Australia, Russia and the UK.

1 year full-time, 4 days per week depending on chosen modules.

2-2.5 years part-time, up to 2 days per week.

www.brunel.ac.uk/courses/postgraduate/modern-world-history-ma

This course is endorsed and promoted by the World History Association.
PUBLIC AFFAIRS AND LOBBYING MSc

Public affairs, lobbying and political consultancy are attractive areas for many graduates. Careers in this field are either in dedicated departments within large companies and charities or, more commonly, within specialist consultancy firms. This MSc will provide both academic and practical training to assist students in pursuing a career in these exciting professions. Designed in conjunction with leading Public Affairs companies, the programme includes an integrated internship with a Public Affairs consultancy in either London or Brussels. The course offers a unique combination of advanced academic knowledge and practical experience, which will provide graduates with the opportunity to develop a career in public affairs.

1 year full-time (plus 3 month internship), 3-4 days per week.

2-2.5 years part-time (for applicants in the public affairs industry or with relevant experience), up to 3 days per week.

YOU MIGHT ALSO LIKE...

International Human Rights Law LLM........page 76
Anthropology of International Development and Humanitarian Assistance MSc........... page 40

SAM
MODERN WORLD HISTORY MA

“After completing my undergraduate degree in History I stayed on at Brunel to complete my postgraduate studies. Having had such a fantastic experience as an undergraduate, it was an easy decision. There were also plenty of opportunities to get involved in extra-curricular activities outside the classroom. In my second year I was elected President of the History Society. The society organised trips abroad, trips to cultural attractions in London, social events and much more, all of which complemented what you studied, and contributed to the collegiality of the Department. It provided the opportunity for academic staff and students to socialise and engage with one another.

Furthermore there are plenty of opportunities to work part-time to help fund your studies. Recently I have worked as a Research Assistant here at Brunel University and also at Birkbeck College (University of London). I would recommend Brunel University to anyone looking for both academic excellence and a vibrant campus experience.”
PSYCHOLOGY

Psychology at Brunel has an international reputation for research excellence, covering a range of topics and methodological approaches using multiple complementary levels of analysis. Our innovative postgraduate programmes taught by leading researchers cover a range of specialist areas including cognitive neuroscience, cross-cultural psychology, evolutionary psychology, health and behaviour and psychoanalysis.

CROSS-CULTURAL PSYCHOLOGY MSc

This course provides an understanding of how basic psychological processes may vary across cultures, and gives students the skills necessary to conduct their own research with different ethnic groups. It is aimed at those who intend to pursue psychological work in different cultural settings, whether within the UK or overseas. The course is taught by renowned international experts on culture and ethnicity, complemented by visiting speakers from around the world.

1 year full-time, 2 days per week.
2-2.5 years part-time, 1-2 days per week.

www.brunel.ac.uk/courses/postgraduate/cross-cultural-psychology-msc

EVOLUTIONARY PSYCHOLOGY MSc

This MSc provides an opportunity for advanced study in Evolutionary Psychology, ie psychological science informed by the fact that the human mind, like the human body, is a product of evolutionary processes. This course is suited to students in the life sciences or social sciences who are interested in finding out how principles from evolutionary biology can provide a framework for the scientific study of human psychology and behaviour.

1 year full-time, 2 days per week. 2-2.5 years part-time, 1 day per week.

www.brunel.ac.uk/courses/postgraduate/evolutionary-psychology-msc

FUNCTIONAL NEUROIMAGING MSc

Recent years have seen rapid development of functional imaging technology, with increasing availability worldwide of high resolution scanners for research and clinical applications. Functional brain imaging requires an understanding of current concepts in cognitive neuroscience and psychology, as well as a basic appreciation of neuroimaging techniques and the mathematical and statistical foundations for data analysis. This programme, the first of its kind in the UK, provides a strong theoretical and practical introduction to the world of neuroimaging research. It is good preparation for a PhD, or for working as part of a neuroimaging team with fMRI or other imaging modalities.

1 year full-time, 2 days per week. 2-2.5 years part-time, 1 day per week.

www.brunel.ac.uk/courses/postgraduate/functional-neuroimaging-msc
PSYCHOLOGY, HEALTH AND BEHAVIOUR MSc

This MSc is aimed at people working in the health sector who wish to further their understanding of psychological aspects of health and illness, health professionals, international students and psychology graduates who wish to gain skills to help obtain a place on a Clinical Psychology Doctorate or further study at PhD level and graduates in related disciplines such as sociology and anthropology. The MSc teaches an understanding of the psychological aspects of health, illness beliefs and behaviours, and provides knowledge and skills for health research.

1 year full-time, 2 days per week.
2-2.5 years part-time, 1-2 days per week.

PSYCHOANALYSIS AND CONTEMPORARY SOCIETY MA

This MA provides training in classical and contemporary psychoanalytic theory. It maintains constant attention to the relation between theory and practice and provides a clinical grounding through its emphasis on the clinical writings of Freud, Klein and Lacan. It offers the chance to develop a psychoanalytic approach to contemporary socio-cultural issues, in particular questions of political ideology, social conflict and violence. Students can explore the relationship between the psychoanalytic and social fields. The course asks how we can provide a specifically psychoanalytic account of social relations and engages with issues raised by post-structuralist and feminist accounts of sexuality.

1 year full-time, 2 days per week.
2-2.5 years part-time, 1 day per week.

PSYCHOLOGICAL SCIENCES MSc

This course is approved in principle. This course (under review for BPS accreditation) will appeal to students whose first degrees did not come from BPS-accredited Psychology undergraduate programmes eg students from natural or social sciences who wish to change their career direction. Typical modules may include: Conceptual and Historical Issues in Psychology; Statistics and Research Methods; Biological Psychology; Cognitive Psychology; Developmental Psychology; Individual Differences; and Social Psychology. Graduates will have a critical understanding of key issues in core areas of psychology, together with proficiency in analytical skills that will enable them to pursue various psychology-related careers.

1 year full-time, 2-3 days per week.
2-2.5 years part-time, 1-2 days per week.

YOU MIGHT ALSO LIKE...

Psychological and Psychiatric Anthropology MSc ............... page 41
Public Health and Health Promotion MSc ........................page 71
Medical Anthropology MSc..................................... page 41
Sport and Exercise Psychology MSc
( BPS accredited)...................................................... page 96
The Social Work division at Brunel, which incorporates Human Geography and Youth and Community Work, is one of the largest and most vibrant in London and recruits about 130 students each year. We have an excellent academic record and reputation, and are currently ranked number one Social Work division in London (Guardian, 2013). Through programme partnership, the division maintains close links with social service and voluntary organisations and our enthusiastic staff group represents a wide range of practice and academic experience.
CHILDREN, YOUTH AND INTERNATIONAL DEVELOPMENT MA

This programme caters for those working, or interested in working, in the field of children, youth and international development. The course equips students with the conceptual understanding and breadth of empirical knowledge required to critically evaluate policy and practice. It also provides the skills necessary to design and undertake research in this area. The programme includes core modules on international development as it affects children and youth, young lives in the global South, young people’s rights and participation, and research methods. Students may also take options from youth work, anthropology or a placement module.

1 year full-time, minimum 2 days per week.

www.brunel.ac.uk/courses/postgraduate/children-youth-international-development-ma

SOCIAL WORK MA

This social work training programme aims to educate and train individuals to be reflective, research-minded practitioners who are able to work critically and professionally and in accordance with the principle of anti-discriminatory practice. Graduates who successfully complete this programme are eligible to apply for Health and Care Professions Council (HCPC) registration.

The professional and academic elements are closely integrated throughout the programme. There are 170 placement days, with the working week divided between time in placement and time in the University.

2 years full-time.

www.brunel.ac.uk/courses/postgraduate/social-work-ma

Accredited by Health and Care Professions Council.

SOCIAL WORK (PGCert) POST-QUALIFYING FRAMEWORK

The aim of this programme is to develop confident, well-rounded practitioners working in inter-professional and inter-agency contexts. Students will demonstrate competence in a range of key areas including: direct work with service users, families and carers; self-management and use of supervision; mentoring and practice education.

As practitioners you will also develop a range of in-depth knowledge and skills associated with a particular area of specialist social work practice.

Minimum 18 months.

www.brunel.ac.uk/courses/postgraduate/social-work-pgcert-post-qualifying-framework

YOU MIGHT ALSO LIKE...

Anthropology of Childhood, Youth and Education MSc .................... page 40
Sociology and Communication studies brings together experts who understand social, economic and political forces with specialists in communication. We offer courses in topics such as globalization, new media, cultural industries, popular music, mediated comedy, the city, multiculturalism, health and illness, crime and deviance, work and social movements. Our innovative postgraduate programmes contribute to our international reputation as a centre for teaching and research excellence. Our MSc programmes attract students from all over the world who are welcomed into our stimulating and friendly Department.

**SPECIAL FEATURES**

- Our academics have received research funding from a variety of bodies including the EU, the Economic and Social Research Council, the Arts and Humanities Research Council, the Medical Research Council and the Department of Health

- We have an international research reputation with particular expertise in media and communications, the sociology of health and illness and popular culture
MEDIA AND COMMUNICATIONS MSc

This course offers students an interdisciplinary approach to the study of new media and communications practices. It focuses on a critical understanding of the rapid changes in media and communications, and their social and cultural consequences within an international context. Students have the opportunity to meet professionals working in the broadcasting, advertising and marketing industries and to take part in field trips, for example to the BBC Television Centre. We also provide additional support with career counselling and personal development workshops.

The course combines theoretical and empirical study of the media, including issues of media audiences together with the study of developments in information and communication technologies. Assessments include essays, reports, blogs and wikis. Students typically go on to do academic research or pursue careers within the media industries, for example as a Communications Officer or Head of Information.

1 year full-time, 2 days per week.

www.brunel.ac.uk/courses/postgraduate/media-and-communications-msc

SOCIAL AND CULTURAL RESEARCH MSc

The aim of this degree is to provide a strong theoretical and practical introduction to the world of sociological, social and cultural research. Students will be exposed to a range of general academic research skills and expertise expected of the professional researcher in the social sciences.

The degree is a valuable preparation and qualification for a career in social research. It is also an excellent primer for those candidates planning to undertake a PhD in Sociology, Cultural Studies and cognate disciplines.

1 year full-time, 2 days per week.
2-2.5 years part-time, 1-2 days per week.

www.brunel.ac.uk/courses/postgraduate/social-and-cultural-research-msc

YOU MIGHT ALSO LIKE...

Media and Public Relations MA ................., page 68
Ageing Studies PGCert/PGDiploma/MSc, page 70
Public Health and Health Promotion MSc ..,page 71
SPORT, HEALTH AND EXERCISE SCIENCES

Our staff have international reputations for their research and consultancy. Many are experienced practitioners, either sport and exercise scientists accredited by the British Association of Sport and Exercise Sciences (BASES) or sport and exercise psychologists accredited by the British Psychological Society (BPS) and Health and Care Professions Council (HCPC). As well as state-of-the-art sports and laboratory facilities, students benefit from excellent teaching and supervision by staff who are publishing high impact research.

SPORT AND EXERCISE PSYCHOLOGY MSc (BPS ACCREDITED)

This MSc is aimed at students who have completed a British Psychological Society (BPS) accredited undergraduate degree in psychology, who wish to specialise in sport and exercise psychology either as researchers or practitioners. The course provides a programme of study that is consistent with the BPS accreditation criteria and which prepares students for Stage 2 of training to become a sport and exercise psychologist.

Full-time or part-time, normally Tuesday and Thursday.

www.brunel.ac.uk/courses/postgraduate/sport-and-exercise-psychology-msc

Accredited by the BPS.

SPORT, HEALTH AND EXERCISE SCIENCES MSc

This MSc offers the choice of two specialist pathways or a broad-based course combining modules from the two pathways:

- **Human Performance** focuses on the physiological and biomechanical elements of the human performer, providing a grounding in the lab techniques used by physiologists and biomechanics. It serves as ideal preparation for those wishing to pursue accreditation as a Sport Scientist through the British Association of Sport and Exercise Sciences (BASES)

- **Sport Psychology** runs in parallel with our BPS-accredited course and focuses on the application of psychology in the sport and exercise domain. The course is aimed at students with a background in Sport Sciences who wish to specialise in Sport and Exercise Psychology, potentially pursuing a career in research or as a sport scientist accredited by the British Association of Sport and Exercise Sciences (BASES)

One year full-time, 2 days per week.
2.5 years part-time, 1-2 days per week.

www.brunel.ac.uk/courses/postgraduate/sport-sciences-msc

NICOLA HOBBS
SPORT AND EXERCISE PSYCHOLOGY MSc

“I chose Brunel because of the expertise of staff. The course has given me a brilliant grounding and has opened my eyes to how I can integrate my own passions with academic research. The sporting opportunities at Brunel were another reason I chose to study here. In order to understand the pressures faced by the athletes I will be working with, and to challenge myself, I joined Brunel’s Olympic Weightlifting club. Thanks to amazing coaching and great training facilities, I have become English Champion. For my research project I wanted to combine my love of sport with my job as a Yoga Teacher and volunteer work in mental health, so I researched the role of sport and exercise in post-traumatic growth and overcoming adversity. I hope to develop holistic mind-body healing programmes, incorporating psychology with sport and yoga.”
THEATRE

All our members of staff are internationally active as artists and/or theorists, and some are world-renowned pioneers in their field. The Antonin Artaud complex houses a fully equipped main theatre and studio theatre as well as a suite of rehearsal and recording studios.

There is also a workshop/electronics lab where students can build their own performance artefacts with expert support from our team of professional theatre technicians. In addition to a wide range of professional lighting, sound and projection equipment, the programme features a set of unique plug-and-play sensor toolkits developed by Dani Ploeger. These user-friendly toolkits enable students to experiment with a wide range of interactive performance setups, regardless of their level of technical experience.

Located in the west of London, students have easy access to the vast range of performance activity in the city. London also features numerous venues where students find opportunities to show their own work.

