



THE UNIVERSITY  
*of* EDINBURGH

# Medicine

Postgraduate Opportunities 2018



Influencing the world since 1583

“Edinburgh isn’t so much a city, more a way of life ... I doubt I’ll ever tire of exploring Edinburgh, on foot or in print.”

**Ian Rankin**  
Best-selling author and alumnus

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# Influencing the world since 1583

**15 Nov 2017**  
**Postgraduate Open Day**

[www.ed.ac.uk/postgraduate-open-day](http://www.ed.ac.uk/postgraduate-open-day)

For more than 400 years the University of Edinburgh has been changing the world. Our staff and students have explored space, won Nobel Prizes and revolutionised surgery. They've published era-defining books, run the country, made life-saving breakthroughs and laid the foundations to solve the mysteries of the universe.

Our distinguished alumni include NASA astronaut Piers Sellers, former MI5 Director-General Dame Stella Rimington, Olympians Sir Chris Hoy and Katherine Grainger and historical greats such as philosopher David Hume, suffragist Chrystal Macmillan, who founded the Women's International League for Peace and Freedom, and physicist and mathematician James Clerk Maxwell.

#### International collaboration

An internationally renowned centre for academic excellence, we forge world-class collaborations with partners such as the California Institute of Technology (Caltech), Stanford University, the University of Melbourne, Peking University, the University of Delhi and the University of KwaZulu-Natal. As a member of the League of European Research Universities and the Coimbra Group, we link up with leading institutions across Europe.

#### Linking research and commerce

We were one of the first UK universities to develop commercial links with industry, government and the professions. Edinburgh Innovations promotes and commercialises our research excellence and can assist you in taking the first step to market, through collaborative research, licensing technology or consultancy.

#### Enhancing your career

We are committed to embedding employability in your University experience and have one of the Russell Group's best track records for graduate employment. From volunteering schemes to our sector-leading Careers Service, we provide you with opportunities to develop your skills, knowledge and experience, giving you an edge in the competitive job market.

## TOP 50

We're consistently ranked one of the top 50 universities in the world. We're 23<sup>rd</sup> in the 2018 QS World University Rankings.

## 4<sup>TH</sup>

We're ranked fourth in the UK for research power, based on research quality and breadth.\*

## 83%

The majority of our research – 83 per cent – is considered world leading or internationally excellent.\*

## 32<sup>ND</sup>

We're ranked 32<sup>nd</sup> in the world for the employability of our graduates.†

## £268m

In 2015/16 we won £268 million in competitive research grants.

## 21

We're associated with 21 Nobel Prize winners, including physicists Peter Higgs, Charles Barkla and Max Born, medical researcher Peter Doherty and biologist Sir Paul Nurse.

## 13<sup>TH</sup>

We're ranked 13<sup>th</sup> in the world's most international universities.‡ Students from two-thirds of the world's countries study here.

\* Research Excellence Framework (REF) 2014

† Latest Emerging Global Employability University Ranking

‡ Times Higher Education: The World's Most International Universities 2017

# Online learning masters programmes

The University of Edinburgh is the largest provider of postgraduate online learning programmes in the Russell Group and our flexible, online learning master of science (MSc) programmes are making a difference to a new generation of postgraduate students around the world.

Edinburgh Medical School has been offering innovative postgraduate programmes online to medical and health-related professionals since 2005. Today there are 28 online programmes to choose from and our portfolio is expanding all the time. In addition to MSc programmes, we also offer Postgraduate Diploma (PgDip) and Postgraduate Certificate (PgCert) programmes. With more than 1,000 online students in our School, we take the delivery of teaching online as seriously as we do on campus. Every programme has an experienced team of programme director, coordinator and administrator, and each student has a personal tutor, so you will be fully supported in all aspects of your student experience.

The online, part-time format is particularly suited to students already in full or part-time employment or with other professional or personal commitments, and allows a flexible learning environment that can be adapted to suit individual needs. You can choose to study at a time and in a place that suits you, saving relocation costs.

Our online learning technology is fully interactive and allows you to communicate with our highly qualified teaching staff from the comfort of your own home or workplace. We give you as much access to our staff as if you were here in Edinburgh. You will not only have access to Edinburgh's excellent resources, but will also become part of a supportive online community, bringing together students and tutors from around the world and enabling you to have the 'Edinburgh experience' wherever you are in the world. Many of our programmes have collaborative relationships with other academic and charitable organisations, giving you a unique opportunity to interact and share knowledge with the widest range of experts in a particular field. When you consider the benefits of flexible online study, it's not surprising that even locally-based professionals choose this option.

## Short course options

Some of our online learning programmes in this section have the option to be taken as intermittent study, allowing you to complete a masters programme in up to six years.

In addition to compulsory courses, you can choose option courses from a variety of programmes, allowing you to tailor your programme to suit your individual interests and requirements, and enhance your career opportunities in an increasingly competitive marketplace.

Short course option

www.ed.ac.uk/pg/890

## Anatomical Sciences



PgDip up to 4 yrs PT. PgCert up to 2 yrs PT

### Programme description

This programme is a unique opportunity for students who want to explore aspects of human anatomy through the flexibility of an online learning programme. It is ideal for medical, biomedical, allied health professionals and those in holistic practice with an interest in human anatomy. The programme draws upon the highly regarded teaching and research staff within the University.

The programme is designed to introduce and develop student knowledge in the anatomical sciences; in addition it is aimed at renewing and strengthening communication and IT knowledge and skills.

### Programme structure

The programme consists of courses that draw on material currently used in the on-campus masters programme in Human Anatomy and our medical programme. Each of the taught courses has a set of modules that are released to students on a weekly basis from our virtual learning environment. The modules consist of the following structure:

- a recorded lecture to introduce the topic;
- interactive content (video/animated/narrative);
- a set of resource links to course reading – library and research;
- a discussion board facilitated by a tutor; and
- a set of multiple choice questions which students can take at the end of each week – these are formative and do not contribute to the final mark.

At the end of each module there is a further set of multiple choice questions which students take; these contribute to the final mark.

### CERTIFICATE COURSES PREVIOUSLY OFFERED INCLUDE:

*Fundamental Human Anatomy 1; Fundamental Human Anatomy 2; Embryology; Neuroanatomy.*

### DIPLOMA COURSES PREVIOUSLY OFFERED INCLUDE:

*Advanced Human Anatomy 1; Advanced Human Anatomy 2; Imaging; Histology.*

### Career opportunities

This programme has been designed not only to help you gain a highly regarded qualification but also to provide you with a set of major transferable skills, which will be relevant to your current career, further study or simply increase your long-term career prospects. It is ideal for those working in the professions allied to medicine, including radiography, physiotherapy and sports science.

### Entry requirements

A UK 2:1 honours degree or its international equivalent ([www.ed.ac.uk/international/graduate-entry](http://www.ed.ac.uk/international/graduate-entry)), in a medical, biomedical, or relevant bioscience topic. We may also consider your application if you are in a profession allied to medicine or have relevant work experience; please contact us to check before you apply. You may be admitted to certificate level only in the first instance.

### English language requirements

See page 54.

### Fees and funding

For fees see page 54 and for funding information see page 56.

**Programme Director** Gordon Findlater

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www.ed.ac.uk/pg/646

## Biodiversity, Wildlife & Ecosystem Health



MSc/PgDip/PgCert 3 yrs, 2 yrs or 1 yr PT

### Programme description

This online learning programme provides an interdisciplinary approach to conservation management. It draws together expertise from within the University's Global Health Academy and partner global associates to deliver first-class teaching and research in the field of biodiversity, wildlife and ecosystem health. This programme is affiliated with the University's Global Academies: [www.ed.ac.uk/global-academies](http://www.ed.ac.uk/global-academies)

### Programme structure

The programme is delivered using innovative online learning. It involves a mixed teaching approach which includes independent study and reflection as well as online discussion and group project work. More information: [www.web.mvm.ed.ac.uk/courseinfo.html](http://www.web.mvm.ed.ac.uk/courseinfo.html)

### YEAR 1: CERTIFICATE COURSES PREVIOUSLY OFFERED INCLUDE:

You will study the following areas: evolution and biodiversity; ecosystem health and sustainability; ecosystems and governance; and conservation ethics.