CONTEMPORARY PERFORMANCE MAKING MA

This MA allows students the space to nurture their creativity through the practical and critical exploration of contemporary performance. It aims to provide a bridge between academia and the professional world, giving students the opportunity to network and engage in a variety of supervised and self-managed projects. It offers specialisation in directing, solo performance, digital performance and performance writing and the opportunity for professional work placements. Staff members and guest artists have national and international reputations in contemporary performance. Students benefit from opportunities to showcase their pieces in a professional atmosphere, helping to launch their entry into the professional arena.

1 year full-time, 2-3 days per week.
2 years part-time, 1-3 days per week.

www.brunel.ac.uk/courses/postgraduate/contemporary-performance-making-ma

YOU MIGHT ALSO LIKE...

Creative Writing MA........................................ page 54
RESEARCH OPPORTUNITIES BY SUBJECT AREA

Acoustic Waves and Allied Technologies ................................................................. 100
Advanced Manufacturing and Enterprise Engineering ........................................ 101
Advanced Solidification Technology .................................................................. 102
Anthropology ......................................................................................................... 103
Bioengineering ....................................................................................................... 104
Biosciences ............................................................................................................ 105
Business .................................................................................................................. 106
Civil Engineering ................................................................................................... 107
Computer Science .................................................................................................. 108
Creative Writing ..................................................................................................... 109
Design ..................................................................................................................... 110
Economics and Finance ......................................................................................... 111
Education ............................................................................................................... 112
Electronic and Computer Engineering ............................................................... 113
English .................................................................................................................... 114
Environment ........................................................................................................... 115
Film and TV ........................................................................................................... 116
Games Design ........................................................................................................ 117
Health Economics .................................................................................................. 118
Health Studies ........................................................................................................ 119
Journalism ............................................................................................................... 120
Law .......................................................................................................................... 121
Materials Characterisation and Analysis ............................................................. 122
Materials Processing ............................................................................................. 123
Mathematics ........................................................................................................... 124
Mechanical/Aerospace Engineering .................................................................... 125
Music ....................................................................................................................... 126
Occupational Therapy ........................................................................................... 127
Physiotherapy ......................................................................................................... 128
Politics and History ............................................................................................... 129
Psychology ............................................................................................................. 130
Social Work ............................................................................................................ 131
Sociology and Communications .......................................................................... 132
Sport, Health and Exercise Sciences .................................................................... 133
Theatre .................................................................................................................... 134
ACOUSTIC WAVES AND ALLIED TECHNOLOGIES

The Brunel Innovation Centre (BIC) focuses on acoustic wave and allied technologies covering a range of materials, sensors, electronics and software systems. The team is well known for the development of ultrasound wave theory, experimental methods, and modelling techniques.

The motivation is to solve problems in industrial inspection and monitoring by conducting thorough scientific research. BIC covers a whole range of activity from fundamental scientific studies through to the transfer of technology to industry and has an outstanding international reputation.

RESEARCH AREAS

- Automation and robotics of inspection systems
- Electronics
- Image processing
- Sensors (piezoelectric, electromagnetic)
- Signal processing

Applicable to industries including:

- Aerospace and aeronautics
- Infrastructure (roads, bridges)
- Oil and gas
- Power generation (fossil, nuclear, renewables – wind turbines, tidal generators, wave systems)
- Surface transport (rail, ships)

CURRENT RESEARCH

Professor Tat-Hean Gan, Director

Tat-Hean Gan has over a decade of experience in Non-Destructive Testing (NDT), Structural Health Monitoring (SHM) and Condition Monitoring of rotating machineries in various industries.

ENQUIRIES

bic@brunel.ac.uk
+44 (0)1895 266897
The Advanced Manufacturing and Enterprise Engineering (AMEE) research group represents an integrated, innovative engineering discipline, and specialises in advanced manufacturing technology, enterprise engineering and engineering management.

Facilities include the Advanced Manufacturing Technology Laboratory, the Enterprise Engineering and Systems Laboratory and the CAD/CAM Laboratory. Current research interests are focused on development of high precision machine tools, smart tooling, micro manufacturing, nano/micro cutting mechanics, 3D surfaces and characterization, sustainable manufacturing and systems, smart manufacturing, digital manufacturing and enterprise technologies, RFID enabled manufacturing systems, supply chains management, innovation and technology management, CAD/CAM/CAE, manufacturing metrology, condition monitoring, services engineering, global manufacturing and systems, enterprise modelling and simulation, and e-manufacturing.

RESEARCH AREAS
- Design of high precision machine tools
- Sustainable manufacturing and systems
- Condition monitoring & control
- Digital enterprise technology
- e-Manufacturing
- Smart tooling and smart manufacturing
- Technology and innovation management
- Micro/nano manufacturing
- Nano positioning and manipulation
- Nano/micro metrology
- Supply chains management
- Systems modelling and simulation
- Micro ECM and EDM

CURRENT PROJECTS
The Advanced Manufacturing and Enterprise Engineering (AMEE) research group is currently working on a number of research projects funded by the EU 7th Framework Programs Technology Strategy Board, EPSRC, KTP Programs, Royal Academy of Engineering, and industry. There are currently over 50 PhD students studying with AMEE.

ENQUIRIES
www.brunel.ac.uk/contact-admissions

JURRIATH (ANGELA) AZMATHI MUMITH
“Being a PhD student in Engineering and Design at Brunel gives you a lot of opportunities. We are bombarded with courses and training opportunities to help us to carry out our research from general transferable skills to training in specific software.

Another thing I really love is that we get the opportunity to present our research at international forums and conferences and this gives us an opportunity to mingle with the experts in our field and be a part of the international academic community.”
The Brunel Centre for Advanced Solidification Technology (BCAST) provides novel solutions for a sustainable metals industry, conducting research to generate world-class knowledge in solidification science. BCAST aims to be an international leader in liquid metal engineering to underpin and strengthen solidification research, strategic technology developments and user-led industrial applications.

The Centre is the leading partner in multi-million EPSRC LiME (liquid metal engineering) and LCV (low-carbon vehicle) programmes and in a number of UK and European research projects. BCAST welcomes collaboration with academics or industrial companies, and is always interested in recruiting PhD students.

**RESEARCH AREAS**

- Nucleation-based solidification research including the structure of liquid metal, mechanisms of heterogeneous nucleation and the generic approach for enhancing and controlling nucleation through both physical and chemical methods
- Innovative generic technologies for nucleation control including techniques for liquid metal treatment, techniques for enhancing nucleation on both endogenous and exogenous solid particles through both physical and chemical methods, and applications of developed techniques for nucleation control to the existing shape casting and continuous casting processes
- Proprietary applied research with individual industrial partners to exploit fundamental research and generic technological development to support the metal casting industry in implementing innovative processing technologies and new products

**CURRENT PROJECTS**

Projects cover a wide selection of topics from intensive shearing and direct chill (DC) casting to recycling and Molecular Dynamic Simulations of interfacial monolayers.

**ENQUIRIES**

bcast@brunel.ac.uk
+44 (0)1895 266413

UTSAVI JOSHI

“I am investigating novel methods to improve the grain structure of magnesium alloys.”
ANTHROPOLOGY

Brunel Anthropology is rated as a centre for international research excellence and has a distinctive profile in British anthropology.

Our expertise includes innovative projects throughout South and Southeast Asia, Melanesia, central America, Africa, Europe and Britain. Brunel anthropologists carry out ground-breaking research in medical anthropology and the anthropology of childhood, youth and education. PhD students are an integral part of our vibrant research community. Students benefit from a unique multidisciplinary Master Class programme offering training in a range of methods and skills used in Anthropology and throughout the Social Sciences.

Our current research spans the globe and engages with a range of contemporary topics such as political violence, nationalism, the politics of development, post-colonial studies, disability, biography, emotion, food and global health. Our staff and students are members of the research centres listed below.

RESEARCH AREAS AND CENTRES

- Centre for Anthropological Research on Childhood, Youth and Education (CARCYE)
- Centre for Research in International Medical Anthropology (CRIMA)
- Histories and Concepts of Anthropological Knowledge (HCAK)
- Performance, Politics, and Violence (PPV)

CURRENT PROJECTS

Will Rollason's research on Urban Development, Youth and the Future in Kigali, Rwanda, suggests that youth development in the motorcycle taxi sector in Kigali is mainly driven by informal economic arrangements between young men, many of them migrants without advanced education or promising backgrounds, and local entrepreneurs who invest in the young men’s futures. In the context of Rwanda’s drive to economic formalisation, the success of the sector and the social systems underpinning it have remained largely unrecognised, and in many cases are threatened by government and other programmes.

Other current research projects include: Anthropology and Emotion; Education, Childhood and Social Mobility in India; HIV/AIDS in South Africa; Disability and Ethnographic Biography; Orangutan Conservation in Borneo; and Violence and Memory in Chios, Greece.

ENQUIRIES

Write directly to an individual member of staff in the first instance, outlining your research proposal and giving an indication of your qualifications:

www.brunel.ac.uk/cbass/social-sciences-media-communications/anthropology/staff

TANYEL OKTAR

“As part of my research, I am familiarizing myself with the issues related to deafness, the history of deaf education, deaf marriage and occupations of deaf people in England, the development of British Sign Language and its link to the British Deaf community. I aim to reflect upon this ‘deaf experience’ as a means to understand the issues affecting deaf people living in England today as well as a point of reference and comparison to the lives of deaf people in Cyprus and possibly Turkey.

After my PhD, I would like to continue to do anthropological research around the world on issues directly related to deafness or other broader anthropological phenomena. While my passion to contribute to anthropological literature and theory is strong, I also do not want to ‘detach’ myself from the practice of working and interacting with people, and thus will be in search of career opportunities that allow this delicate balance.”
Brunel Institute for Bioengineering (BIB) has developed over the last 30 years into a Specialist Research Centre providing new solutions for healthcare and health delivery.

The team of multi-disciplinary engineers, scientists, clinicians and biologists produces innovative, leading edge solutions in practice for health, medicine and surgery. Smart tools for surgery, smart bio-sensing systems, cardiovascular devices modelling, respiratory functions, bio-processing and technology for quality life-long living has produced pragmatic and cost efficient solutions in practice. Many are demonstrated as innovative prototype devices and are followed through to practice by working with industrial partners.

The research within BIB is world leading, and the Advanced Bioprocessing Centre in BIB takes small-scale, analytical methods for purifying pharmaceuticals, proteins, cells and other mixtures and turns them into large-scale processes suitable for production.

Staff members are committed to providing excellent training to researchers and professionals. Students will conduct their research at Brunel, and some research can be conducted in practice or with associated companies. BIB is affiliated with clinical partners; international hospitals, national and private, and has a close working relationship with companies on a world-wide basis who also participate in the research.

Irrespective of their setting, all new research students will enjoy the embracing and nurturing environment of BIB’s staff and student body, and will feel part of the research team.

**RESEARCH AREAS**

- Devices – surgical tools, implantable devices and sensing systems
- Modelling and simulation – used to interpret diagnosis data, predict bioprocesses, judge impact of therapies and optimise design of medical devices and tools
- Continuous flow processing – downstream processing, liquid-liquid dynamic extraction technology, separation and purification techniques and associated instrument design/operation, linking upstream and downstream processes, modelling and method development
- Assistive technology – the design of products integrating relevant new technology that focus on the needs of users to improve their quality of life

**ENQUIRIES**

bibadmin@brunel.ac.uk
+44 (0)1895 266927

You might also like our Bioengineering MRes on page 42.
The Biosciences research centres focus on health and disease mechanisms.

Biosciences academics are making major advances in areas such as: understanding natural as well as accelerated ageing, as in progeria; human diseases including breast, prostate and skin cancer, leukaemia and irradiation-induced abnormalities; neurodegenerative diseases and infectious diseases such as tuberculosis, malaria, aspergillus and viral infections. Researchers are involved in the development of treatments for disease including novel vaccines, stem cell, gene and antibody therapies, novel drug development and artificial biomaterials. Biosciences laboratories have a wide range of state-of-the-art facilities, equipment and expertise, and PhD applicants can apply for a pre-defined project or propose their own research topic.

RESEARCH AREAS

- Centre for Cell and Chromosome Biology (CCCB) – this Centre specialises in research areas such as ageing and premature ageing, bone production, early embryonic development, steroid hormonal response in reproductive tissue, stem cell biology, chromosome rearrangement after irradiation and in cancer, cellular response to parasitic infection, trinucleotide repeat disorders, cellular signalling pathways, fundamental processes such as transcription and cell culture methodologies and fluorescence in situ hybridisation (FISH) technologies
- Centre for Infection, Immunity and Disease Mechanisms (CIIDM) – researchers in this Centre concentrate on the host-pathogen interaction aspects via comparative genomics, microarray, bioinformatics, biomarkers and host susceptibility factors, iron metabolism in bacteria and mammals, immunobiology of the neuronal system, organogenesis, pregnancy and cancer
- Brunel Institute for Cancer Genetics and Pharmacogenomics (BICGP) – this Centre specialises in breast, prostate and lung cancer, malignant melanoma and leukemia, the role of telomeres in cancer and genome biology, novel tumour suppressor genes, molecular characterisation of the role of telomeres in DNA repair, alternative splicing of genes in cancer and the identification of novel T-cell mechanisms in human tumour immunology
- Centre for Systems and Synthetic Biology (CSSB) – this Centre is interdisciplinary with Information Systems and Computing. Areas of research include synthetic biology, epigenetics, systems biology infrastructure, exploitation of systems biology technologies, whole system and multi-scale modelling of behaviour and software systems and databases

CURRENT STAFF PROJECT

Professor Arturo Sala is Deputy Director of Brunel Institute for Cancer Genetics and Pharmacogenomics. He aims to understand the molecular causes of cancer and develop innovative therapeutic approaches. Professor Sala’s group is particularly interested in studying the role of specific oncogenes and tumour suppressor genes, such as MYC and CLUSTERIN, in cell proliferation and apoptosis in the context of cancer stem cells.

ENQUIRIES AND APPLICATIONS

biosciences@brunel.ac.uk

JESSICA PICKLES

“I am investigating the molecular events triggered by treatment of Syrian hamster embryo cells with genotoxic and nongenotoxic carcinogens. The aim of my project is to validate that morphological changes induced by treatment of these cells can be used as a reliable indicator for predicting the carcinogenicity of substances with potential for clinical applications. By studying these morphologically altered cells we can help explain the relationship between malignant transformation and cell immortalisation.”
Brunel Business School offers a productive and supportive environment for research. Doctoral students will be supervised while undertaking high level rigorous and original research, and will be invited to participate in the annual PhD Symposium and regular Research Seminars, and engage fully with their designated Research Centre.