### YEAR 2: DIPLOMA COURSES PREVIOUSLY OFFERED INCLUDE:

You will choose six option courses from the following\*: *Climate Change: Policy and Practice; Communication and Public Engagement of Conservation; Conservation Genetics; Environmental Law; Ex-Situ Wildlife Management; Extreme and Fragile Ecosystems; An Introduction to Transboundary Diseases; Introduction to GIS and Spatial Data Analysis; Invasive Non-Native Species; Land Use and Food Security; Managing Ecosystems for Human Health and Wellbeing; The Marine Environment; The Modern Zoo; The Use of Artificial Reproductive Technologies in Threatened Species; Water and Sanitation; Wildlife Crime and Forensic Investigation; Wildlife, Animal Health and Environment; Wildlife Tourism; Zoonotic Disease.*

\*Subject to minimum student numbers and timetabling.

### YEAR 3: MASTERS COURSES PREVIOUSLY OFFERED INCLUDE:

You will complete your own choice of dissertation of 10,000-15,000 words.

Our award-winning online learning technology is fully interactive and enables you to communicate with our highly qualified teaching staff from the comfort of your own home or workplace.

### Career opportunities

This programme has been designed to help you find work in environmental, intergovernmental, national and international agencies, as well as lobby groups, NGOs and other research groups.

### Entry requirements

A UK 2:1 honours degree, or its international equivalent ([www.ed.ac.uk/international/graduate-entry](http://www.ed.ac.uk/international/graduate-entry)), in a zoological, biological, environmental, veterinary or a relevant bioscience topic. We may also consider your application if your degree is in an unrelated discipline but you have relevant work experience; please contact us to check before you apply. You may be admitted to certificate level only in the first instance.

### English language requirements

See page 54.

### Fees and funding

For fees see page 54 and for funding information see page 56.

**Programme Director** Sharron Ogle

**Email** [web.onlinemsc@ed.ac.uk](mailto:web.onlinemsc@ed.ac.uk)

www.ed.ac.uk/pg/246

## Clinical Education



MSc/PgDip/PgCert 3 yrs, 2 yrs or 1 yr PT

### Programme description

Our Clinical Education programme takes advantage of our world-renowned expertise to enhance your abilities to teach and assess students in a clinical environment. This is an ideal programme for those with an educational role in relation to healthcare professionals and veterinary practitioners, including doctors, nurses, dental practitioners, those involved with veterinary education or associated scientists (biomedical or social).

Our aim is to help you reflect upon, and share thoughts about, your practice, while increasing your understanding of how to apply educational theories and evidence from the literature. As a result you will learn the knowledge and skills you need to deliver, develop and research high-quality clinical education in your own discipline. This programme is affiliated with the University's Global Health Academy (see page 53):

[www.ed.ac.uk/global-health](http://www.ed.ac.uk/global-health)

### Programme structure

There are three courses at the certificate stage and three at the diploma stage. This is followed by your thesis in the third year. We deliver lectures and tutorials online and you will be expected to use self-directed learning, peer-discussion boards, tutorials, peer presentations and other similar e-learning activities to help engage with and get the most from the course materials.

#### YEAR 1: CERTIFICATE COURSES PREVIOUSLY OFFERED INCLUDE:

*Principles of Teaching and Learning; Assessment, Examinations and Standard Setting; The Curriculum.*

#### YEAR 2: DIPLOMA COURSES PREVIOUSLY OFFERED INCLUDE:

*Appraising and Developing the Individual; Research in Clinical Education; Policy, Leadership, Management and Evaluation; Quantitative Research in Clinical Education; Current Issues in Clinical Education.* Please note that courses will only run with a minimum of 10 students. You will be notified in advance if an alternative course choice is required.

#### YEAR 3: MASTERS COURSES PREVIOUSLY OFFERED INCLUDE:

A research report of approximately 15,000 words.

### Career opportunities

This programme has been designed to enhance your prospects as a teacher and instructor in human or animal health. It promotes high quality clinical education by helping participants reflect upon and share insights about their practice, to understand and apply educational theories and evidence from the literature, and to help participants develop a good solid foundation in clinical education and educational research upon which they can continue to build their own academic career.

### Entry requirements

A primary clinical qualification, such as an MBChB, BVS, BDS, Bachelor of Nursing, or a UK 2:1 honours degree in a relevant subject, or their international equivalents ([www.ed.ac.uk/international/graduate-entry](http://www.ed.ac.uk/international/graduate-entry)). We will also consider your application if you have a biomedical science qualification or a non-university professional qualification, such as Registered General Nurse, with appropriate clinical experience. You must be currently teaching in clinical or educational settings.

### English language requirements

See page 54.

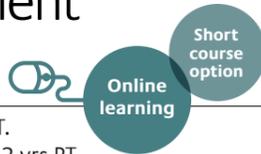
### Fees and funding

For fees see page 54 and for funding information see page 56.

**Programme Director** Gill Aitken  
**Email** [clinicaleducation@ed.ac.uk](mailto:clinicaleducation@ed.ac.uk)

www.ed.ac.uk/pg/820

## Clinical Management of Pain



MSc up to 6 yrs PT. PgDip up to 4 yrs PT. PgCert up to 2 yrs PT. PgProfDev up to 2 yrs PT

### Programme description

Through a solid, theoretical understanding of the biological, psychological and social concepts that drive, develop and maintain pain, you will explore the multifaceted nature of pain and its effects. You will gain an advanced understanding of the specialist area of pain management including the biological and physiological concepts needed for the effective assessment and management of patients in pain. You will gain the knowledge, understanding and evaluative skills to provide advanced clinical care so as to improve outcomes for patients.

### Programme structure

You will progress from PgCert to PgDip to MSc as you successfully complete each year of coursework. The PgCert courses are compulsory and provide the theoretical foundation for PgDip and MSc. Beyond the PgCert you will have the opportunity to broaden your understanding of specialist areas of pain management and to develop the knowledge required to meet specific professional and academic needs. The PgDip allows you to select from a number of options that are relevant to your employment prospects, personal interests and career goals, and the MSc allows you to explore a specialist area of interest in the form of a dissertation or structured project.

If you are interested in pain with a sub-specialty focus, there is the option to study pain management with a headache management 'stream'. On successful completion, you would be awarded a PgDip or MSc in the Clinical Management of Pain and Headache Disorders.

### Career opportunities

Graduates will have gained skills suitable for employment in areas including research establishments; educational facilities; government or political organisations; charity and welfare organisations, and within industry. A postgraduate qualification will also provide additional knowledge to supplement and support an ongoing clinical career.

### Postgraduate Professional Development

If you are looking for a shorter course option, or are unsure if online postgraduate study is for you, we offer online credit-bearing courses which run for five weeks at a time. These credits will be recognised in their own right at postgraduate level, or may be put towards gaining a higher award, such as a PgCert, PgDip or MSc.

### Entry requirements

A UK 2:1 honours degree, or its international equivalent ([www.ed.ac.uk/international/graduate-entry](http://www.ed.ac.uk/international/graduate-entry)), in medicine (MBChB or equivalent), nursing, dentistry, psychology, occupational therapy, physiotherapy, pharmacology or any other allied healthcare profession involved in the management of pain. We will also consider your application if you have a professional qualification, such as RGN, with appropriate clinical experience.

### English language requirements

See page 54.

### Fees and funding

For fees see page 54 and for funding information see page 56.

**Programme Director** Sarah Henderson  
**Email** [sarah.henderson@ed.ac.uk](mailto:sarah.henderson@ed.ac.uk)

Key FT: Full time. PT: Part time.

www.ed.ac.uk/pg/891

## Clinical Microbiology & Infectious Diseases



MSc up to 6 yrs PT. PgDip up to 4 yrs PT. PgCert up to 2 yrs PT. PgProfDev up to 2 yrs PT

### Programme description

This programme is aimed at junior doctors currently undergoing, or about to undertake, specialty training in an infection discipline and is open to trainees in the UK and worldwide. It will also be attractive to those who have completed their training but wish to fulfil continuing medical education requirements or who wish to obtain a formal qualification in clinical microbiology and infectious diseases.

The programme is aligned with JRCPTB and RCPATH training in infection disciplines: combined infection training and higher specialty training in infectious diseases, medical microbiology and medical virology. It is designed to support trainees/specialists in preparation for FRCPath Part 1/diploma in infection, infection specialty end-of-training assessments and hospital-based practice.

You will have access to key texts and research bases and will have direct contact with leading clinicians and clinical scientists, providing a repository of information on infection disciplines.

### Programme structure

This programme is designed to meet the needs of trainees and specialist practitioners from all over the world.

#### CERTIFICATE COURSES PREVIOUSLY OFFERED INCLUDE:

*Introduction to Immunology; Science and Biology of Bacteria; Science and Biology of Viruses; Science and Biology of Fungi, Parasites and Prions; Laboratory Practice in Microbiology, Virology and Serology; Anti-infective Therapy and Resistance.*

#### DIPLOMA COURSES PREVIOUSLY OFFERED INCLUDE:

*Immunopathology; Molecular Diagnostics of Infection; Community Acquired Infections and Public Health; Infection Prevention & Control; HIV Infection and Other Immune-compromised Patients; Clinical Syndromes and Infection; The Returning Traveller: Diagnosis, Investigation and Management of Imported Infection; Bioinformatics and Study Design in Infectious Diseases; Emerging Infectious Diseases.*

#### MASTERS COURSES PREVIOUSLY OFFERED INCLUDE:

*Research in Infection Medicine*, written reflective element (project).

### Career opportunities

This unique programme will offer the student the knowledge and skills required to enhance their career progression in clinical or academic medicine. The programme will offer an alternative to traditional classroom-based research training for those candidates who do not wish to take time away from their professional commitments.

### Entry requirements

A UK 2:1 honours degree, or its international equivalent ([www.ed.ac.uk/international/graduate-entry](http://www.ed.ac.uk/international/graduate-entry)), in a biomedical, medical, public health or relevant bioscience topic. We may also consider your application if you have relevant work experience; please contact us to check before you apply. You may be admitted to certificate level only in the first instance.

### English language requirements

See page 54.

### Fees and funding

For fees see page 54 and for funding information see page 56.

**Programme Administrator**  
**Tel** +44 (0)131 242 9437  
**Email** [cmid@ed.ac.uk](mailto:cmid@ed.ac.uk)

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www.ed.ac.uk/pg/860

## Clinical Ophthalmology



ChM 2-4 yrs PT

### Programme description

This programme is jointly offered by the University of Edinburgh and the Royal College of Surgeons of Edinburgh, and leads to the award of Master of Surgery (ChM). It has been developed with the support of NHS Education for Scotland (NES) and is designed to support advanced ophthalmology trainees in the UK and internationally. It provides advanced training for medical and surgical ophthalmologists preparing for the fellowship examinations of the Royal College of Surgeons of Edinburgh (RCSEd) and the Royal College of Ophthalmologists (RCOphth) and those approaching consultancy.

### Programme structure

The programme runs on a semester basis and involves approximately 10 hours of study each week in a flexible, modular manner. Compulsory courses in each area of clinical ophthalmology are aligned to the curricula of the RCSEd and FRCOphth. Knowledge and understanding will be assessed with a formal MCQ exam designed to replicate the trainees' upcoming exit exams.

#### YEAR 1 COURSES PREVIOUSLY OFFERED INCLUDE:

*Ophthalmology 1; Core Ophthalmology; Applied Basic Sciences, Examination and Surgical Strategies; Clinical Decision Making, Therapeutics, Avoiding and Managing Complications; Diagnostics and Technologies in Clinical Practice; Acute Ophthalmology, Trauma and Advanced Surgical Techniques.*

#### YEAR 2 COURSES PREVIOUSLY OFFERED INCLUDE:

*Ophthalmology 2; Core Academic Activity (Reflective ePortfolio); Examination (MCQ and EMI); Specialist Academic Activity (Research Project).*

### Career opportunities

The ChM programme is designed to follow the RCSEd and FRCOphth curricula and prepare the advanced trainee for their exit professional examinations. The award of ChM will highlight your commitment to continuing professional development and will ensure a competitive edge when applying for consultant positions.

### Entry requirements

A medical degree (MBChB or equivalent) recognised by the General Medical Council. You should also be based in a supervised training programme.

UK applicants should have completed initial specialist training (ST 1/2) or core training (CT 1/2) and early intermediate training (ST 3), and will normally be starting their intermediate training (ST 4).

Applicants from outside the UK, and applicants who are not in a recognised training programme, must demonstrate that the course is directly relevant to their ophthalmic surgery training.

You should have completed a minimum of 24 months of core training in the surgical specialties and 18 months of specialty training in ophthalmology before enrolling.

We will also consider your application if you are an established, independently practising ophthalmologist.

### English language requirements

See page 54.

### Fees and funding

For fees see page 54 and for funding information see page 56.

**ChM Programme Administration**  
**Tel** +44 (0)131 527 3496  
**Email** [chminfo@rcsed.ac.uk](mailto:chminfo@rcsed.ac.uk)

[www.ed.ac.uk/pg/809](http://www.ed.ac.uk/pg/809)

## Clinical Trials



Online learning

Short course option

MSc up to 6 yrs PT. PgDip up to 4 yrs PT.  
PgCert up to 2 yrs PT. PgProfDev up to 2 yrs PT

### Programme description

This programme will provide a knowledge and understanding of the key elements and principles of clinical trial design, delivery and analysis, in addition to the principles of GCP and their practical implementation in clinical trials. It is suitable for graduates of medicine, nursing, pharmacy, life sciences and other allied disciplines involved in clinical trials.

This programme will support the demand for appropriately qualified investigators to lead clinical trials of all phases. It covers commercial aspects of drug discovery and development, trial and project management, statistics and data management, regulations and ethics, imaging, medical devices and complex interventions.

### Programme structure

This programme is made up of compulsory and option courses.

#### COMPULSORY COURSES PREVIOUSLY OFFERED INCLUDE:

*Clinical Trials Foundation Course; Introduction to Clinical Trials; Good Clinical Practice, Ethics and Regulatory Issues.*

#### OPTION COURSES PREVIOUSLY OFFERED INCLUDE:

*Principles of Clinical Trial Management; Clinical Trials in Special Populations; Patient and Public Involvement; Pharmacovigilance; Study Design; Monitoring and Audit; Translational Imaging and Clinical Trials; Commercial Aspects of Drug Discovery; MSc Dissertation or Clinical Trials e-Portfolio.*

You will be supported as an active member of a vibrant online community where clearly defined learning outcomes are facilitated by tasks and materials that foster active, relevant and collaborative learning, supported by the purposeful use of digital media and online technology.

### Career opportunities

The programme aims to equip students with the necessary knowledge and skills to be a leader of clinical trials, supplementing and extending any undergraduate training and work experience. The programme will also provide an important step towards gaining employment in either the commercial or non-commercial/industrial sectors. The MSc programme is designed to highlight the candidate's commitment to continual professional development and will ensure a competitive edge when applying for future employment positions.

### Entry requirements

A medical degree (MBChB or equivalent), or a UK 2:1 honours degree or above, or its international equivalent ([www.ed.ac.uk/international/graduate-entry](http://www.ed.ac.uk/international/graduate-entry)). We may also consider your application if you have 3-5 years' relevant work experience; please contact us to check before you apply. You may be admitted to certificate level only in the first instance.

### English language requirements

See page 54.

### Fees and funding

For fees see page 54 and for funding information see page 56.

**Programme Director** Stuart Ralston

**Email** [mscct@ed.ac.uk](mailto:mscct@ed.ac.uk)

[www.ed.ac.uk/pg/870](http://www.ed.ac.uk/pg/870)

## Family Medicine



Online learning

MFM 2 yrs PT

### Programme description

This programme provides high-quality, medical education in family medicine by online learning, to an international audience in India and other partner countries where health systems are beginning to identify family medicine as a clinical speciality.

The programme will give doctors a comprehensive understanding of the principles, processes and practices of family medicine, and the essential medical knowledge and management skills for the most common presenting health issues.

It is based on the competencies identified by the World Association of Family Medicine:

- an understanding of health promotion, prevention, diagnosis, treatment and care within a district hospital/health centre/community setting;
- skills in leadership and management of primary healthcare teams; and
- an understanding of continuity and contextualisation of care of the individual, the family and the community.

### Programme structure

This online learning programme is delivered with the support of our partner institution CMC Vellore, India. In addition to the courses delivered online and a dissertation, the programme requires a total of 30 days each year in residency at a rural hospital.

#### COURSES PREVIOUSLY OFFERED INCLUDE:

There are seven compulsory courses, which cover family medicine, reflective practice and principles of general practice, and evidence-based medicine for rural family medicine in rural settings.

### Career opportunities

This programme will shape practitioners to become quality family doctors in rural and peri-urban areas in low income countries.

### Entry requirements

A medical degree (MBChB or equivalent). You must be working in India or other low income country and be committed to continue working in poorly resourced areas.

### English language requirements

See page 54.

### Fees and funding

For fees see page 54 and for funding information see page 56.

**Programme Contact** Jo Ntawuyamara-Marshall

**Email** [family.medicine@ed.ac.uk](mailto:family.medicine@ed.ac.uk)

www.ed.ac.uk/pg/697

## General Surgery



ChM 2 yrs PT

### Programme description

This two-year, part-time masters programme is offered jointly by the Royal College of Surgeons of Edinburgh and the University of Edinburgh, and is taught entirely online. Both institutions have combined well previously to deliver an award-winning masters programme to support early surgical training, and continue to serve as a powerful brand in surgery.