Brunel offers an opportunity to undertake the PhD programme in Bahrain through a collaboration with Ahlia University as well as the option of the Brunel Integrated PhD.

RESEARCH AREAS AND CENTRES

• Accounting and Auditing Research Centre – corporate financial reporting, assurance and corporate governance, impact assessments of government policy on the accounting and auditing needs of SMEs and the effect of deregulation on users of their financial statements

• Centre for Research into Entrepreneurship, International Business and Innovation in Emerging Markets – strategy, SMEs and innovation, entrepreneurship and innovation in emerging markets and trade and knowledge exchanges with other countries

• Centre for Research in Marketing – corporate marketing, corporate identity, and corporate brand management, international marketing, B-B marketing, CSR/ethical marketing among others

• Information Systems Evaluation and Integration – multi-disciplinary research in Information Systems Evaluation, Enterprise Integration and eGovernment

• Operations and Supply Chain Systems Group – all aspects of Operations Management and Supply Chain Management and related areas

• Work and Organisation Research Centre – HRM, Performance at Work, Social Identity and Organisational Processes

CONTACT US

www.brunel.ac.uk/contact-admissions

SARA AHMED

“I received a scholarship from the Ministry of Higher Education of Saudi Arabia to study at Brunel. The supervision is excellent. I am doing my PhD on applicant reactions to selection procedures, investigating selection fairness within Internet-based selection procedures from applicants’ perspectives. I published my work in the International Journal of Selection and Assessment with my supervisors, who are always available to provide excellent guidance and support. I also presented my work at the British Psychological Society Division of Occupational Psychology (BPS-DOP) in 2012. My ambition is to work as a lecturer. I look forward to collaborating with academics from different disciplines. Brunel has all that I need – a unique environment, multicultural community, high quality teaching, excellent supervision and great location close to Heathrow Airport. Connections to central London are excellent.”

MARIO BURGHAUSEN

“My research developed a theory of corporate heritage stewardship and my study focused on Great Britain’s oldest brewery. I was the recipient of a Brunel Business Scholarship, enabling me to work with my supervisor Professor Balmer on a study relating to the broad corporate marketing domain.”
The Sustainable Civil Engineering Research Group (SusCERG) is a multidisciplinary research hub bringing together strengths in engineering and environmental sciences to address real life problems in a way that advances fundamental scientific knowledge and understanding and improves efficiency in industry and the built environment.

**RESEARCH AREAS**

- **Innovative Materials:** nanocellulose and engineering biocomposites, nano and graphene and nano aerogel materials and integrated composites, nano and natural insulation materials and systems, timber and reengineered timber products, ultra-functional and long life materials, textile and its composites, geopolymer and advanced cement-based materials, low carbon materials, microwave and micro processed materials, pavement materials, steel and composites

- **Advanced Structures:** structure testing and modelling and health monitoring and protection, earthquake engineering and seismic design, analysis of reinforced concrete components and structures, nonlinear structural mechanics, timber engineering, silo structures, pavement engineering, steel design and construction, connectors and connections, structural fire engineering and multi-scale computing

- **Geo-technical and Water Engineering:** site investigation, characteristics and stability of soils and sediments, coastal and floodplain, seismic impact on soil characteristics, mechanics of dissolution-impacted soils and rocks, surface water and wastewater generation and reuse, flood protection and alleviation, water supply and distribution network modelling and drainage collection systems

- **Procurement and Sustainable Construction:** sustainable procurement, risk and contract, health and safety, planning and control, change and claims, delay and disruption analysis and lean construction; lightweight construction, modern method construction (MMC) innovative construction design and codes and standards

- **Resources Efficiency and Sustainability:** waste management, waste treatment of huge mass structural materials, reuse and recycling of household, commercial, refurbishment and demolition wastes, usage of industry by-products such as PFA and GGBS and used tyres, performance in use and LCA

**CURRENT PROJECTS**

Two research centres within SusCERG, Brunel Research Institute for Sustainable Engineering (RISE) and European Centre of Excellence (Grow2Build), have a number of research projects on materials and composites from nano and graphene to micro and macro scales, innovative design, processing, fire engineering and product performance. On-going complex EU and UK government projects include: highly efficient production of aerogel insulation materials and their integrated composites and systems (ICECLAY); nanotechnology enhanced extruded fibre reinforced foam cement based environmentally friendly sandwich material for building applications (FIBCEM); utilisation of recovered wood and rubber for alternative composite products (WOODRUB); local cultivated hemp and flax as a resource for bio-based building materials (Grow2Build); low cost superior insulation materials for zero carbon building construction (VIP4ALL); and rubber fusion of wood plastic composites (RubWPC).

**CONTACT US**

[www.brunel.ac.uk/contact-admissions](http://www.brunel.ac.uk/contact-admissions)
The Computer Science department is home to a vibrant and talented community of students, researchers and academics who provide deep, practical insight into the development and use of computational techniques and technology for modern and complex environments.

Computer Science students on this excellent PhD research programme address complex and challenging issues, present work at international conferences and publish in high-quality journals. They will benefit from world-class supervision and dedicated facilities – every research student has access to office space and a computer. You can study for a traditional PhD full-time or part-time, or undertake the Brunel Integrated PhD (see page 30).

RESEARCH AREAS

- Centre for Intelligent Data Analysis (CIDA)
- Artificial Intelligence
- Biomedical Informatics, Systems and Synthetic Biology
- Critical Applications of the Twenty-first Century
- Digital Innovations
- Dynamics Signals and Time Series
- Visual Computing and Multimedia
- Centre for Software and Systems (CSS)
- Modelling and Simulation
- Social Informatics
- Organisational Informatics
- Software Engineering
- User Centred Design

MRS MOHSINA FERDOUS

“In collaboration with scientists at GSK, the primary objective of ‘Predicting chromatin status using differential expression profiles’ is to investigate intelligent data analysis methods for integrating, modelling and visualising large-scale high-throughput biological data and determining gene transcription signatures that are predictive of the underlying chromatin structure.”

CURRENT PROJECTS

Professor Hierons is developing methods that support automated software testing, with a focus on using multiple independent testers when testing distributed systems. The main motivation is that if we can use independent testers then we avoid the delays introduced by testers exchanging coordination messages; this makes testing cheaper and is sometimes necessary when there are timing constraints. His other research interests include the automated analysis of software, motivated by the desire to reveal faults at an early stage.

CONTACT US

www.brunel.ac.uk/contact-admissions
The Creative Writing PhD offers the opportunity to complete a substantial work in an exciting research environment in London with the benefit of the experienced supervision of tutors, all of whom are professional writers. It is an ideal progression from a Master’s degree, or for professional writers who wish to gain a doctorate in creative writing, or for those wishing to teach creative writing at university level.

Creative Writing research at Brunel can embrace creative practise, critical reflection and research into the educational and social impact of this discipline. Graduates are offered expert support in professional preparation for a literary career and are expected to establish a strong publication record. You will submit a thesis divided into creative and critical components that relate to each other – the essay can be either a commentary on process and practice, or an investigation into other fields of creative literature and critical/theoretical writing.

RESEARCH AREAS

- A wide range of literary ambition, from experimental fiction to genre writing
- Practice-based research, specifically proposals for novels, poetry, drama and imaginative non-fiction that demonstrate originality, a commitment to generic advance or reinvention and a high standard of artistic accomplishment
- The role of Creative Writing in education and in communities outside the university sector such as teaching in schools, literature as public art and the cultural industries

CONTACT US

www.brunel.ac.uk/contact-admissions

ROHAIL AHMAD

“It was important that I chose a university within commuting distance as I live in West London and only Brunel had exactly the course I wanted: a Master’s on how to write a novel. The course exceeded my expectations. I achieved a Distinction and jointly won the Curtis Brown Prize for my dissertation novella, The Dancing Girl of Lahore, which was also long-listed for the Paris Literary Prize. I continued on to a PhD in Creative Writing. The staff were very encouraging and I received excellent supervision. My PhD novel, Pure Mafia, is a contemporary novel about child labour. My novella and novel are currently under consideration by publishers.

In the second year of my PhD I was given the opportunity to teach undergraduates. I have now taught for two years and will continue to do so as a part-time lecturer. I was also given the opportunity to complete a course in higher education teaching, which led to a qualification of ‘Associate Fellow’ with the Higher Education Academy.”

LIESEL SCHWARZ

“My PhD is focused on 19th Century speculative literature and the influence it’s had on popular culture and modern genre writing. The skills I learned at Brunel have opened so many doors for me – I have found my way into the world of teaching writing.”
DESIGN

Design at Brunel is an interdisciplinary activity and our research approach seeks to integrate human, environmental and technological elements – combining human centred design investigation with technological or systems factors, enabled by design thinking and processes. The distinctiveness of Design at Brunel lies in its integrated and engineering approach.

Our staff covers a broad spectrum of disciplines including industrial (product) design, electrical and mechanical engineering, manufacturing and materials engineering, CAD/CAM, inclusive design, human-centred design, sustainable design, and design innovation management. Brunel Design has a well-established record of research excellence, with multidisciplinary, product related design research that is grounded on strong engineering design traditions.

Research is coordinated under the Brunel Design Research Centre. The thematic streams within the Centre are aligned with current environmental, societal and technological imperatives. The Design research vision is to be a leading provider of design research that responds to major societal issues and is at the forefront of new and emerging technologies and design practice.

RESEARCH AREAS

- Design and Human Wellbeing (through Inclusive Design and Design for Ageing Demographics, Perception Enhancement and the Human Centred Design Institute)
- Design for Sustainability (through Sustainability and Social Responsibility and Cleaner Electronics)
- Design for the Creative Industries (including Design Innovation Management, Open Design, Design Entrepreneurship and the Digital Economy, Creativity and Innovation, Digital design – digital production and Information Architecture)

The diversity of our expertise and research grant portfolio enables us to provide challenging research opportunities and experiences for research students and offer consultancy and research and development services to industry. Our research is funded through competitive peer-reviewed awards from a range of UK Research Councils (RCUK, AHRC, EPSRC, ESRC), the Technology Strategy Board (TSB), European Union and government, and charitable foundations. Research-led knowledge transfer projects also confirm our strong end-user and industry relationships with both major international firms (Ordnance Survey, Shell Ltd, Reckitt Benckiser, Jaguar Land Rover, Samsung) as well as SMEs in the regional economy, and also in patented and product-based designs for manufacture.

RESCON14

The annual research student conference gives our research students an opportunity to practice their oral and written presentation skills by presenting their research findings to colleagues, academic staff and industrial collaborators. Prizes are awarded for the top presentations.

CONTACT US

www.brunel.ac.uk/contact-admissions
Brunel’s Economics and Finance Department is one of the ten largest Economics departments in the UK with a distinctive focus on integrating Economics, Finance and Accounting.

Our research informs industry, government and economic policy. Brunel offers two research programmes in Economics and Finance: the PhD and the Brunel Integrated PhD. All of our PhD students benefit from working with key researchers in their chosen area. Students also benefit from a multidisciplinary Master Class programme aimed at offering students access to a range of theories, methods and skills in the Social Sciences. The Brunel Integrated PhD in Economics and Finance aims to educate graduates to the high academic standards expected from PhD research with an integrated range of skills and knowledge that broaden and deepen subject expertise beyond the bounds of the usual research degree (see page 30). Our research covers a wide range of areas including financial markets and institutions, macro- and microeconomics, development, financial accounting, corporate governance and econometrics.

RESEARCH CENTRES

- Brunel Macroeconomics Research Centre (BMRC)
- Centre for Economic Development and Institutions (CEDI)
- Centre for Empirical Finance (CEF)
- Centre for Accountancy and Corporate Governance (CACG)

CURRENT PROJECTS

John Bennett, Professor of Economics, is currently researching informality (economic activity that is not registered with the authorities, e.g. for tax purposes) in developing and transition economies.

Menelaos Karanasos, Professor of Economics, is currently working on an EU funded research project looking at Macro Risk Assessment and Stabilization Policies with New Early Warning Signals (RASTANEWS).

CONTACT US

www.brunel.ac.uk/contact-admissions

FRANCIS ATSU

“Most credit risk models could not appropriately measure the probability of extreme default losses due to the assumption that default correlations are only driven by observable firm specific and macroeconomic factors. Hence, a new research strand emerged where US data sets are mainly used to augment previous models with frailty factor(s). Therefore, my research seeks to explore various multivariate models and dependence structures by developing a regime switch lognormal frailty model using listed firms on the London Stock Exchange – currently the largest by volume and most proactive exchange-traded fund exchange in Europe.

As a Commonwealth scholar, with a passion for development, after completion, my first action is to go back to Ghana and create a risk centre to be hosted by Ghana Institute of Management and Public Administration (centre for training public and private officials) with the core objective of training, research and policy formulation aimed at accelerating economic development and poverty reduction.”
EDUCATION

Education at Brunel offers excellent research degree programmes to students who benefit from world-class supervision from leading researchers in their fields.

Brunel’s Education research students not only address some of the most current and challenging issues but also publish their results in high-quality journals and present at international conferences. You can apply to study on a full-time or part-time basis for an MPhil, PhD or the new Doctor of Education (EdD) programme offered on a part time basis to senior professionals.

RESEARCH AREAS

• Pedagogy and Professional Practice (PPP) – teacher education and development; subject-specific pedagogy and transition between phases of education; models of effective practice in relation to science, technology, engineering and mathematics (STEM) education; leadership and management in education; philosophy of education; ways of identifying and fulfilling talent of special educational groups such as children with high potential in inner-city areas of social deprivation and the design of effective interventions; and cultural-historical activity theory.

• Education, Identities and Social Inclusion (EISI) – pupils’ understanding of culture and identity and the construction of sexual identities within educational settings; celebrity and youth culture; socio-emotional learning and development; ADHA; the ways in which the identities of student teachers change over the period on initial teacher education; the impact of identities on teachers’ engagement with professional development; psycho-social approaches to learning and development; sociology of education and discourse analysis.