You will be taught by experienced tutors – all leading clinicians in their fields – and you will have access to well-defined and managed learning resources and educational material, including an unparalleled online library facility. Illustrative cases will cover technical skills and procedures as well as core knowledge and clinical skills.

### Programme structure

Based on the UK Intercollegiate Surgical Curriculum, this programme allows you to select advanced modules that match your declared subspecialty, and supports your study towards the Fellowship of the Royal College of Surgeons (FRCS) examinations.

#### YEAR 1 COURSES PREVIOUSLY OFFERED INCLUDE:

Compulsory courses will cover the basic elements of subspecialties, for instance, emergency surgery and critical care including the assessment and the pre-/peri-/post-operative care of the surgical patient. These modules will be taught and assessed using a clinical problem-based approach, supported by systems-based review of the course material.

#### YEAR 2 COURSES PREVIOUSLY OFFERED INCLUDE:

You will undertake a tailored academic course that reflects your subspecialty. You will explore research and teaching methodology, develop your skills in analysing published evidence and explore interactive and written clinical communication skills. You will also complete an academic critique in a subspecialty area of work.

### Career opportunities

The ChM provides advanced training for surgeons preparing for the intercollegiate fellowship examination and those approaching consultancy.

### Entry requirements

A medical degree (MBChB or equivalent) recognised by the General Medical Council. You should also have acquired MRCS (or equivalent assessment milestone) and be an Advanced Trainee in General Surgery (UK ST 5/6 or equivalent).

### English language requirements

See page 54.

### Fees and funding

For fees see page 54 and for funding information see page 56.

**Programme Director** Ewen Harrison

**Email** gensurginfo@rcsed.ac.uk

“The ChM programme is a great practical and academic exercise for surgeons at the end of their general surgical training, looking to consolidate their knowledge as they prepare for independent practice.”

**Ijeoma A Azodo**, ChM in General Surgery

www.ed.ac.uk/pg/852

## Global eHealth



Short course option

MSc up to 6 yrs PT. PgDip up to 4 yrs PT.  
PgCert up to 2 yrs PT. PgProfDev up to 2 yrs PT

### Programme description

This interdisciplinary programme introduces 'eHealth' in the context of international health systems and global health challenges, supported by specialist courses covering areas such as public health informatics, tele-healthcare and 'mHealth'.

The term eHealth describes a diverse field concerned with the application of ICT to support the organisation and delivery of healthcare services and to enable citizens to manage their own health and wellness. It has become a priority area for the international healthcare sector and is attracting considerable global investment.

This programme is aimed at a wide audience, including health professionals, policymakers, NGOs, researchers, eHealth vendors and ICT practitioners. It is unique in addressing the topic from a truly international perspective, including a consideration of low and medium income economies.

### Programme structure

This programme is delivered entirely online using a combination of online tuition, multimedia interactive learning materials, peer-to-peer discussion and independent study. A professional team of experts and e-learning technologists will support your progress.

#### CERTIFICATE AND DIPLOMA COURSES PREVIOUSLY OFFERED INCLUDE:

*Introduction to Health Informatics and eHealth; Introduction to Health Informatics; The Ethics and Governance of eHealth; Telemedicine and Telehealth; The Business of eHealth; mHealth in High and Low Resource Settings; Global Health Challenges; User-centred Design; Public Health Informatics; Patient eHealth; Maternal Health.*

#### MASTERS COURSES PREVIOUSLY OFFERED INCLUDE:

In the final phase of the programme, students are assessed on the basis of a structured research dissertation, based on a piece of original empirical research using a range of methods suited to the technology context and questions under investigation.

### Career opportunities

Opportunities may exist within academic and commercial research in eHealth; eHealth industry – design, development; aid agencies/NGOs – eHealth deployments and evaluation; Governments and health providers – eHealth policy and management; and international agencies – eHealth policy, analysis, delivery.

### Entry requirements

A UK 2:1 honours degree, or its international equivalent ([www.ed.ac.uk/international/graduate-entry](http://www.ed.ac.uk/international/graduate-entry)), in the field of clinical and allied health sciences, informatics, health policy, psychology, allied health sciences or a relevant related subject.

### English language requirements

See page 54.

### Fees and funding

For fees see page 54 and for funding information see page 56.

**Programme Director** Claudia Pagliari

**Email** global.ehealth@ed.ac.uk

Key FT: Full time. PT: Part time.

www.ed.ac.uk/pg/413

## Global Health & Infectious Diseases



Short course option

MSc up to 6 yrs PT. PgDip up to 4 yrs PT.  
PgCert up to 2 yrs PT. PgProfDev up to 2 yrs PT

### Programme description

In the past few decades there has been almost one new disease emerging each year, and more than 75 per cent of these diseases derive from zoonotic origins. There is now more demand for investment and research to help us manage these diseases better. This programme aims to address the challenges posed by infectious diseases in the 21st century by offering you courses in surveillance, prevention and control of infectious diseases, as well as evaluating how they impact public health. This is a professional postgraduate qualification for biomedical, medical, public health, and veterinary personnel with an interest in global health and infectious diseases.

This programme is affiliated with the University's Global Health Academy (see page 53): [www.ed.ac.uk/global-health](http://www.ed.ac.uk/global-health)

### Programme structure

The programme normally takes three years, beginning with a series of courses and followed by an individual project or dissertation.

#### CERTIFICATE COURSES PREVIOUSLY OFFERED INCLUDE:

*Global Health Fundamentals and Understanding Infectious Diseases.* You will also choose either a single course in *Applied Epidemiology and Public Health* or the two courses: *Global Citizenship and Globalisation and Health.*

#### DIPLOMA COURSES PREVIOUSLY OFFERED INCLUDE:

You will choose from a range of courses that includes: *Emerging Infectious Diseases; Global Health: Mortality; Neglected Tropical Diseases; Newborn and Child Health; An Introduction to Project Cycle Management; Sexually Transmitted Infections; The Communication of Disease Control; Travel Medicine and Infectious Disease; Water and Sanitation; Zoonotic Disease.*

#### MASTERS COURSES PREVIOUSLY OFFERED INCLUDE:

You will complete a written reflective element of 10,000–15,000 words.

### Career opportunities

This programme has been designed to help you fulfil leadership roles in international and national organisations that manage health and disease issues. A number of students have also raised their academic profile through the publication and dissemination of their final year research.

### Entry requirements

A UK 2:1 honours degree, or its international equivalent ([www.ed.ac.uk/international/graduate-entry](http://www.ed.ac.uk/international/graduate-entry)), in a biomedical, medical, public health, veterinary or relevant bioscience topic. We may also consider your application if you have relevant work experience; please contact us to check before you apply. You may be admitted to certificate level only in the first instance.

### English language requirements

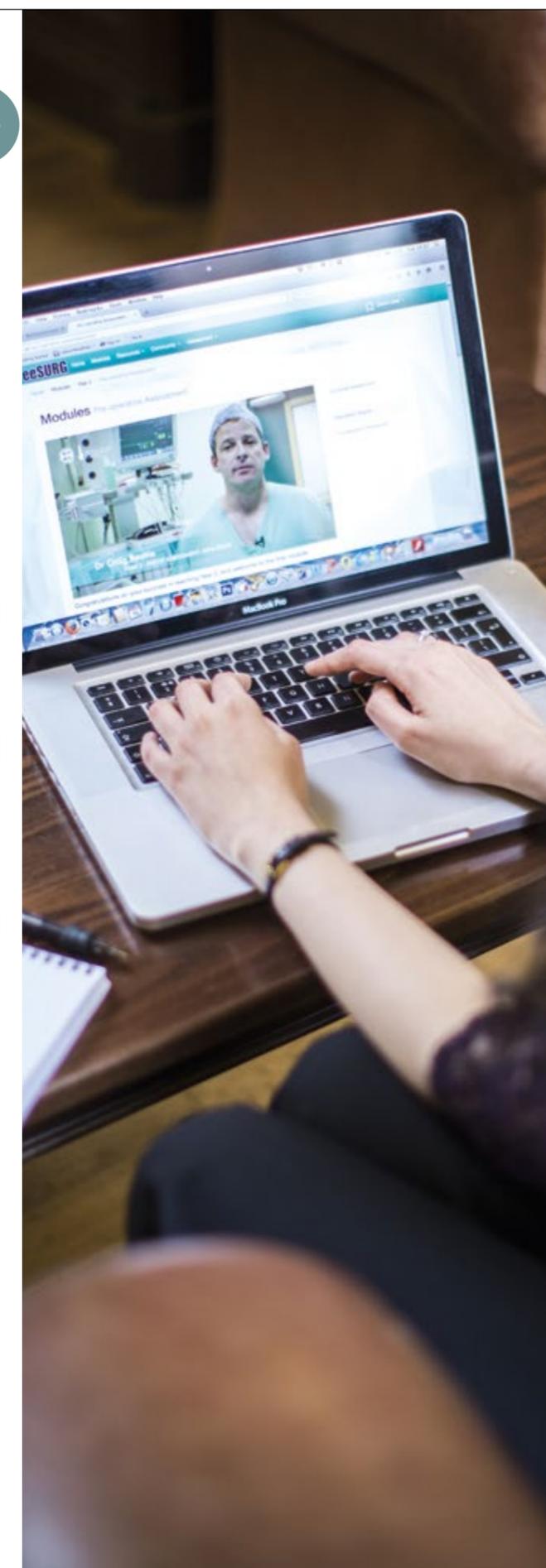
See page 54.

### Fees and funding

For fees see page 54 and for funding information see page 56.

**Programme Director** Kim Picozzi

**Email** ghid.onlinemsc@ed.ac.uk



www.ed.ac.uk/pg/793

## Global Health Challenges



PgCert 1 or 2 yrs PT. PgProfDev up to 2 yrs PT

### Programme description

This programme is designed to equip those already working in global health and development, or those planning to work with international and national health agencies, with the tools, knowledge and skills to engage with complex problems related to equitable and just health and wellbeing. It will also be of immense value for those interested in global development and aid, those interested in careers in health journalism, or those who work in international business in the health and social care fields, or in corporate social responsibility and sustainability.

The programme will use the particular expertise that the University and its global partners offer in global health, including its medical, nursing and biomedical excellence, and its strengths in political and social science.

You will develop an understanding of the processes and procedures by which the global health agenda is shaped. You will also gain the analytical and conceptual skills necessary to critically evaluate the nature of global health issues and to understand the interconnectedness of health with social, environmental, psychological and economic determinants. This programme is affiliated with the University's Global Health Academy (see page 53): [www.ed.ac.uk/global-health](http://www.ed.ac.uk/global-health)

### Programme structure

The programme is delivered using an innovative blend of online learning opportunities and environments. It will involve mixed teaching approaches with world expert leaders, online discussion, group project work, and independent study and reflection. After successfully completing this postgraduate certificate, you may choose to take two further postgraduate certificates in Global Development Challenges and Global Environment Challenges. Completion of all three certificates leads to an MSc in Global Challenges.

Our award-winning online learning technology is fully interactive and enables you to communicate with our highly qualified teaching staff from the comfort of your own home or workplace. You will not only have access to Edinburgh's excellent resources, but also become part of a supportive online community, bringing together students and tutors from around the world.

### Career opportunities

Graduates will have an understanding of the knowledge and skills required for pursuing a career with global health agencies, political institutions, business or in academia.

### Entry requirements

A UK 2:1 honours degree, or its international equivalent ([www.ed.ac.uk/international/graduate-entry](http://www.ed.ac.uk/international/graduate-entry)), in medicine, nursing, social science, science, biomedicine, or another related discipline. We may also consider your application if you have relevant work experience; please contact us to check before you apply.

### English language requirements

See page 54.

### Fees and funding

For fees see page 54 and for funding information see page 56.

**Programme Director** Liz Grant

**Email** [liz.grant@ed.ac.uk](mailto:liz.grant@ed.ac.uk)

www.ed.ac.uk/pg/702

## Global Health Studies



PgProfDev up to 2 yrs PT. PgCert 1 yr PT

### Programme description

This programme is designed to enable those with a personal, academic or professional interest in global health to study a variety of related subjects and join colleagues and fellow students in a global community.

The programme is structured to equip students with a comprehensive knowledge base in various aspects of global health. The emphasis is on the interdisciplinary nature of the subject and this is reflected by the wide range of courses it is possible to study within the programme – including animal health, biodiversity, global health, infectious and non-communicable diseases, sanitation and water issues, conservation and global citizenship, forensic medicine and science. Some courses benefit from a scientific background, although this is not a requirement.

### Programme structure

Courses are taught entirely online. This is a postgraduate certificate for students from a diverse professional background but with a common interest in global health. The programme is modular, offering a flexible student-centred approach to the choice of courses studied; you may choose to study one or more individual courses or complete a sufficient number of course credits to be awarded the certificate. The programme is invoiced at course level, allowing you to choose your curriculum content and manage your learning within flexible five- or 11-week teaching blocks, which are offered at fixed times across the academic year.

### Career opportunities

We value interdisciplinary debate on our courses and effective, professional communication skills form an important part of the outcomes of the programme. Graduates can use their qualification to enhance their career prospects in international and national organisations that manage global health issues.

### Postgraduate professional development

The courses we offer reflect the range of research and teaching interests of our academic staff and promote discussion of significant issues relating to global health – whether human, animal or environmental. These are credit-bearing courses which run for five or 11 weeks at a time; and upon completion can lead to a University of Edinburgh postgraduate award of academic credit. You may take a maximum of 50 credits worth of courses through our postgraduate professional development scheme. These credits will be recognised in their own right at postgraduate level, or may be put towards gaining a higher award, such as a postgraduate certificate, postgraduate diploma or MSc.

### Entry requirements

A UK 2:1 honours degree, or its international equivalent ([www.ed.ac.uk/international/graduate-entry](http://www.ed.ac.uk/international/graduate-entry)). We may also consider your application if you have relevant work experience; please contact us to check before you apply. You may be admitted to certificate level only in the first instance.

### English language requirements

See page 54.

### Fees and funding

For fees see page 54 and for funding information see page 56.

**Programme Director** Kim Picozzi

**Email** [globalhealth.studies@ed.ac.uk](mailto:globalhealth.studies@ed.ac.uk)

Key FT: Full time. PT: Part time.

www.ed.ac.uk/pg/815

## Imaging



MSc up to 6 yrs PT. PgDip up to 4 yrs PT. PgCert up to 2 yrs PT. PgProfDev up to 2 yrs PT

### Programme description

This programme is aimed at those interested in imaging sciences, light microscopy, preclinical imaging and clinical imaging (including courses in cardio-thoracic, oncology and inflammation imaging). The programme integrates the University's rich and multidisciplinary imaging educational opportunities and provides a tailored imaging learning experience targeted at the diverse needs and interests of students with backgrounds in clinical medicine; basic sciences and engineering; and information technology.

### Programme structure

You may study to postgraduate certificate or diploma, or MSc level.

#### CERTIFICATE COURSES PREVIOUSLY OFFERED INCLUDE:

You will complete the compulsory courses *Techniques & Physics* and *Practicalities & Safety*. You will also complete two courses from the following options: *Applications in Disease Research*; *Clinical Applications*; *Digital Image Processing & Analysis*; *Image Interpretation & Evaluation*.

#### DIPLOMA COURSES PREVIOUSLY OFFERED INCLUDE:

You will complete the compulsory courses *Statistics* and *Study Design*. You will also complete four courses from the following options: *Biomechanics*; *Light Microscopy*; *Preclinical Imaging*; *Neuro-anatomy*; *Body Anatomy*; *Translational Imaging*; *Cardiovascular Imaging*; *Oncologic Imaging*; *Imaging in Inflammation & Infection*.

#### MASTERS COURSES PREVIOUSLY OFFERED INCLUDE:

You will complete practical work (a project) and assessed activities.

### Career opportunities

Clinical graduates will finish the programme with improved clinical image management skills and will also be better able to advise companies and businesses that develop tools and techniques for their specialties, where imaging is required. For pre-clinically focused students, an imaging skill set expands academic possibilities and is more likely to assist with translational techniques necessary to bridge the preclinical and clinical sciences. This programme will also be attractive as a preliminary qualification before undertaking career training in hospital medical physics (for physicists and engineers) or before taking a PhD or research scientist post.

### Postgraduate professional development

If you are looking for a shorter course option, we offer online credit-bearing courses which run for 11 weeks at a time. These lead to a University of Edinburgh postgraduate award of academic credit. You may take a maximum of 50 credits worth of courses through our postgraduate professional development scheme. These credits will be recognised in their own right at postgraduate level, or may be put towards gaining a higher award, such as a postgraduate certificate, postgraduate diploma or MSc.

### Entry requirements

A UK 2:1 honours degree, or its international equivalent ([www.ed.ac.uk/international/graduate-entry](http://www.ed.ac.uk/international/graduate-entry)), in the fields of radiology, radiography, surgery, medicine (MBChB or equivalent) and veterinary medicine, biology, biomedical sciences, physics, engineering, chemistry, light microscopy, preclinical/animal based research, pharmacology, image processing, image analysis, computer science, informatics, or infometrics.