RECENT PROJECT

In the recently published paper ‘Are we being de-gifted, Miss?’ primary school gifted and talented co-ordinators’ responses to the Gifted and Talented Education Policy in England are examined in the British Education Research Journal. The paper is based on Brunel’s national survey and interviews and it highlights what children and teachers think about teaching higher ability children.

CONTACT US

www.brunel.ac.uk/contact-admissions
Research in Electronic and Computer Engineering covers a wide range of areas which have direct compliance with industry vision and requirements, and are carried out in five research centres in the areas of telecommunications and sustainable energy and systems. The team offers comprehensive high-quality teaching and learning resources and strong research links with industry.

**RESEARCH AREAS**

- Centre for Media Communications Research (CMCR) – image compression, visual media processing, 3D imaging technologies, audio processing and recognition, media search and retrieval, real-time signal processing, networked media systems, media transport and delivery over heterogeneous networks and virtual/augmented reality technologies
- Wireless Networks and Communications Centre (WNCC) – wireless communication networks, broadcast communication networks, mobile communication networks, radio over fibre, future Internet and application of networks for the communication of information, media and services within the media, energy and environment, security and defence, manufacturing and medical industries
- Brunel Institute for Power Systems (BIPS) – power systems analysis for transmission and distribution networks, novel ICT solutions for smart grids, congestion and condition monitoring in electrical power networks, design and analysis of power electronics for sustainable electrical power systems and analysis of new energy markets
- Centre for Electronic Systems Research (CESR) – computational intelligence, signal processing, bio-informatics, large-scale data interpretation, charge particle dynamics of pharmaceutical aerosols, electrohydrodynamics atomization and spray systems, electrospinning of micro and nano fibres, electrical charge effects of pollen, bio-nanotechnology, lab-on-a-chip systems, NDT using digital radiography, NDT using EMAT sensor systems, blind navigation using GPS and wireless communication technologies, biometric security in wireless communication systems and numerical modelling of optoelectronic devices
- Centre for Sensors and Instrumentation (CSI) – detectors, instrumentation and data analysis methods applied to high energy particle physics, space science, medical imaging and remote instrumentation and control. Data processing techniques include grid computing, genetic programming and visualization

**BASEL ABU JAMOUS**

“I work in bioinformatics, an interdisciplinary field in which biologists meet information engineers. As biologists have been generating enormous amounts of raw biological data, information engineers have been increasingly needed to fruitfully analyse datasets.

My focus is on designing new specialised computational methods and applying them to biological datasets for new biological discoveries. I regularly interact with biologists and medical collaborators at the Universities of Oxford and Bristol to discuss the progress of the research. I have had the chance to present my work many times at these meetings. I have successfully proposed a new computational method, Bi-CoPaM, and published it, and one of its applications, in two journal papers.”

**CURRENT PROJECT**

One of Professor Nandi’s current projects is a collaboration between Brunel, Oxford, Bristol and Cambridge universities to study regulation of gene expression during red blood cell developments.

**CONTACT US**

www.brunel.ac.uk/contact-admissions
Our research is focused through the early modern studies group, the Brunel Centre for Contemporary Writing (BCCW), and the Brunel Gender and Sexuality Research Centre (BGSRC). Brunel is a leading centre for contemporary literature and theory with one of the UK’s strongest concentrations of researchers.

The BGSRC explores gender and sexuality as categories of social understanding and intellectual analysis across historical periods, geographical arenas, and intellectual contexts through research in comparative and postcolonial literatures, medical humanities, and premodern sexualities. Characterised by diverse and interdisciplinary critical approaches to major literary periods, geographies, and movements, our research explores marginalised forms and groups.

Our ground-breaking work on literature and ageing has had a major influence on UK policy makers and we are especially interested in how literary studies contribute to the analysis of social issues, identities, and the impact of new technologies.

**RESEARCH AREAS**

- Early modern writing and drama (Marlowe, Shakespeare, Jonson); spatiality and literary geographies; masques, progresses, and civic rituals
- Nineteenth-century literature: religious prejudice, secular anxieties, and narratives of cultural subversion; sensation and fantasy novels; science fiction
- Post-1945 avant-garde British fiction; modernist and post-war women’s writing; science fiction and fantasy writing
- Modernism / Intermodernism / Postmodernism
- Contemporary fiction (British, American); popular fictions, popular culture and consumption
- Postcolonial literature and theory; the politics of cultural translation
- Queer theory and writing; pre-modern sexualities and the body; sexology and medical sexualities; postcolonial queer identities
- Critical theory, literature and philosophy (especially Agamben, Derrida)
- Space, literary geographies, and psycho-geographies
- New histories of the book, authorship, oral and textual transmission, manuscript studies and codicology, editing and editorial theory
- Literature and religious identities (early modern propaganda; early modern Muslims)
- Literatures of the black and Asian diasporas in Britain; British Muslim identities and writing; South Asian women’s writing
- Irish writing, identities, and cyber-identities

**CURRENT STAFF PROJECT**

Dr Elizabeth Evenden teaches early modern literature and book history. She is researching anti-Catholic and anti-Spanish propaganda in the English and Portuguese book trades. *Re-shaping the Black Legend: Conflict, Coalition, and the Press* developed from her two monographs on the Protestant printer John Day and the polemicist John Foxe. Recently awarded a prestigious Marie Curie International Fellowship, she is based at Harvard University and at the Biblioteca Nacional in Lisbon.

“...the Third Autumn Conference of the Centre of Excellence in Cultural Theory (University of Tartu, Estonia, 2010); the British Association for American Studies conference (University of Exeter, 2013); and the World Congress of the International Union of Anthropological and Ethnological Sciences (University of Manchester, 2013). I was awarded an Allan & Nesta Ferguson grant for the last year of my doctoral study and received a Vice-Chancellor’s Travel Prize for conferences.”
The Institute for the Environment (IfE) houses a team of experts and excellent toxicology and ecotoxicology facilities, a range of testing and analysis equipment, and equipment for the chemical analysis of samples. IfE’s research tackles a diverse range of environmental science issues.

**RESEARCH**

Students can work towards an MPhil, PhD or Brunel Integrated PhD – choosing a research topic is an interactive process between you and IfE, though you will have some idea of the general area that you would like to investigate. More information on the Brunel Integrated PhD is available on page 30.

**RESEARCH AREAS**

- **Dr Chaudhary** is involved in the development, optimisation and commercialisation of clean and clean-up technologies for environmental pollution control
- **Prof Jobling** aims to understand how contaminants influence wildlife and human health, and how technological processes might assist in their removal
- **Prof Kanda** is interested in the development and application of high resolution MS and MS/MS analytical techniques for the determination of exposure of humans and wildlife to priority pollutants and hazardous substances
- **Dr Kershaw** aims to interpret environmental change in Earth surface environments in areas associated with active change in the Earth’s crust and to assess modern geohazards
- **Prof Kortenkamp’s** interests include understanding combined effects of environmental pollutants on human health and wildlife and developing strategies for mixtures in chemicals regulation
- **Prof Leroy** is a palynologist interested in reconstructing past climates using lake and marine sediment sequences ranging from the Pliocene to the present
- **Dr Routledge** is interested in human and wildlife health effects of exposure to biological and chemical contaminants in water
- **Dr Russell** is interested in atmospheric phenomenon on a variety of temporal and spatial scales, including severe storm events in Western Europe
- **Dr Scrimshaw** focuses on the fate and behaviour of chemical contaminants in the environment and during waste water treatment, including evaluation of their environmental impact and measures to control their discharge to the environment
- **Dr Silva** is interested in how steroidal and environmental estrogens (and mixtures) affect breast glandular structure, morphogenesis and carcinogenesis in an effort to improve the understanding of hormonal carcinogenesis using in vitro 3D cultures
- **Prof Sumpter** is interested in the effects of human pharmaceuticals present in rivers, such as betablockers, steroids and anti-cancer drugs on fish, with research ranging from molecular level studies to population level effects
- **Dr Zeka** is interested in human health effects of occupational and environmental exposures, specifically air quality. She is interested in exploring health determinants in societies in transition

**CONTACT US**

www.brunel.ac.uk/contact-admissions

www.brunel.ac.uk/ife

---

**KOFI RENNER**

“My decision to study a PhD at Brunel’s Institute for the Environment is partly based on the wonderful experience I had while studying for my Master’s in Environmental Science. Brunel is equipped with modern facilities that are student friendly. Members of staff are pleasant and always willing to be of service to students. The high calibre lecturers, access to modern analytical and laboratory facilities, the award-winning status of the Institute and its contribution to key issues that help environmental policies in the UK today are some of the reasons I decided to do my PhD here. The Institute has carved a niche for itself within environmental science conducting studies in new areas such as microplastics, which I am interested in. The Institute for the Environment is the right place for me to learn and become an expert in my field.”
Research in Film and TV Studies at Brunel is coordinated by the Screen Media Research Centre. Members have established a substantial body of internationally recognized work in film, television and areas of digital media. We specialise in studies of contemporary film, television and related media but also welcome applications with a more historical basis. We can supervise practice-based as well as more traditional, theoretically-focused projects, in areas including but not limited to those listed below.

RESEARCH AREAS
- Recent and contemporary British, European, African, Hong Kong, Hollywood and American independent cinema
- The Gothic
- Fairy tales
- Film and philosophy, film and memory
- Representations of Africa
- Cult film, television and other media
- British and American television
- Science fiction, horror, comedy, the western, crime films
- Documentary, video practice, practice as research
- Media and press regulation
- Political cinema, activist media
- Gender, sexuality and the body in film
- Celebrity culture
- Marxist and psychoanalytical approaches to screen media
- Cinematic spectacle, narrative
- Avant-garde and experimental cinema
- Ecocriticism and screen media
- Trade unionism in film and TV industries

CURRENT PROJECTS
Prof Julian Petley is researching and campaigning on shortcomings in British media regulation, having given evidence as a major authority on the subject to the Leveson enquiry into press ethics.

Other projects include a new study of celebrity culture by Dr Milly Williamson and an examination of the Hollywood ‘quality’ film by Prof Geoff King.

CONTACT US
www.brunel.ac.uk/contact-admissions

MARK ADAMS
“My research examines the role of fan-producers in contemporary television, contributing to a reassessment of theories relating to the activities of media audiences.”
Brunel has a thriving PhD programme devoted to the academic study of games from a range of perspectives. The dedicated Games Lab provides a base from which to work, is a great place to play games of all formats old and new, and to engage with staff and students investigating this exciting new academic topic. Recent guest speakers have included Francis Tresham, original inventor of Civilization, Reiner Knizia, the most prolific game designer ever and Jervis Johnson, Games Workshop’s Senior Game Designer, as well as a plethora of other significant figures from the games industry.

We combine both theory and practice and can support almost any games related research project. Staff include a mixture of academics from differing backgrounds which, in addition to bringing a wealth of theoretical knowledge, have decades of practical industry experience as well. Games at Brunel welcomes anyone, from any sort of background, with a strong research proposal for full-time or part-time study.

**RESEARCH AREAS**

- Games and narrative / storytelling / textual analysis
- Games Design and the workings of gameplay
- Gamers’ relationships to virtual worlds and environments
- Practice based research resulting in experimental or avant garde game designs / prototypes
- Studying the gamer and gaming as a media type or subculture

**CURRENT PROJECTS**

- **Dr Kelly Boudreau** focuses on player/avatar hybridity in the networked process of digital game play, governance of toxic gamer culture, as well as emerging research methodologies.
- **Dr Ashley Brown** is researching sexuality in games and community management with an eye to improving user experience and encouraging diversity in player populations. Her other projects include examinations of morality and ethics within play and games.
- **Justin Parsler** is taxonomising the types of agency available to players in formal game structures.

**CONTACT US**

[www.brunel.ac.uk/contact-admissions](http://www.brunel.ac.uk/contact-admissions)
HEALTH ECONOMICS

The Health Economics Research Group (HERG) is an internationally recognised centre of excellence in applied health economics. It undertakes high quality, policy-relevant research and contributes to the development of evaluation methodologies. Its research currently focuses on economic evaluation of health technologies, economics of public health, measurement and valuation of outcomes from health interventions, use of economic evaluation in decision making and methods of evaluating the ‘payback’ from research and development in the health sector.

Academics in the Group encompass a variety of disciplines including economics, public health, health services research, political science, and information science. Associated researchers at Brunel extend this network to statistics, medical sociology, nursing, psychology, mathematics, information and computer science.

Much of HERG’s work is carried out with or on behalf of medical institutions such as hospitals, medical research units and NHS bodies as well as international organisations. HERG has made major contributions to developing multidimensional ways to conceptualise and measure the payback from health research, and these are proving to be areas of growing interest to governments and research funding bodies in various countries.

RESEARCH AREAS

- Development and use of benefit measures for evaluation and policy
- Modelling the cost-effectiveness of health interventions
- Cost-effectiveness alongside a range of experimental and quasi-experimental designs
- Applied economic evaluations
- Resource allocation formulas
- Assessing the ‘payback’ derived from the funding of health and medical research

CURRENT PROJECTS

Joanne Lord, Reader in Health Economics, conducts research into the cost-effectiveness of health care technologies. She is the lead economist on a portfolio of applied studies, working alongside clinicians, statisticians and other health service researchers. For example, she is working with Warwick Medical School on a study to identify which people with low back pain are most likely to respond well to different types of therapy.

CONTACT US

www.brunel.ac.uk/contact-admissions

CHRISTIAN’S PhD EXPLORES THE ‘TRANSFERABILITY’ OF ECONOMIC EVALUATION RESULTS ACROSS GEOGRAPHIC AREAS.

“While it is common practice to transfer results from cost-effectiveness studies of health interventions from one country to another, there are always concerns about doing so. My PhD explores the ‘transferability’ of economic evaluation results across geographic areas. It develops and tests approaches to identifying factors that predict when transferring evidence may be appropriate.”
THE HEALTH DIVISION

The Health Division has a truly multidisciplinary focus with staff members from a wide range of professional, subject and disciplinary backgrounds. Staff research outputs include seminal text books on health promotion and medication management in care of older people.