### English language requirements

See page 54.

### Fees and funding

For fees see page 54 and for funding information see page 56.

**Programme Contact** Charis Alexakis

**Email** [imaging.msc@ed.ac.uk](mailto:imaging.msc@ed.ac.uk)

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www.ed.ac.uk/pg/692

## Internal Medicine



MSc/PgDip/PgCert 3 yrs, 2 yrs or 1 yr PT

### Programme description

This online programme will give you a comprehensive understanding of the processes, investigation procedures and treatment options for common diseases you encounter in general medical practice. The programme is mostly for early postgraduate doctors. It complements the learning you need to achieve membership of the Royal College of Physicians and it may also be suitable for doctors in other specialties, or nurse consultants and other paramedical specialists with extensive clinical experience.

We cover basic physiology, pathophysiology, therapy and clinical management, as well as clinical skills, generic skills (including writing and research methods), law, ethics and prescribing ability. Problem-based learning through clinical case scenarios will be used to enhance knowledge and clinical decision-making. We use a variety of e-learning resources and platforms, including a virtual classroom with online tutorials and lectures, online interactive resources and virtual patients.

### Programme structure

This programme is made up of compulsory and option courses.

#### COMPULSORY COURSES PREVIOUSLY OFFERED INCLUDE:

*Clinical Pharmacology*; *Science of Medicine*; *Laboratory Medicine*; *Imaging in Medicine*; *Acute Medicine and Clinical Decision-Making*; *Clinical Skills (Communication, Examination and Medical Procedures)*; *Introductory Skills (IT Skills, Research/Literature Evaluation and Writing Skills)*; *Research Methods*.

#### OPTION COURSES PREVIOUSLY OFFERED INCLUDE:

*Cardiology*; *Dermatology*; *Neurology*; *Clinical Genetics*; *Translational Medicine*; *Clinical Education and Teaching*; *Medical Ethics*; *Palliative Care and Pain Management*.

### Career opportunities

This programme is designed to help medical professionals gain the next step in their medical career, with a highly regarded qualification and first-rate expertise.

### Entry requirements

A medical degree (MBChB or equivalent) or a UK 2:1 honours degree, or its international equivalent ([www.ed.ac.uk/international/country](http://www.ed.ac.uk/international/country)), in a clinically relevant subject. You must have work experience in a clinical context. We may also consider your application if you have other relevant work experience; please contact us to check before you apply. You may be admitted to certificate level only in the first instance.

### English language requirements

See page 54.

### Fees and funding

For fees see page 54 and for funding information see page 56.

**Programme Contact**

**Email** [internal.medicine@ed.ac.uk](mailto:internal.medicine@ed.ac.uk)



www.ed.ac.uk/pg/241

## International Animal Health



Online learning

Short course option

MSc up to 6 yrs PT. PgDip up to 4 yrs PT.  
PgCert up to 2 yrs PT. PgProfDev up to 2 yrs PT

### Programme description

Livestock are vital to the lives of millions of people, but endemic and epidemic diseases that affect livestock limit productivity and exacerbate poverty. The diseases that can be transmitted between animals and people also threaten the health of livestock keepers, their families and their communities. In many developing regions farmers and animal health workers are often ill-equipped to deal with this risk. This programme draws together expertise from across the University to deliver first-class teaching and research to tackle these issues.

This programme is affiliated with the University's Global Health Academy: [www.ed.ac.uk/global-health](http://www.ed.ac.uk/global-health)

### Programme structure

You may study to postgraduate certificate, postgraduate diploma or MSc level.

#### CERTIFICATE COURSES PREVIOUSLY OFFERED INCLUDE:

*Applied Epidemiology and Surveillance; Host Responses to Infection; Pathogen Strategies for Transmission and Survival.*

#### DIPLOMA COURSES PREVIOUSLY OFFERED INCLUDE:

You will study *Zoonotic Disease* and either *Surveillance and Control of Transboundary Diseases Affecting International Trade* or *An Introduction to Transboundary Diseases and their Impact on Trade and Wildlife Populations*. You will then choose a selection of courses from the following options: *Control of Economically Important Parasites; New Developments in Epidemiology and the Control of Vector Borne Disease; Veterinary Vaccinology; Wildlife Animal Health and Environment; Technology Advances in Veterinary Diagnostics; Animal Disease Survey Design and Analysis; Project Planning and Decision Support for Animal Disease Control; Introduction to GIS and Spatial Data Analysis; Advanced GIS and Spatial Epidemiology and Modelling; An Introduction to Project Cycle Management; Globalisation and Health; The Modern Zoo; Artificial Reproduction Technology and Wildlife; Pastoralism and Herd Health; Zoonotic Diseases in a Global Setting; Socioeconomic Principles for One Health.*

#### MASTERS COURSES PREVIOUSLY OFFERED INCLUDE:

You will either conduct a written reflective element of 10,000-15,000 words or take *Project Cycle Management and Funding Application Preparation*.

### Career opportunities

This programme has been designed to enhance your career in animal management throughout the world with first-rate expertise and a highly regarded qualification.

### Entry requirements

A UK 2:1 honours degree, or its international equivalent ([www.ed.ac.uk/international/graduate-entry](http://www.ed.ac.uk/international/graduate-entry)), in veterinary medicine, agricultural science, biology or a related science discipline. We may also consider your application if you have relevant work experience; please contact us to check before you apply. You may be admitted to certificate level only in the first instance.

### English language requirements

See page 54.

### Fees and funding

For fees see page 54 and for funding information see page 56.

**Programme Director** Ewan Macleod  
**Email** [iah.onlinemsc@ed.ac.uk](mailto:iah.onlinemsc@ed.ac.uk)

www.ed.ac.uk/pg/234

## Neuroimaging for Research



Online learning

Short course option

MSc up to 6 yrs PT. PgDip up to 4 yrs PT.  
PgCert up to 2 yrs PT. PgProfDev up to 2 yrs PT

### Programme description

Neuroimaging research techniques are now in demand from expanding areas of research that require expert understanding of brain function. These include neuroscience, psychology, pharmacology, informatics, physics, computer science, neuroradiology and linguistics. This flexible, part-time, online programme allows you to improve your neuroimaging expertise and gain a highly regarded masters qualification, while remaining at work in your field and in your own location.

A professional team of neuroimaging experts and e-learning technologists will support your progress.

### Programme structure

You may choose to study to postgraduate certificate, postgraduate diploma or MSc level.

#### CERTIFICATE COURSES PREVIOUSLY OFFERED INCLUDE:

*Techniques and Physics; Applications in Disease; Common Image Processing Techniques; Practicalities of MR.*

#### DIPLOMA COURSES PREVIOUSLY OFFERED INCLUDE:

*Anatomy; Statistics; Study Design; Common Image Processing Techniques 2.* You will also choose one of the following: *Functional Imaging; Image Analysis; Translational Imaging and Clinical Trials.*

#### MASTERS

You will complete practical work and assessments.

### Career opportunities

This is an ideal programme to help you in your neuroimaging research-based career, giving you advanced and well-recognised expertise in the field.

### Postgraduate Professional Development

If you are looking for a shorter course option, we offer online credit-bearing courses which run for 11 weeks at a time. These lead to a University of Edinburgh postgraduate award of academic credit. You may take a maximum of 50 credits worth of courses through our Postgraduate Professional Development scheme. These credits will be recognised in their own right at postgraduate level, or may be put towards gaining a higher award, such as a postgraduate certificate, postgraduate diploma or MSc.

### Entry requirements

A UK 2:1 honours degree, or its international equivalent ([www.ed.ac.uk/international/graduate-entry](http://www.ed.ac.uk/international/graduate-entry)), in neuroscience, physiology, pharmacology, informatics, psychology, physics, medicine (MBChB or equivalent) or a related subject. We will also consider your application if you have a radiography qualification.

### English language requirements

See page 54.

### Fees and funding

For fees see page 54 and for funding information see page 56.

**Programme Contact** Charis Alexakis  
**Email** [neuroimaging.msc@ed.ac.uk](mailto:neuroimaging.msc@ed.ac.uk)

www.ed.ac.uk/pg/667

## Paediatric Emergency Medicine



MSc/PgDip/PgCert 3 yrs, 2 yrs or 1 yr PT

### Programme description

This programme is aimed at high-calibre graduates in medicine involved in the management of clinical emergencies in children. It is ideal for trainees in paediatrics and emergency medicine, and also highly relevant for anaesthetists who wish to develop skills in paediatric anaesthesia or paediatric intensive care. It will also help primary care practitioners who work in remote and rural areas without paediatric support.

The programme is designed to give you the educational background you need to manage medical emergencies in children, throughout the world. The final year of the programme can be tailored to your circumstances and career goals.

### Programme structure

You may choose to study to postgraduate certificate, postgraduate diploma or MSc level.

#### YEAR 1: CERTIFICATE COURSES PREVIOUSLY OFFERED INCLUDE:

You will study a wide range of specialities in *Fundamentals in Paediatric Medicine*.

#### YEAR 2: DIPLOMA COURSES PREVIOUSLY OFFERED INCLUDE:

*Medical Emergencies; Surgical Emergencies & Trauma/Anaesthesia & Sedation; Additional Topics in Paediatric Emergency Medicine.*

#### YEAR 3: MASTERS COURSES PREVIOUSLY OFFERED INCLUDE:

*Management Issues in Paediatric Emergency Medicine.* You will also undertake a written reflective element from a number of suggested topics.

### Career opportunities

This programme has been designed to help you achieve a successful career in paediatric emergency medicine with a high-quality qualification and the latest understanding and knowledge.

### Entry requirements

A medical degree (MBChB or equivalent) plus one year of postgraduate clinical experience, eg FY1 in UK, or equivalent elsewhere. You must have an ongoing commitment to the clinical care of children and be actively attending to children in emergency situations. You must include details of all your experience working with ill and/or injured children in acute settings in your application. Please ask your referee to confirm this experience in the reference they supply.

### English language requirements

See page 54.

For fees see page 54 and for funding information see page 56.

**Programme Director** Paula Midgley  
**Email** pem-ed.onlinemsc@ed.ac.uk

www.ed.ac.uk/pg/862

## Primary Care Ophthalmology



MSc up to 6 yrs PT. PgDip up to 4 yrs PT. PgCert up to 2 yrs PT. PgProfDev up to 2 yrs PT

### Programme description

This programme is jointly offered by the University and the Royal College of Surgeons of Edinburgh, and has been developed in partnership with NHS Education for Scotland (NES). It is aimed at supporting optometrists seeking formal postgraduate training in community-based clinical care, and also medical and surgical trainees entering ophthalmology training.

This programme offers first-rate preparation for the Fellowship of the Royal College of Surgeons of Edinburgh (FRCSEd) and Fellowship of the Royal College of Ophthalmologists (FRCOphth) examinations or equivalent.

### Programme structure

This programme involves approximately 10 hours of study each week in a flexible, modular manner. At postgraduate certificate and postgraduate diploma levels, students must attend an end-of-year examination, held in Edinburgh for UK-based students or with a pre-approved partner institution for international students.

#### CERTIFICATE COURSES PREVIOUSLY OFFERED INCLUDE:

*Basic Ophthalmic Science: Anatomy, Pathology, Physiology of the Ocular Structures; Basic Examination & Investigation Techniques; Basic Glaucoma; Basic Macular Disease; Basic Acute Eye Disease & Vision Loss; eTriage and Referral Refinement.*

#### DIPLOMA COURSES PREVIOUSLY OFFERED INCLUDE:

*Advanced Ophthalmic Science: Anatomy, Pathology, Physiology of the Ocular Structures; Advanced Examination & Investigation Techniques; Advanced Glaucoma; Advanced Macular Disease; Advanced Acute Eye Disease & Vision Loss; Advanced eTriage and Referral Refinement.*

#### MASTERS

You will complete a supervised masters research project and submit a written dissertation.

### Career opportunities

This MSc will highlight your commitment to continuing professional development in your career and will ensure a competitive edge when applying for clinical positions. It will also help prepare you for an academic or research career.

### Entry requirements

A medical degree (MBChB or equivalent), or a UK 2:1 honours degree, or its international equivalent ([www.ed.ac.uk/international/graduate-entry](http://www.ed.ac.uk/international/graduate-entry)), in optometry, orthoptics, dispensing optics, ophthalmic nursing or biomedical sciences.

We will also consider your application if you have 3-5 years' relevant work experience or professional qualifications, such as RGN, with appropriate clinical experience.

### English language requirements

See page 54.

### Fees and funding

For fees see page 54 and for funding information see page 56.

**MSc Programme Administration**  
**Email** [essqinfo@rcsed.ac.uk](mailto:essqinfo@rcsed.ac.uk)

Key FT: Full time. PT: Part time.

www.ed.ac.uk/pg/789

## Primary Dental Care



MSc/PgDip/PgCert 3 yrs, 2 yrs or 1 yr PT

### Programme description

This programme provides masters-level education for primary care clinicians, with a particular emphasis on restorative dentistry. It is designed to meet the needs of dental practitioners from all over the world.

The programme develops your ability to take an evidence-based approach to clinical practice and to assess and provide quality primary dental care.

### Programme structure

Each course will run over a period of six or 12 weeks with participation in online discussions and completion of timed tasks being a compulsory part of the process. The programme is supported by a virtual learning environment and all the educational material is available online. Maintenance of a portfolio of evidence is an essential component of assessment. Students are strongly encouraged to include a reflective element and to maintain a personal journal. There is a significant commitment of time required to complete this course and you will be required to take part in weekly tutorials and discussions. It is estimated that 15-20 hours a week of clinical time and personal study will be required.

#### YEAR 1 (CERTIFICATE) AND YEAR 2 (DIPLOMA) COURSES PREVIOUSLY OFFERED INCLUDE:

*Introduction to Clinical Evidence; Diagnosis and Treatment Planning; Direct Restorations; Dental Clinic Management; Occlusal Management of the Restored Natural Dentition; Endodontics in Primary Dental Care; Periodontal Management in Primary Dental Care; Indirect Restorations; Restoration of the Edentulous Space.*

#### YEAR 3: MASTERS

You will complete a research dissertation and carry out clinical case reports.

### Career opportunities

This MSc does not allow entry to any specialist lists but will aid promotion in a primary dental care career pathway, particularly within a salaried service. General dental practitioners who wish to be involved with teaching or research will also find this an important qualification. The Faculty of General Dental Practice UK, FGDP(UK), at The Royal College of Surgeons of England, has accredited the programme towards its Fellowship career pathway.

### Summer school

An annual five-day summer school will be run in the Edinburgh Postgraduate Dental Institute to reinforce the clinical-skills coaching element of the teaching.

### Entry requirements

A primary dental qualification (such as a Bachelor of Dental Surgery), or its international equivalent ([www.ed.ac.uk/international/graduate-entry](http://www.ed.ac.uk/international/graduate-entry)), plus a minimum of two years' postgraduate experience in primary dental care.

### English language requirements

See page 54.

### Fees and funding

For fees see page 54 and for funding information see page 56.

**Programme Director** Oonagh Lawrie  
**Email** [epdi@ed.ac.uk](mailto:epdi@ed.ac.uk)

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www.ed.ac.uk/pg/886

## Public Health



MPH 3 yrs PT. PgDip 2 yrs PT. PgCert 1 yr PT. PgProfDev up to 2 yrs PT

### Programme description

Public Health is about preventing disease, prolonging life and promoting health through the efforts of society. This is the ideal programme for those wishing to address today's problems in public health. You will gain an understanding of how different scientific disciplines can be used to investigate and then develop the best professional practice in epidemiology, public health and the social science of health. This programme is taught by lecturers at the Usher Institute for Population Health Sciences and Informatics, an interdisciplinary research hub that draws together researchers, clinicians and practitioners from public health, primary care, medical informatics and biomedical and social sciences. It incorporates the Centre for Population Health Sciences, the Centre for Medical Informatics and the Centre for Global Health Research, which is also a WHO Collaborating Centre for Population Health Research and Training. This programme is affiliated with the University's Global Health Academy (see page 53): [www.ed.ac.uk/global-health](http://www.ed.ac.uk/global-health)

### Programme structure

You can study to masters, diploma, or certificate level. All students follow the same compulsory Year 1 courses, which provide a solid foundation in the fundamentals of public health, whilst a suite of option courses offer you the opportunity to explore areas of interest in more depth and to tailor the programme to your own learning needs and career goals.

#### YEAR 1: CERTIFICATE COURSES PREVIOUSLY OFFERED INCLUDE:

*Introduction to Global Public Health; Introduction to Health Promotion; Epidemiology for Public Health Practice; Fundamentals of Health Economics; Introduction to Epidemiology and Statistics.*

#### YEAR 2: DIPLOMA COURSES PREVIOUSLY OFFERED INCLUDE:

The following courses are compulsory: *Public Health Policy; Introduction to Qualitative Research Methods; Research Skills for Public and Global Health.* You will then choose 30 credits of option courses (see online for full list).