Research centres include the Brunel Institute for Ageing Studies (BIAS), the Centre for Professional Practice (CPPR), Centre for Citizen Participation (CCP), Centre for Research in Rehabilitation (CRR), Centre for Child and Youth Research (CCYR), Centre for Human Geography (CHG) and the Centre for Youth Work Studies (CYWS).

You may apply to work on one of our pre-defined projects or propose a self-chosen project.

RESEARCH AREAS

- Health research
- Health promotion and public health
- Health care law
- Health and social policy
- Community health care nursing
- Health economics
- Occupational health and safety
- Health management and counselling

CURRENT PROJECTS

Our researchers are currently involved in collaborative projects with organisations such as the Quality of Life Group of the European Organisation for Research and Treatment of Cancer, Department of Trade and Industry backed Knowledge Transfer Partnerships with North West London Acute Trusts, Haringey Primary Care Trust, the Ethiopian Community Centre and the University of Magdeburg and the International Union of Health Promotion and Education.

CONTACT US

www.brunel.ac.uk/contact-admissions

INGRID BACON

“I entered the world of Brunel University to study Occupational Therapy. After completing my degree, I had the opportunity to work in different countries, where I practiced as a mental health clinician. I obtained two Masters degrees in Psychology and Health Studies.

In April 2011, I applied for a PhD Scholarship at Brunel, which also involved some teaching responsibilities. The financial element of this was a key enabler in being able to pursue my dreams.

I am currently in the second year of my PhD and although it is hard, I am enjoying every minute. I had the opportunity to teach on several different modules and also to mark assignments.

I have received immense support from the module leaders and supervisors. I also had the opportunity to receive training and support through the Graduate Learning and Teaching Programme, which offered an opportunity to develop my teaching skills, and also to reflect on my future career as an academic.”
The Journalism PhD offers you the chance to complete a substantial work within our Centre for Advanced Journalism Practice, an exciting research environment in London. You will benefit from the experienced supervision of our tutors, all of whom are former or current journalists as well as academics.

It is an ideal progression from a Master’s degree, or for professional journalists wishing to gain a doctorate, such as those wishing to teach journalism at university level.

Journalism research at Brunel can embrace the examination of practice – both your own or that of others – and critical reflection and research into the educational and social impact of this discipline. Graduates are offered expert support in professional preparation of their thesis and are expected to establish a strong publication record.

**RESEARCH AREAS**

We can support a wide range of interdisciplinary studies into journalism, including (and not limited to):

- Reflexive, research-led practice
- Journalism history
- Occupational studies
- Journalism and trauma
- Representation of gender, ethnicity, disability, sexuality
- Journalism genres
- International journalism
- Conflict reporting
- Investigative journalism
- Data journalism and the impact of social media
- Celebrity journalism
- Journalism education and training

**CURRENT PROJECTS**

Sarah Niblock, Professor of Journalism, is currently looking at the effects of reporting child grooming cases on care policy. Other research interests within the team currently include broadcast regulation, visual journalism, psychoanalysis and journalism and much more.

Sawsan Taha’s thesis examines the reporting of internal conflicts in Middle Eastern countries.

**CONTACT US**

[www.brunel.ac.uk/contact-admissions](http://www.brunel.ac.uk/contact-admissions)
Law research at Brunel covers a wide range of subjects including human rights, public law, commercial law and international commercial law, criminal law and criminal justice, and private law. It includes doctrinal, theoretical, socio-legal and empirical, comparative and historical research.

Research centres and research groups hold regular research seminars, workshops and conferences, as well as providing a forum for PhD students to discuss their work and be involved in research activities related to their thesis. Law at Brunel welcomes applications for a PhD, MPhil or LLM by research.

**RESEARCH CENTRES**

Brunel Law has a number of highly active Research Centres and are responsible for the publication of three highly respected journals: *State Practice and International Law*, *Journal of Islamic State Practices in International Law*, and *International Human Rights Law Review*.

- Brunel Centre for the Study of Arbitration and Cross-Border Investment
- Centre for International and Public law
- Company and Commercial Law Group
- Criminal Justice Research Centre
- Family Law Research Group
- Human Rights Centre
- Intellectual Property, Internet and Media Research Centre
- Law and Religion Research Group

**RESEARCH AREAS**

- Arbitration and alternative dispute resolution
- Banking and finance
- Company law and corporate governance
- Comparative law
- Competition law
- Consumer law
- Contract
- Criminal justice
- Criminal law
- Discrimination law
- Environmental law
- European Union law
- Evidence
- Family and child law
- Gender and the law
- Human rights
- Intellectual property
- International economic law
- International trade law
- Internet law
- Islamic Law
- Labour law
- Legal history
- Legal practice
- Legal theory and jurisprudence
- Media law
- Nationality, immigration and asylum
- Privacy and data protection
- Procedure
- Public international law
- Public law
- Religion and the law
- Restitution and unjust enrichment
- Socio-legal studies
- Southern African Development Community
- Taxation
- Terrorism and the law
- Tort
- Trusts and equity

**CURRENT PROJECTS**

Prejal is conducting research in the field of comparative criminal justice on the subject of police interrogation and its impact on suspects' rights; a comparative study between India and England and Wales.

**CONTACT US**

www.brunel.ac.uk/contact-admissions

---

**FOLA**

“I completed my LLM in International and Economic Trade Law at Brunel in 2011. Having recently been called to the Nigerian Bar, I returned to Brunel to start my PhD in 2013. My thesis looks at Financial Regulation and Stability in relation to the Nigerian Banking sector. I chose to return to Brunel because of the amazing academic support I received during my LLM.”
MATERIALS CHARACTERISATION AND ANALYSIS

The Experimental Techniques Centre (ETC) specialises in high level characterisation and analysis of a wide spectrum of materials. It encompasses bioengineering and biosciences, the environment, and an extensive range of engineering. ETC provides an accredited evaluation service to industries and a wealth of collaborative opportunities for external research and development enterprises.

ETC focuses on surface science, thin films, materials and nanoscale investigations. A wide range of techniques are available, including electron microscopy (SEM and TEM), X-ray photoelectron spectroscopy (XPS), atomic force microscopy (AFM) and Fourier-transform infra-red spectroscopy (FTIR). There is an X-ray diffractometer (XRD) for crystal structure studies as well as a Secondary Ion Mass Spectrometer (SIMS) for surface chemistry investigations. There are openings for postgraduate research students in varied areas of investigation, with funded places available in some instances.

RESEARCH AREAS

- Thin films and coatings
- Environmental science
- Archeometallurgy
- Nanoparticles
- Pollution remediation
- Forensic science
- Cell Interactions with metals

CURRENT PROJECTS

- A Wodylka, materials selection
- Dr N Attard-Montalto, fingerprint chronology
- N Nelson, diamond-like carbon and tool wear
- A Tagg, microplastics in the environment
- N Faridamin, cell surface potential
- Laser cutting of fibres

Alexander’s work will incorporate many aspects of surface analysis, particularly FPA-based micro-FTIR and TOF-SIMS. Microplastics are tiny (<1mm) particles of plastic that are being more and more documented in aquatic systems. Despite more work being published on the occurrence of microplastics, little has been done to investigate both the implications of such plastics in the environment and the ways in which these plastics enter the environment.

CONTACT US

www.brunel.ac.uk/contact-admissions
www.brunel.ac.uk/etc

Alexander’s work will investigate the fate of microplastics in the wastewater treatment process. This work is being done both at the ETC and FERA (The Food and Environment Research Agency).
The Wolfson Centre for Materials Processing focuses on materials science. Established in 1987 by Professor Mike Bevis with the help of a generous grant from the Wolfson Foundation, the Centre has grown to become a distinguished international centre of excellence for materials technology.

The Centre has a wide range of techniques available, including scanning electron microscopy, raman spectroscopy, thermogravimetric analysis, differential scanning calorimetry and nanoindentation.

RESEARCH AREAS

- Nanomaterials
- Nanophosphors and nanostructured carbon
- Biofuels
- Polymer extrusion
- Biodegradable food packaging
- Organic light emitting diodes (OLEDs)
- Display materials

CURRENT PROJECTS

Dr P Allan is conducting an investigation into the use of materials from renewable resources for automotive components with improved physical properties. Other projects currently active in the Centre are studying bio-fuels, OLEDs, phosphors, natural polymers and fibres, cements and recycled materials.

CONTACT US

www.brunel.ac.uk/contact-admissions
wolfson-centre@brunel.ac.uk

AMIR KHAMSEHNEZAD

“For my PhD I am investigating the application of ultrasonic vibrations on polymer processing for the improvement of product properties.”
Mathematics at Brunel is a large, active department with a significant number of PhD students. Within Applied Mathematics we have a strong research presence in Applied Analysis, Computational Mathematics, Continuum Mechanics and Mathematical Physics. We also have an active group working in Statistics and Operational Research.

Mathematics at Brunel offers PhD, MPhil and the Brunel Integrated PhD (formerly the New Route PhD). More information of the Brunel Integrated PhD is available on page 30.

The department is home to three Research Centres and three Research Groups.

RESEARCH GROUPS
- Computational and Applied Mathematics Group (CAM)
- Financial Mathematics, Operational Research and Statistics Group (FORS)
- Mathematical Physics and Combinatorics Group (MPC)

RESEARCH CENTRES
- **BICOM** – Brunel Institute of Computational Mathematics, specialising in the theory and application of finite element methods.
- **BURSt** – Brunel University Random Systems Research Centre, specialising in the study of random phenomena.
- **CARISMA** – Centre for the Analysis of Risk and Optimisation Modelling Applications, focusing on risk and optimisation, especially in the field of finance.

CURRENT PROJECTS

**Suren Islyaev** is working towards a PhD in Operational Research. Her goal is developing meaningful, computationally efficient financial models. She develops models with random parameters, which enables pricing of financial instruments such as futures contracts and options. She is also interested in forecasting possible price movements.

**Xiang Yu**'s thesis is entitled *New Sentiment and its Applications in Finance*. With the development of technology and computer science techniques, machines are now able to read and deduce the sentiment of text. This is presented as a quantitative measure that we believe can bring additional value to the prediction of stock prices. We build prediction models for stock price return, volatility and liquidity for both a univariate and multivariate setting.

CONTACT US

[www.brunel.ac.uk/contact-admissions](http://www.brunel.ac.uk/contact-admissions)
MECHANICAL/AEROSPACE ENGINEERING

Mechanical Engineering is home to Aerospace/Aviation Engineering, Motorsport/Automotive Engineering, Building Services and Energy Studies. Mechanical/Aerospace engineering covers the design and development of every kind of machine – from supersonic fighter jets and toasters to mobile phones and artificial organs. Research activities and projects are mainly carried out in collaboration with partners from industry, as well as universities and scientific organisations in the UK and abroad.

Research programmes include MPhil, PhD and Brunel Integrated PhD. More information on the Brunel Integrated PhD is available on page 30. Research students are provided with research and software training, and are encouraged to present their work at research seminars and conferences, for which some funding may be available.

RESEARCH AREAS

• Aerospace engineering
• Applied mechanics and biomedical engineering
• Biofluid mechanics
• Computational mechanics
• Energy and built environment
• Engineering dynamics
• Automotive powertrain and fuels

CURRENT PROJECT

‘Vortex induced vibration and structural integrity of deep water flexible risers’ by H. Bahai, G. Alfano & J. Wissink is a multidisciplinary project funded and supported by EPSRC and industry, within a consortium led by Brunel University London including Imperial College and the University of Southampton as academic partners and BP and Shell as industrial collaborators. The objectives of the project include the development of a multi-scale and multi-physics numerical model to simulate the complex non-linear behaviour of unbonded flexible pipes, which are increasingly being used in the oil & gas industry to access and exploit deep-water hydrocarbonate resources.

CONTACT US

www.brunel.ac.uk/contact-admissions

BEN MOXEY

“I am doing a PhD in the Centre for Advanced Powertrain and Fuels Research (CAPF) investigating the combustion flame development and burning characteristics of alcohol fuel blends in a spark-ignition engine. This work has involved designing a specialised cylinder head with a glass roof so I can use a high-speed camera to record the combustion. With these images, using in-house software, I can compare and contrast the differences between how the various fuels burn and interact. My studies have been so well supported by my supervisor and the department; I was even able to go to Poland to a conference to present a paper based on the work I was doing. Next I will be joining the automotive consultancy MAHLE Powertrain.”
MUSIC

At Brunel the focus is on twenty-first century musicianship. Programmes focus on the music of our time, but are informed by a broader understanding of the history and materials of western music and of other musical traditions.

Staff include some of the leading figures in European contemporary music: composers John Croft, Christopher Fox, Colin Riley and Jennifer Walsh, ensemble music innovator and improvisation leader Peter Wiegold, musicologist Nicholas Attfield, jazz musician Frank Griffith, electronic music experimentalists Harald Muenz and Carl Faia and leading contemporary pianist Sarah Kingdom-Nicolls. Artists in association include Apartment House, Leafcutter John, and Piano Circus, who work with postgraduate composition students through workshops. Supervision is offered at MPhil and PhD levels.

RESEARCH AREAS
• Brunel Institute for Contemporary Middle-Eastern Music
• Centre for Contemporary Music Practice
• Institute of Composing

CURRENT PROJECTS
Christopher Fox, Professor of Music, is working on a series of compositions which explore how we perceive music – what we hear and how we remember it. His most recent large-scale work is Tales from Babel, a collaboration with speech scientists and the vocal ensemble, The Clerks, which explores the extent to which our brains are able to process different strands of information which are being received simultaneously.

GREGORY EMFIETZIS
“The main reasons I chose Brunel were my supervisor, Professor Christopher Fox, and a dynamic music department, home to some of the biggest names in British contemporary music such as Bob Gilmore and Peter Wiegold. My time at Brunel helped my development greatly. It wasn’t only the high level of teaching and supervision I received – I am particularly fond of the direction and accompaniment I enjoyed, the motivation and encouragement, the widening of my horizons. Since I left Brunel there have been many interesting work opportunities.

I was selected as part of the London Symphony Orchestra’s Soundhub Scheme, where I’ve created Music Impossible, a shadow music theatre project, and am currently developing new work for the London Symphony Orchestra. I won a competition hosted by the Wiener Konzerthaus to mark its 100th season and worked with musicians of the Berlin and Vienna Philharmonics for the performance of my work Fear (not). The last of this series of engagements was the recent production of my opera The Darkness of Mistico (libretto by M.Loulaki), produced by the Greek National Opera.”

PAUL MCGUIRE
“My research focuses on re-imagining how performers approach musical instruments, on sounds that are underused and often considered incidental. I completed Marshes (2013) for mass guitar ensemble; electric guitar players bow their instruments with pieces of dowel to generate a delicate, wailing sonority and beat their instruments with marimba mallets to create opaque bell-like drones. Acoustic guitar players bow their instruments with loosened cello bows, producing a “fizzing” sound. I use graphic notation: musical cells are plotted onto a horizontal timeline; each cell depicts the speed and pressure at which the instruments are bowed and the speed at which the guitars are beaten with mallets.”

CONTACT US
www.brunel.ac.uk/contact-admissions

WWW.BRUNEL.AC.UK
OCCUPATIONAL THERAPY

The occupational therapy division is committed to evidence based practice and teaching. Our staff are active researchers and regularly publish in national and international journals. Our research activity is expanding and most is focused on current practice and linked with NHS Trusts or Social Service departments.

We welcome applications for PhDs and potential applicants are welcome to contact members of the OT team:

www.brunel.ac.uk/chls/clinical-sciences/people

The Centre for Professional Practice Research draws upon academics, service users and practitioners with specific practice skills and/or an interest in research embedded within practice. A strong emphasis is placed on promoting critical debate and evidence based practice. Key areas of research are teaching and learning in professional practice, occupational therapy based research in practice, supportive environments and evidence based practice. The Centre runs a series of public lectures each year and has attracted international academic speakers such as Professor Jeannie Jackson, Professor Mary Law, and Professor Michael Iwama.

RESEARCH AREAS

We have expertise in wide range of clinical areas including:

- mental health
- older adults
- rehabilitation
- pediatrics

CURRENT PROJECTS

Dr Georgia Spiliotopoulou (PI), Dr Anita Atwal, Dr Anne McIntyre and Shirley Russell (British Polio Fellowship) were awarded a grant from the UKOTRF Research Priority Grant to develop, validate and determine the usability and reliability of national guidance on measuring the home environment for provision of minor assistive devices.

Nicola Plastow is an occupational therapist who was awarded a fellowship to fund a PhD project over three years to explore the relationship between performance of food-related activities and hoped-for and feared possible selves as older people age.

CONTACT US

www.brunel.ac.uk/contact-admissions
Our research focuses on the management of a range of long term musculoskeletal, neurological and respiratory conditions, including chronic pain, stroke and primary hyperventilation syndrome. Our research explores the efficacy of rehabilitation strategies, the environments in which they can be used and the patient’s lived experience of these conditions and their management.

The Physiotherapy division hosts the Centre for Research in Rehabilitation (CRR), an interdisciplinary research centre with diverse membership that reflects the complexity of rehabilitation as a dynamic field of practice and research. CRR focuses on physical disability and rehabilitation research. As a “Centre Without Walls” with flexible external links, it has become a magnet for the provision of expertise in research in rehabilitation. We also work collaboratively with our local health providers and practitioners in order to support research development and to ensure that our focus remains clinically directed to maximise its impact. PhD applications are invited for self-proposed topics or for research that is aligned with existing streams.

**RESEARCH AREAS**

- The effectiveness of contemporary rehabilitation strategies for long term conditions (with a focus on stroke, chronic pain and primary hyperventilation syndrome)
- Environmental influences on current rehabilitation strategies
- The development of novel rehabilitation approaches (with a focus on stroke, chronic pain)
- Exploring the lived experience of chronic illness

**CURRENT PROJECTS**

**Dr Neil O’Connell** has been investigating the use of emerging non-invasive brain stimulation technologies as a potential intervention for chronic pain. His research included systematic reviews and meta-analysis with the Cochrane Collaboration, an exploratory clinical study in patients with chronic low back pain and an investigation into potential biases in this field of clinical research.

**Alyson Warland** is currently undertaking PhD research into the use of Wii technology in stroke rehabilitation.

**CONTACT US**

www.brunel.ac.uk/contact-admissions
Politics and History at Brunel prides itself on the quality and relevance of its work. It places great value on investigative and theoretical projects but also stresses the usefulness of its research to the community at large. Academics achieve impact by networking extensively with other scientists, policy makers and civil society, acting as researchers, educators, and advisors to the government and community.

PhD students benefit from working and researching alongside internationally leading scholars across a diverse range of topics and take an active role in the organization of local, national and international events and workshops. Students also benefit from a multidisciplinary Master Class programme aimed at offering students access to a range of theories, methods and skills in the Social Sciences.

Politics and History research centres, groups and networks promote international, interdisciplinary and high impact research by acting as key points of contact between academics, practitioners and the wider community, organizing major events, and hosting associated researchers.

**RESEARCH AREAS**
- Isambard Centre for Historical Research
- Brunel Centre for Intelligence and Security Studies (BCISS)
- Magna Carta Institute
- Social and Political Thought Research Group
- International Studies Research Group
- Brunel Heritage Research Network

**CURRENT PROJECTS**
Astrid Swenson is a specialist on cultural heritage in modern Europe. She is currently working on a research project supported by the British Academy on the enduring impact of the Crusades on modern notions of heritage, national identity and international relations.

Elisabetta Mocca is currently researching ‘Multi-level Governance and Environmental Policy: The role of Transnational Municipal Networks in the definition of local policy-making’.

**CONTACT US**
[www.brunel.ac.uk/contact-admissions](http://www.brunel.ac.uk/contact-admissions)

“"For any prospective student a move to a new university, or a move back into university for an advanced degree, is a significant life decision. Deciding to leave government work in Canada and do my PhD was a risk, so I did plenty of research on my options. I definitely made the right decision. Studying at Brunel’s Centre for Intelligence & Security Studies means I am in a top-notch research centre. The faculty consists of world-renowned scholars in their fields doing research with real world policy impact.

As a student of politics, Brunel’s proximity to London offers excellent networking opportunities for research. In my specific field, this proximity has allowed me to regularly connect with researchers and practitioners from a multitude of other countries giving my research a more valuable global dimension.

Locally, the compact Brunel campus also ensures that it is easier for PhD students to collaborate across disciplines which I have found a significant advantage in my own work.”

ANDREW BRUNATTI
Psychology at Brunel provides high quality research training in a stimulating, intellectually-intensive environment.

Academic colleagues offer expert supervision and take an active and ongoing interest in the research being conducted. In addition to regular meetings with supervisors, research students participate in research seminars, and a variety of skills and methodology training sessions. Students are actively encouraged to present at disciplinary research seminars, and are encouraged to participate in national and international academic conferences. Psychology at Brunel has an international reputation for research excellence, covering a range of topics and methodological approaches using multiple complementary levels of analysis. Research interests cover a range of specialist areas including cognitive neuroscience, cross-cultural psychology, evolutionary psychology, health and behaviour, and psychoanalysis.

Research in Psychology is organised around five centres:

**RESEARCH CENTRES**

- Centre for Cognition and Neuroimaging (CCNI)
- Centre for Culture and Evolutionary Psychology (CCEP)
- Centre for Research in Infant Behaviour (CRIB)
- Centre for the Study of Expertise (CSE)
- Centre for the Study of Health and Well-being (CSHW)

**SOME CURRENT PROJECTS**

**Dr Tara Marshall**, Lecturer in Cross-Cultural Psychology, has examined cultural variation in attachment and intimacy in romantic relationships and the emerging role of social media.

**Dr Nicholas Pound** (senior lecturer) has carried out influential research on associations between testosterone and facial appearance, and also on the importance of facial masculinity and body shape for female mate choice (with Dr Andrew Clark, Dr Isabel Scott & Dr Michael Price).

**Jayanthiny Kangatharan’s** project looks at the possible contribution of vowel hyperarticulation to speech communication.

**Lisa Kunn’s** ESRC-funded project involves a developmental & cross-cultural investigation of emotions and traits related to human voice.

**Miki Tanaka’s** project explores the psychological reactions of people in Fukushima during the ongoing dangers of radioactivity.

**CONTACT US**

[www.brunel.ac.uk/contact-admissions](http://www.brunel.ac.uk/contact-admissions)
SOCIAL WORK

The Social Work staff group at Brunel represents a wide range of practice and academic experience in social work and social policy. Through programme partnership, the Social Work division maintains close links with social service and voluntary organisations.

Research activities take place through five research centres, listed below.

RESEARCH AREAS
- Brunel Institute for Ageing Studies (BIAS)
- Centre for Child and Youth Research (CCYR)
- Centre for Citizen Participation (CCP)
- Centre for Human Geography (CHG)
- Centre for Youth Work Studies (CYWS)

CURRENT PROJECTS
Professor Judith Harwin was principal investigator of the funded independent first stage evaluation of the Family Drug and Alcohol Court (FDAC). The aims were to describe the FDAC pilot and identify set-up and implementation lessons, make comparisons with standard court proceedings involving parental substance misuse, including a comparison of costs, and to indicate whether this different approach might lead to better outcomes for children and parents.

CONTACT US
www.brunel.ac.uk/contact-admissions

JASNA RUSSO
“I am investigating the potential emergence of a social model of madness based on personal accounts, research and the analytic work of authors who identify as mental health service users or psychiatric survivors. The methodology of this project sets out to demonstrate the value of interaction, shared identity and dialogue in generating knowledge and understanding complex human experiences. The working title of my thesis is ‘Towards a first person-defined model of madness’.”
Sociology and Communications research at Brunel tackles core theoretical questions and engages with both the international research community and relevant groups across industry, government and the public, bringing together theoretical and practical concerns to develop fresh approaches to new and classic interdisciplinary themes and problems.

Brunel Sociology and Communications supervises MPhil and PhD students from around the world. You will be provided with careful supervision and rigorous, appropriate training. Students also benefit from a multidisciplinary Master Class programme aimed at offering students access to a range of theories, methods and skills in the Social Sciences.

Sociology and Communications welcomes enquiries from potential PhD candidates in any area of specialism. Members of our research centres and networks are at the forefront of study into subjects as diverse as globalisation, health, multiculturalism, new media, popular culture, science and technology.

CURRENT PROJECTS

Sarita Malik, Lecturer in Sociology and Communications, has been awarded a research grant from the Arts and Humanities Research Council (AHRC) to explore the debate around current filmmaking and cultural diversity. Her previous AHRC-funded project (2012) examined the role of Diasporic film and communities, in partnership with the British Film Institute. This new research aims to better understand how community filmmaking practices in culturally diverse contexts contribute to the wider film ecology.

Funded by a Wellcome Trust PhD Studentship, John Gardner’s project is entitled ‘A Sociology of Medical Innovation: Deep Brain Stimulation and the Treatment of Children with Dystonia’.

Nancy Tamimi is researching the use of electronic nicotine devices (E-Cigarettes).

CONTACT US

www.brunel.ac.uk/contact-admissions

RESEARCH AREAS

- Centre for Biomedicine and Society (CBAS)
- Centre for Culture, Media and Regulation (CCMR)
- Centre for Comedy Studies Research (CCSR)
- Moral Panic Research Network
The Brunel Centre for Sport, Health and Wellbeing (BC•SHaW) undertakes social science research into the role of sport, health and wellbeing in contemporary society. The Centre has a strong focus on research that is relevant to policy and practice. Our work is arranged under four research themes and spans a wide remit, from analysis of healthy lifestyles and recreational sport participation, to research into elite sport systems and performers.

The Centre for Sports Medicine and Human Performance (CSMHP) focuses on integrative aspects of human physiology, biomechanics and psychology of sport and exercise. Our aim is to further the understanding of the regulation and adaptation of the cardiovascular, respiratory and neuromuscular systems to exercise and training, as well as the physiological, biomechanical and psychological limitations to human sport performance and exercise tolerance. Scientists working in the Centre also have backgrounds in cognitive psychology, neuroscience, motor control and learning, instructional systems design, human factors and sport science, which promote a multi-disciplinary approach to the study of human performance.

RESEARCH AREAS

- The Brunel Centre for Sport, Health and Wellbeing (BC•SHaW) – social sciences, sports management and psychology of sport
- The Centre for Sports Medicine and Human Performance (CSMHP) – biomechanics, physiology, sport psychology and motor control
- Centre for the Study of Expertise (CSE)

CURRENT PROJECT

Colm Murphy received funding from the Lawn Tennis Association (LTA) to initiate doctoral research under the supervision of Professor Mark Williams, Dr Robin Jackson and Dr Dan Bishop focusing on how best to capture and train anticipation and decision-making skills.

Colm works closely with his mentors at Brunel and uses player-based tracking data from the LTA to create computer-based animations of match situations. These are used to design experiments and player tests, the result of which will improve interventions that enhance the development of anticipation and decision-making skill.

CONTACT US

www.brunel.ac.uk/contact-admissions
Theatre at Brunel offers supervision for MPhil and PhD research degrees in a wide range of areas, primarily in performance as research and theatre practice/theory, performance writing and digital performance/media arts.

The Centre for Contemporary and Digital Performance runs an annual series of Performance Research Seminars. The Centre’s research group seeks to explore and to help define the future of performance and theatre particularly in its intersections with digital cultures, and with new media technologies and communications in the creative industries.

**RESEARCH AREAS**

- Theatre history
- Gender and sexuality in performance
- Post-colonial drama and dance
- Performance writing and live performance creation
- Directing and script development
- New dramaturgies and scenographic practices
- Digital performance and digital art
- Interactive wearable design
- Choreography and mixed reality choreographic/installation
- Alternate embodiments/virtual world performance
- Bio-art and bio-technologies
- Performance of socially engaged practices
- Site-specific and contextualized performance
- Applied drama/community politics
- Gender and sexuality in performance
- Audio-visual art and live coding

**CURRENT PROJECTS**

Prof Thomas Betteridge is working on an AHRC funded project Staging and Representing the Scottish Renaissance Court, centred upon Sir David Lyndsay’s play *A Satire of Three Estates*. The aim was to examine through performance Lyndsay’s extraordinary play and to locate it within current debates over Scottish identity and culture.

**CONTACT US**

[www.brunel.ac.uk/contact-admissions](http://www.brunel.ac.uk/contact-admissions)

**LIZETA MAKKA**

“My research examines the current economic and institutional crisis in Europe, mainly in Greece, and analyses the crucial encounter between tragedy and modernity that helped shape modern notions of ethics and the relationship between the aesthetic and political. It also examines the occupation of public spaces as an act of resistance and protest against political authorities.”
In addition to the contractual information sections contained in the prospectus such as course descriptions and financial and general information, and the obligations published here, your place with the University will be subject to the terms and conditions stated in our offer letter to you as well as also being subject to our Statutes, Council Ordinances and Senate Regulations and all University rules, policies and procedures from time to time in force (together our “terms”). Some of these documents may be accessed at:

www.brunel.ac.uk/about/administration

Alternatively, copies of all documents can be obtained upon request from the University’s Quality and Standards Office. Your place will also be conditional upon you registering with the University, paying fees when due, meeting any offer conditions we advise to you in writing (such as qualifications required) and all necessary legal and other requirements to study here on the chosen course (such as criminal record checks, previous conviction details, health checks, immigration clearance and so on).

When you accept an offer of a place by the University, a legal contract is formed with the University on the basis of the terms and may be ended by the University if the relevant conditions are not met or our terms not complied with. The contract is governed by English law and subject to the jurisdiction of the English courts.

Please note that any living accommodation provided to you by the University (or any other party) will be subject to a separate contract and payment of accommodation fees under that separate contract. In entering into the contract, neither the student nor the University intends that any of the terms of the contract will be enforceable by any person not a party to it, by virtue of the Contracts (Rights of Third Parties) Act 1999.

If you have any queries regarding our terms or any relevant conditions, or would like to receive hard copies of any of the documents referred to above, please contact the University’s Quality and Standards Office. For a full summary of the University’s Terms and Conditions see:

www.brunel.ac.uk/about-this-website/terms

Important information to read before accepting an offer
DISCLAIMER

The University makes all reasonable efforts to deliver the programmes of study, research opportunities and other services and facilities described in this publication and other University documents. However, the University is entitled, if it reasonably considers it to be necessary (including in order to manage its resources and pursue its policy of continuous improvement appropriately):

• to suspend or discontinue programmes of study (for example, because a key member of staff is unwell or leaves the University);

• to make reasonable variations to the content and syllabus of programmes of study (including in relation to placements);

• to alter the timetable, location, number of classes and method of delivery of programmes of study, provided such alterations are reasonable; to make changes to the statutes, ordinances, regulations, policies and procedures that the University reasonably considers necessary (for example, in the light of changes in the law or the requirements of the University’s regulators);

• to combine programmes of study if the University reasonably considers this to be necessary (for example, because too few students apply to join a programme for it to be viable). In the unlikely event that the University discontinues or does not provide a programme of study or changes it significantly before it begins:

• the University will tell relevant individuals at the earliest possible opportunity;

• an individual will be entitled to withdraw his or her application by telling the University in writing;

• the University will make an appropriate refund of tuition fees and deposits paid.

The University will provide students with such tuition, learning support and other services and facilities as it considers appropriate, and with reasonable care and skill, but may vary what it provides from time to time (for example, the University may consider it desirable to change the way it provides library or IT support). The University will not be liable to you for any representations or descriptions in this prospectus, or in any other University documents, and/or made to you verbally, unless and to the extent confirmed in the terms as outlined above. The terms contain the entire agreement between you and the University in relation to you being a student at the University.

Nothing in the summary of terms including this disclaimer excludes any liability which it would be unlawful to exclude. The University will not be liable to you in any manner whatsoever for any failure or delay, or for the consequences of any failure or delay, in performance of any contract with you if it is due to any event beyond our reasonable control including, without limitation, strikes, lockouts or other industrial action or disputes (whether involving our workforce or any other party), acts of God, pandemic, quarantine or widespread illness (whether affecting our staff and/or student body or otherwise), governmental requisitioning, emergency planning or provision, war, protests, fire, flood, storm, tempest, explosion, an actual, suspected or threatened act of terrorism, riot, civil commotion, national emergencies, breakdown of plant or machinery, or default of suppliers or sub-contractors.
RELIGIOUS FESTIVALS
The University tries, where at all possible, to accommodate students’ wishes in observing religious festivals during examination periods.

DIVERSE BRUNEL (EQUALITY AND DIVERSITY STATEMENT)
Brunel University London values inclusiveness and confirms its continuing commitment to the principles of equality and diversity in employment, admission, and in its teaching, learning and research activities. The University endeavours to ensure that all members of staff, students, visitors and applicants for employment or study are treated on the basis of their merits and abilities and that no one suffers discrimination or disadvantage because of their race, age, disability, gender reassignment, marriage or civil partnership, pregnancy or maternity, religion or belief (including lack of belief), sex and sexual orientation.

In order to achieve an environment that is free from unlawful discrimination and which encourages everyone to contribute fully to its work the University will endeavour to ensure that it:

• eliminates discrimination, harassment, victimisation and any other conduct that is prohibited by or under the Equality Act 2010;

• advances equality of opportunity and fosters good relations between people who share a relevant protected characteristic and people who do not share it by:
  • removing or minimising disadvantages suffered by staff and students and taking steps to meet their needs;
  • encouraging staff and students to participate in public life or in any other activity in which participation is disproportionately low;
  • tackling prejudice and promoting understanding within the University.

For a copy of the University’s Equality and Diversity Statement and its supporting policies, visit: [www.brunel.ac.uk/about/administration/equality-and-diversity](http://www.brunel.ac.uk/about/administration/equality-and-diversity)

PERSONAL ACCIDENT AND LIABILITY
All registered students are covered by the University’s insurance for accidents that occur on campus. However, the University cannot accept responsibility for loss of, or any form of damage to, personal belongings of students.

ANTI-HARASSMENT STATEMENT
The University is committed to an inclusive working, studying and living environment that is free from discrimination, intimidation and in which dignity and respect are paramount. The University takes any issue of harassment, victimisation and discrimination seriously and would not tolerate, from any member of staff, student or third party, language(s) or behaviour(s) that are deemed to be offensive and/or discriminatory against its members of staff or students.
VISITING BRUNEL

Brunel open days, open evenings and campus tours are an excellent opportunity for you to come and meet our staff and students, and see for yourself what the University is really like.

We want to make sure that you make the most of your visit, so the Open Days and evenings are carefully structured to help you find out all you need to know about the University and the courses that interest you. Parents and guests are most welcome to attend. Prior booking is essential to ensure that everyone can be accommodated within the programme. Timings vary, but will be confirmed when we acknowledge your booking. Please note that there is limited parking on campus for Open Days and Campus Tours – check the Web for more details nearer the time.

To book your place please go to:

www.brunel.ac.uk/courses/open-days/postgraduate

call:

+44 (0)1895 265935

or email:

graduateschool@brunel.ac.uk

How to find us

The Brunel University campus is in Uxbridge, on the western edge of London. It is a short drive from the M4, M40 and M25 and has the added benefit of being part of the London Underground network. There are also a number of bus routes running close to the campus.

As part of Brunel’s commitment to sustainability, we have implemented a Travel Plan, one of the key aims of which is to reduce our carbon footprint by enabling students and staff to travel to the campus by alternative means with less dependency on cars.

Please use the maps on the following pages to help you find your way to Brunel, around the local area and around the campus.

BY UNDERGROUND

Uxbridge Station is approximately one mile from the campus and you should allow an hour for travel between central London (Baker Street) and Uxbridge on the Metropolitan Line. The Piccadilly Line also serves Uxbridge, but allow an extra half hour if using this line. Uxbridge bus station is on the right as you come through the underground turnstiles and the bus journey time to Brunel is about 10 minutes off peak and 15 minutes at peak times. See the next page for bus routes.

BY TRAIN

Trains run from London Paddington or the West (Bristol) to West Drayton. Catch the 222, U1 or the U3 bus to campus (see the next page for bus information).
BY CAR

Please note that there are a limited number of pay and display spaces available on campus. Pay and display parking is charged at 50p per hour.

The campus is easily accessible by public transport or please park in the shopping centres in Uxbridge (approx 1 mile from campus).

**M4:** Leave M4 at Junction 4, follow signs to Uxbridge (A408) and Brunel University. At the second roundabout turn right and then left at the traffic lights. Continue ahead and turn left at the mini roundabout. Follow the road past Hillingdon Hospital on your left, straight over the mini roundabout and turn right into Kingston Lane. At the first roundabout, turn left into the University.

**M40/M40:** At Swakeleys Roundabout take the B483 exit to Uxbridge. Follow the signs across two mini roundabouts. At a major roundabout bear left onto the A4020 (signposted to Brunel), then at the second set of traffic lights turn right into Kingston Lane. At the first roundabout, turn right into the University.

**M25:** (from the North or South) Join the M40 or M4 then see above.

BY BUS

**From Uxbridge tube station:**

- U3 (alight Brunel University, Cleveland Road)
- U1, U4 and U7 (alight Brunel University, Kingston Lane)
- 222 and U5 (alight Cowley Road and use the path via the University accommodation complex)

**From West Drayton railway station:**

- U1 (alight Brunel University, Kingston Lane)
- U3 (alight Brunel University, Cleveland Road)
- 222 (alight Cowley Road and use the path via the University accommodation complex)

**From Heathrow Central:**

- A10 “Heathrow Fast”, every 15 mins, with a journey time of about 25 mins – alight Hillingdon Road (stop name The Greenway) and use the footpath to campus

**From Stockley Park:**

- A10 “Heathrow Fast” as above, with a journey time of about 10 minutes

**Bus frequencies (weekdays)**

- A10 Heathrow Airport – Uxbridge: every 15 to 20 minutes
- U1 Ruislip – West Drayton: every 15 minutes
- U3 Heathrow Airport – Uxbridge: every 9-14 minutes
- U4 Hayes – Uxbridge: every 7-12 minutes
- U5 Hayes and Harlington – Uxbridge: every 8-13 minutes
- U7 Hayes – Uxbridge: every 30 minutes
- 222 Hounslow – Uxbridge: every 6-10 minutes

VISITOR PARKING FOR DISABLED BLUE BADGE HOLDERS

Accessible parking bays are available at various locations around the campus. Please collect a permit on arrival from Main Reception in the Eastern Gateway Building.

SAT-NAV USERS

Please enter the road address (Kingston Lane) instead of the postcode to ensure you are directed to the main entrance of the University. Using the postcode will take you to a road with no access to the campus.
The main University Reception can be found by following the path through the centre of the University to the Eastern Gateway Building.

The walk from Uxbridge tube and bus stations to Brunel University is approximately one mile.

From Uxbridge Tube Station skirt left around the Old Market past HSBC bank into Windsor Street.

At the bottom of Windsor Street, turn left and cross the dual carriageway via the light-controlled crossing.

Bear left and then walk straight on, avoiding the subway, into Whitehall Road.

It is then a 15 minute walk along Whitehall Road and over the crossroads into Cleveland Road. The main University Reception can be found by following the path through the centre of the University to the Eastern Gateway Building.
Please do not use UB8 3PH in any satnav devices as these service providers have not yet adjusted their directions to the new vehicular entrance in Kingston Lane.
Brunel University London
Kingston Lane
Uxbridge
UB8 3PH, UK
Tel 01895 274000
Fax 01895 232806
www.brunel.ac.uk

ACCOMMODATION

**Zone A**
1. Isambard Complex
   - A – Q
2. Galbraith Hall
3. Fleming Hall
4. Mill Hall

**Zone E**
- Lancaster Complex
  13. Borough Road Hall
  14. Maria Grey Hall
  15. Lancaster Suite
  16. Conference Office
  17. Southwark Hall

**Zone F**
- Saltash Hall
- Chepstow Hall
- Clifton Hall

**Bishop Complex**
- Bishop Hall
- Kilmorey Hall
- Lacy Hall
- St Margarets Hall
- Faraday Complex
- Lancaster Complex
- Gordon Hall

Isambard Complex
A. North
B. Meadow
C. Michael Bevis
D. Concourse
E. Stephen Bragg
F. West
G. Maurice Kogan
H. David Neave
I. Central
J. East
K. Runnymede
L. George Shipp
M. Trevor Slater
N. Shoreditch
O. Syd Urry
P. South
Q. Brian Winstanley
INDEX

A

Academic support ................................................17
Accommodation ..................................................19
Accounting and Business
Management MSc ..................................................46
Acoustic Waves and Allied Technologies
research opportunities ................................. 100
Advanced Electronic and
Electrical Engineering MSc ......................... 62
Advanced Engineering Design MSc ........ 38
Advanced Instrumentation and
Smart Systems MSc.............................................38
Advanced Manufacturing and
Enterprise Engineering
research opportunities ...............................101
Advanced Manufacturing and Enterprise
Engineering taught courses ....................38
Advanced Manufacturing Systems MSc ........ 38
Advanced Mechanical Engineering MSc ....78
Advanced Multimedia Design
and 3D Technologies MSc ......................... 62
Advanced Solidification Technology
research opportunities ............................102
Aerospace Engineering MSc ......................... 78
Ageing Studies
PGCert/PGDiploma/MSc ................................ 70
Anthropology of Childhood,
Youth and Education MSc ......................... 40
Anthropology of International
Development and Humanitarian
Assistance MSc ............................................40
Anthropology research opportunities ............103
Anthropology taught courses .................40
Applied Corporate Brand
Management MSc ...........................................46
Arts and culture at Brunel ......................... 24
The Arts Centre ........................................... 24
Assistive Technology Centre ......................17, 23
Automotive and Motorsport
Engineering MSc ...........................................79

B

Banking and Finance MSc ................................. 58
Bioengineering MRes ..................................... 42
Bioengineering research opportunities ........104
Bioengineering taught courses .................42
Biomedical Engineering MSc ................. 79
Biosciences research opportunities ............105
Biosciences taught courses ......................44
Brunel Integrated PhD programmes ..........30
Brunel International ........................................ 14
Building Services Engineering
Management MSc ....................................... 80
Building Services Engineering MSc ..........80
Building Services Engineering with
Sustainable Energy MSc ......................... 80
Business Finance MSc ................................. 58
Business Intelligence and Social Media MSc .... 46
Business research opportunities ..............106
Business Systems Integration
(with SAP Technology) MSc ................. 52
Business taught courses .............................. 46
<table>
<thead>
<tr>
<th>C</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Campus life..................................................................................</td>
<td>5</td>
</tr>
<tr>
<td>Campus map ..................................................................................</td>
<td>144</td>
</tr>
<tr>
<td>Campus tours..................................................................................</td>
<td>140</td>
</tr>
<tr>
<td>Careers and employability .........................................................</td>
<td>11</td>
</tr>
<tr>
<td>Children, Youth and International Development MA..........................</td>
<td>93</td>
</tr>
<tr>
<td>Civil Engineering research opportunities .......................................</td>
<td>107</td>
</tr>
<tr>
<td>Civil Engineering taught courses .................................................</td>
<td>50</td>
</tr>
<tr>
<td>Climate Change Impacts and Sustainability MSc...............................</td>
<td>66</td>
</tr>
<tr>
<td>Computer Centre and Media Services..............................................</td>
<td>17</td>
</tr>
<tr>
<td>Computer Communication Networks MSc...........................................</td>
<td>62</td>
</tr>
<tr>
<td>Computer Science research opportunities .......................................</td>
<td>108</td>
</tr>
<tr>
<td>Computer Science taught courses .................................................</td>
<td>52</td>
</tr>
<tr>
<td>Contemporary Performance Making MA.............................................</td>
<td>97</td>
</tr>
<tr>
<td>Counselling Service..........................................................................</td>
<td>21</td>
</tr>
<tr>
<td>CPE/Graduate Diploma in Law..........................................................</td>
<td>74</td>
</tr>
<tr>
<td>Creative Writing MA.........................................................................</td>
<td>54</td>
</tr>
<tr>
<td>Creative Writing research opportunities ......................................</td>
<td>109</td>
</tr>
<tr>
<td>Creative Writing taught courses ..................................................</td>
<td>54</td>
</tr>
<tr>
<td>Creative Writing: The Novel MA.....................................................</td>
<td>55</td>
</tr>
<tr>
<td>Cross-Cultural Psychology MSc......................................................</td>
<td>90</td>
</tr>
<tr>
<td>D</td>
<td></td>
</tr>
<tr>
<td>Data Science and Analytics MSc.....................................................</td>
<td>53</td>
</tr>
<tr>
<td>Design and Branding Strategy MA...................................................</td>
<td>56</td>
</tr>
<tr>
<td>Design research opportunities.......................................................</td>
<td>110</td>
</tr>
<tr>
<td>Design Strategy and Innovation MA................................................</td>
<td>57</td>
</tr>
<tr>
<td>Design taught courses ....................................................................</td>
<td>56</td>
</tr>
<tr>
<td>Digital Design and Branding MSc....................................................</td>
<td>62</td>
</tr>
<tr>
<td>Digital Games: Theory and Design MA............................................</td>
<td>69</td>
</tr>
<tr>
<td>Digital Service Design MSc.............................................................</td>
<td>53</td>
</tr>
<tr>
<td>Disability and Dyslexia Service.....................................................</td>
<td>23</td>
</tr>
<tr>
<td>Disabled Students’ Allowances (DSA)..............................................</td>
<td>23</td>
</tr>
<tr>
<td>Distributed Computing Systems Engineering MSc..............................</td>
<td>63</td>
</tr>
<tr>
<td>Documentary Practice MA...................................................................</td>
<td>68</td>
</tr>
<tr>
<td>E</td>
<td></td>
</tr>
<tr>
<td>Economics and Finance research opportunities..................................</td>
<td>111</td>
</tr>
<tr>
<td>Economics and Finance taught courses...........................................</td>
<td>58</td>
</tr>
<tr>
<td>Education MA..................................................................................</td>
<td>60</td>
</tr>
<tr>
<td>Education research opportunities..................................................</td>
<td>112</td>
</tr>
<tr>
<td>Education taught courses...............................................................</td>
<td>60</td>
</tr>
<tr>
<td>Electronic and Computer Engineering research opportunities............</td>
<td>113</td>
</tr>
<tr>
<td>Electronic and Computer Engineering taught courses........................</td>
<td>62</td>
</tr>
<tr>
<td>Embedded Systems MSc.....................................................................</td>
<td>63</td>
</tr>
<tr>
<td>Engineering Management MSc.........................................................</td>
<td>38</td>
</tr>
<tr>
<td>English language courses..................................................................</td>
<td>14</td>
</tr>
<tr>
<td>English language requirements.......................................................</td>
<td>14</td>
</tr>
<tr>
<td>English Literature MA.....................................................................</td>
<td>64</td>
</tr>
<tr>
<td>English research opportunities.....................................................</td>
<td>114</td>
</tr>
<tr>
<td>English taught courses....................................................................</td>
<td>64</td>
</tr>
<tr>
<td>Environment research opportunities...............................................</td>
<td>115</td>
</tr>
<tr>
<td>Environment taught courses...........................................................</td>
<td>66</td>
</tr>
<tr>
<td>Environmental Science – Legislation and Management MSc................</td>
<td>66</td>
</tr>
<tr>
<td>Environmental Science – Pollution and Monitoring MSc..................</td>
<td>67</td>
</tr>
<tr>
<td>Evolutionary Psychology MSc..........................................................</td>
<td>90</td>
</tr>
<tr>
<td>Experimental Music MA/MMus............................................................</td>
<td>83</td>
</tr>
<tr>
<td>F</td>
<td></td>
</tr>
<tr>
<td>Faith/Religion..................................................................................</td>
<td>21</td>
</tr>
<tr>
<td>Fees and funding.............................................................................</td>
<td>32</td>
</tr>
<tr>
<td>Film and TV research opportunities...............................................</td>
<td>116</td>
</tr>
<tr>
<td>Film and TV taught courses...........................................................</td>
<td>68</td>
</tr>
<tr>
<td>Finance and Accounting MSc............................................................</td>
<td>58</td>
</tr>
<tr>
<td>Finance and Investment MSc.............................................................</td>
<td>59</td>
</tr>
<tr>
<td>Financial Mathematics MSc...............................................................</td>
<td>77</td>
</tr>
<tr>
<td>Functional Neuroimaging MSc...........................................................</td>
<td>90</td>
</tr>
<tr>
<td>INDEX</td>
<td>INDEX</td>
</tr>
<tr>
<td>-------</td>
<td>-------</td>
</tr>
<tr>
<td>G</td>
<td>L</td>
</tr>
<tr>
<td>Games Design research opportunities .......... 117</td>
<td>The Library ...................................................... 16</td>
</tr>
<tr>
<td>Games Design taught courses ..................... 69</td>
<td>Living off campus ........................................ 19</td>
</tr>
<tr>
<td>Global Supply Chain Management MSc ............ 47</td>
<td>London ......................................................... 5</td>
</tr>
<tr>
<td>Globalisation and Governance MA ............... 86</td>
<td>Law research opportunities ................................. 121</td>
</tr>
<tr>
<td>The Graduate School ................................ 12</td>
<td>Law taught courses ........................................... 74</td>
</tr>
<tr>
<td>H</td>
<td>M</td>
</tr>
<tr>
<td>Halls of residence .................................. 19</td>
<td>MA in Teaching (MAT) ......................................... 60</td>
</tr>
<tr>
<td>Health Economics research opportunities ....... 118</td>
<td>Management MSc .............................................. 48</td>
</tr>
<tr>
<td>Health Information for Clinical Management PGCert/PGDip/MSc .......... 71</td>
<td>Marketing MSc ................................................. 48</td>
</tr>
<tr>
<td>Health Studies research opportunities .......... 119</td>
<td>Master of Laws (LLM Law) ................................. 76</td>
</tr>
<tr>
<td>Health Studies taught courses ................... 70</td>
<td>Master’s in Business Administration (MBA) ........ 49</td>
</tr>
<tr>
<td>How to apply .......................................... 27, 29</td>
<td>Materials Characterisation and Analysis research opportunities .......... 122</td>
</tr>
<tr>
<td>Human Resource and Employment Relations MSc .......... 47</td>
<td>Materials Processing research opportunities .......... 123</td>
</tr>
<tr>
<td>Human Resource Management MSc ............... 47</td>
<td>Mathematics research opportunities ........................ 124</td>
</tr>
<tr>
<td>I</td>
<td>L</td>
</tr>
<tr>
<td>Information Systems Management MSc .......... 53</td>
<td>Mechanical/Aerospace Engineering research opportunities .......... 125</td>
</tr>
<tr>
<td>Innovative courses ................................... 9</td>
<td>Mechanical/Aerospace Engineering taught courses .......... 78</td>
</tr>
<tr>
<td>Integrated Product Design MSc .................. 57</td>
<td>Media and Communications MSc ......................... 95</td>
</tr>
<tr>
<td>Intellectual Property Law PG Certificate ........ 74</td>
<td>Media and Public Relations MA ......................... 68</td>
</tr>
<tr>
<td>Intelligence and Security Studies MA .......... 87</td>
<td>Medical Anthropology MSc ....................... 41</td>
</tr>
<tr>
<td>International Business MSc ..................... 48</td>
<td>Medical Centre ................................................. 21</td>
</tr>
<tr>
<td>International Commercial Law LLM ............ 75</td>
<td>The Meeting House ........................................... 21</td>
</tr>
<tr>
<td>International Financial Regulation and Corporate Law LLM ...................... 75</td>
<td>Military History MA ......................................... 88</td>
</tr>
<tr>
<td>International Human Rights Law LLM .......... 76</td>
<td>Modern World History MA ................................. 88</td>
</tr>
<tr>
<td>International Intellectual Property Law LLM .... 76</td>
<td>Molecular Medicine and Cancer Research MSc .......... 45</td>
</tr>
<tr>
<td>International Journalism MA .................... 73</td>
<td>Molecular Medicine MSc .................................. 44</td>
</tr>
<tr>
<td>International Relations MA ...................... 87</td>
<td>Music awards ............................................... 24</td>
</tr>
<tr>
<td>International students ......................... 14</td>
<td>Music taught courses ....................................... 82</td>
</tr>
<tr>
<td>J</td>
<td>Music research opportunities ..................... 126</td>
</tr>
<tr>
<td>Journalism MA ....................................... 73</td>
<td>N</td>
</tr>
<tr>
<td>Journalism research opportunities .............. 120</td>
<td>Neurorehabilitation MSc .................................. 85</td>
</tr>
<tr>
<td>Journalism taught courses ...................... 72</td>
<td></td>
</tr>
</tbody>
</table>
O
Occupational Therapy (Pre-Registration) MSc  84
Occupational Therapy MSc  84
Occupational Therapy research opportunities  127
Occupational Therapy taught courses  84
Oil and Gas Engineering MSc  39
Open Days  2

P
PGCert Primary Education  60
PGCert Secondary Education  61
Physiotherapy (Pre-Registration) MSc  85
Physiotherapy research opportunities  128
Physiotherapy taught courses  85
Politics and History research opportunities  129
Politics and History taught courses  86
Pre-Master’s courses  15
Professional doctorates  30
Project and Infrastructure Management MSc  50
Psychoanalysis and Contemporary Society MA  91
Psychological and Psychiatric Anthropology MSc  41
Psychological Sciences MSc (approved in principle)  91
Psychology research opportunities  130
Psychology taught courses  90
Psychology, Health and Behaviour MSc  91
Public Affairs and Lobbying MSc  89
Public Health and Health Promotion MSc  71

Q
Quality programmes  9

R
Renewable Energy Engineering MSc  80
Research degree information  28
Research degrees by subject area  99

S
Scholarships  34
Social and Cultural Research MSc  95
Social Anthropology MRes  41
Social Work (PGCert)
Post-qualifying framework  93
Social Work MA  93
Social Work research opportunities  131
Social Work taught courses  92
Sociology and Communications research opportunities  132
Sociology and Communications taught courses  94
Specialist Community Public Health Nursing MSc and PGDip  71
Sport and Exercise Psychology MSc  96
Sport at Brunel  25
Sports Scholarships  25
Sport, Health and Exercise Sciences MSc  96
Sport, Health and Exercise Sciences research opportunities  133
Sport, Health and Exercise Sciences taught courses  96
Structural Integrity MSc  81
Structural Engineering MSc  50
The Student Centre  20
Study resources  16
Summary of Terms  136
Support, health and wellbeing  20
Sustainable Electrical Power MSc  63
Sustainability, Entrepreneurship and Design MSc  67
Sustainable Energy: Technologies and Management MSc  81
T
Taught course information........................................ 26
Taught courses by subject area ................................. 37
The local area ............................................................ 5
Theatre research opportunities .................................. 134
Theatre taught courses .............................................. 97
Toxicology and Risk Assessment MSc ..................... 67
Travel ..................................................................... 5, 140

V
Visiting Brunel ........................................................... 140

W
Water Engineering MSc ........................................... 50
Welcome to Brunel ................................................... 4
West London Assessment Centre (WLAC) ............... 23
Wireless Communication Systems MSc ................. 63
Where is Brunel? ..................................................... 140
Working while you study ....................................... 11
World class research .............................................. 8
Officers of the University

CHANCELLOR
Sir Richard Sykes

PRO-CHANCELLOR
Nazir Afzal

VICE-CHANCELLOR AND PRESIDENT
Professor Julia Buckingham

DEPUTY VICE-CHANCELLOR (ACADEMIC)
Professor William Leahy

DEPUTY VICE-CHANCELLOR (EDUCATION AND INTERNATIONAL)
Professor Andrew George

DEPUTY VICE-CHANCELLOR (RESEARCH)
Professor Geoff Rodgers

Credits

Edited by Emma Filtness, Publications Officer
Photography by Sally Trussler, Neil Graveney
Design by Andrew Hill, Brunel Commercial Print and Design
Printed by Purbrooks

Our thanks, too, to all the staff, students, graduates, schools, hospitals, companies and organisations featured in this prospectus.

This information is correct at time of going to press. For up-to-date information please check the website (www.brunel.ac.uk). Every effort has been made to ensure the accuracy of the information in this prospectus and the University will take all reasonable action to deliver these services in accordance with the descriptions set out in it. However, the University reserves the right to vary these services, using all reasonable efforts to offer a suitable alternative. All cost, rates and prices stated in this prospectus are subject to amendment and should be taken as a guide only.