#### YEAR 3: MASTERS

Either 60 credits of option courses (see online for full list) or a dissertation. The dissertation option will only be available by agreement with the programme director if stipulated academic requirements have been met.

### Career opportunities

This programme will prepare you for a career in research or academia, professional public health service, clinical epidemiology, health technology assessment, public-health protection and a wide range of national and international organisations concerned with preventing disease and improving the health of populations.

### Entry requirements

A UK 2:1 honours degree, or its international equivalent ([www.ed.ac.uk/international/graduate-entry](http://www.ed.ac.uk/international/graduate-entry)), in medicine, nursing, social science, science, biomedicine, or other related discipline.

### English language requirements

See page 54.

### Fees and funding

For fees see page 54 and for funding information see page 56.

**MPH Programme Administration**  
**Email** [mph.dl@ed.ac.uk](mailto:mph.dl@ed.ac.uk)

www.ed.ac.uk/pg/819

## Science Communication & Public Engagement



MSc/PgDip/PgCert 3 yrs, 2 yrs or 1 yr PT

### Programme description

The fields of science communication and public engagement are currently enjoying unprecedented growth. This is being driven by a greater need to demonstrate the impact of publicly funded research, the need for science to be valued and a desire for a stronger evidence base for policy decisions. Many career opportunities are emerging at the interface between academic research and various stakeholders.

You will experience a variety of science communication and public engagement methodologies and you will engage with current science communication challenges. In the process, you will develop your ability to think critically and to effectively reflect on your practice. The learning from one course is transferable to other courses, thus ensuring interconnection across the programme.

This programme is affiliated with the University's Global Academies: [www.ed.ac.uk/global-academies](http://www.ed.ac.uk/global-academies)

### Programme structure

#### YEAR 1: CERTIFICATE COURSES PREVIOUSLY OFFERED INCLUDE:

*Introduction to Science Communication and Public Engagement; Science and Society A; Science and Society B; Principles and Practice in Public Engagement with Science; Science Education; The Role of Social Media in Science Communication.*

#### YEAR 2: DIPLOMA COURSES PREVIOUSLY OFFERED INCLUDE:

*Dialogue for Science Communication and Public Engagement; Science, Policy and Practice; Science and the Media; Effective Exhibit and Programme Development; Creative Arts in Science Engagement; Science Communication; Principles and Practice 2.*

#### YEAR 3: MASTERS COURSES PREVIOUSLY OFFERED INCLUDE:

*SCPE Critical Analysis/Research Project or SCPE Practical Project.* The masters dissertation can be a research or practical project or a combination of both.

### Career opportunities

To address the need for effective science communication and public engagement with science, there has been a significant rise in opportunities available for professionals with the specialist knowledge, skills and attributes necessary to pursue roles at the interface between scientific research and the public.

These roles can be found in, for example, higher education institutions, research centres, museums, science centres, learned societies and consultancies for democratic decision-making. Examples of specific roles are engagement managers, information and education officers, and policy and knowledge brokers, in addition to the traditional science communicator role.

### Entry requirements

A UK 2:1 honours degree, or its international equivalent ([www.ed.ac.uk/international/graduate-entry](http://www.ed.ac.uk/international/graduate-entry)), in a science-related subject. We will also consider your application if you have other qualifications at UK honours degree level and relevant experience.

### English language requirements

See page 54.

### Fees and funding

For fees see page 54 and for funding information see page 56.

**Programme Director** Elizabeth Stevenson  
**Email** [e.stevenson@ed.ac.uk](mailto:e.stevenson@ed.ac.uk)

www.ed.ac.uk/pg/939

## Stem Cells & Translational Neurology



MSc up to 6 yrs PT. PgDip up to 4 yrs PT. PgCert up to 2 yrs PT. PgProfDev up to 2 yrs PT

### Programme description

Dementia (including neurodegenerative diseases such as Alzheimer's) recently became the leading cause of death in the UK. Stem cells are a novel and relatively young branch of scientific research that hold the potential not only for therapies but to be able to accurately model these distinctly human diseases. This unique programme will offer you real-world perspectives from patients, carers, scientists and a range of healthcare professionals, including world-leading experts on the impact of neurological diseases. It offers cutting-edge translational neuroscience focused on stem cells, neurodegenerative diseases, regeneration and models (both animal and cell). You will gain the knowledge and understanding of the clinical, real-life impact and scientific realities of these fields, advance their learning and carry this on into your career.

### Programme structure

Studying online, you will gain up-to-date knowledge, skills and theory from world leading clinical and scientific experts, the real-life accounts of patients, carers and frontline health professionals, and opportunities for collaborative critical discourse and debate.

#### CERTIFICATE COURSES PREVIOUSLY OFFERED INCLUDE:

You will cover fundamental areas including key research skills; the central nervous system, its basic anatomy, structure and development; and stem cells. You will study neurodegenerative diseases (Alzheimer's, Parkinson's, and motor neurone disease), in vitro and in vivo modelling of these, and neuroimaging and its potential for scientific research.

#### DIPLOMA COURSES PREVIOUSLY OFFERED INCLUDE:

You will expand on Year 1 study, examine in depth novel areas such as the roles of pharma and industry with respect to stem cells, and choose options from across the University.

#### MASTERS COURSES PREVIOUSLY OFFERED INCLUDE:

You will explore a specialist area of stem cells, regeneration and translational neuroscience in a dissertation or a structured project that aims to deliver real-world impact for an employer, organisation or personal goal.

### Postgraduate professional development

Short, focused, credit-bearing courses provide specific training through an interactive online learning medium allowing you to study in your own time. You may take 50 credits worth of PgProfDev courses which are recognised in their own right or can contribute to a PgCert, PgDip, or MSc.

### Career opportunities

If you are working in a clinical environment, this programme offers you career advancement/specialism within your clinical setting. If you are from a scientific background you will have the opportunity to improve your career prospects in laboratory research settings or progress to a PhD.

### Entry requirements

A UK 2:1 honours degree, or its international equivalent ([www.ed.ac.uk/international/graduate-entry](http://www.ed.ac.uk/international/graduate-entry)), in neuroscience, anatomy, physiology, pharmacology, physics, medicine, biology or a related science discipline.

### English language requirements

See page 54.

### Fees and funding

For fees see page 54 and for funding information see page 56.

**Deputy Programme Director** Dr David Hampton  
**Tel** +44 (0)131 242 9421  
**Email** [stemcell-msc@ed.ac.uk](mailto:stemcell-msc@ed.ac.uk)

Key FT: Full time. PT: Part time.

www.ed.ac.uk/pg/404

## Surgical Sciences



MSc 3 yrs PT

### Programme description

This online programme is jointly offered by the University and the Royal College of Surgeons of Edinburgh. It covers the UK Intercollegiate Surgical Curriculum.

This programme gives you first-rate preparation for the Membership of the Royal College of Surgeons (MRCS) examination, with additional emphasis on acquired knowledge and its application. The third-year MSc research project also serves as an opportunity to develop an academic career in surgery.

### Programme structure

Delivered through an online learning environment, students accumulate credits through a series of courses leading to a Postgraduate Certificate (PgCert), Postgraduate Diploma (PgDip) or MSc. At PgCert and PgDip levels, you must attend an end-of-year examination, held in Edinburgh for UK-based students or with a pre-approved partner institution for international students.

#### YEAR 1 COURSES PREVIOUSLY OFFERED INCLUDE:

*Introduction to the ESSQ; Cardiovascular and Respiratory; Neoplasia, Immunology, Microbiology and Haematology; Gastrointestinal 1; Gastrointestinal 2 and Transplant; Colorectal; Urology; Locomotor and Plastics; Endocrinology, Breast and Skin; ENT/OMFS.*

#### YEAR 2 COURSES PREVIOUSLY OFFERED INCLUDE:

*Preoperative Assessment; Principles of Postoperative and Critical Care; Principles of Surgical Management; Surgical and Communication Skills; Academic Activity.*

#### YEAR 3

A masters research project in which you will plan, execute and develop a research paper, potentially involving clinical or laboratory research.

### Career opportunities

This programme is designed to let you study towards your MRCS in a flexible way. The vast majority of our recent graduates are now working as doctors and surgeons for NHS trusts and boards across the UK.

### Entry requirements

A medical degree (MBChB or equivalent). You must be in a supervised clinical environment while you are studying.

### English language requirements

See page 54.

### Fees and funding

For fees see page 54 and for funding information see page 56.

**Programme Director** Stephen Wigmore  
**Email** [essqinfo@rcsed.ac.uk](mailto:essqinfo@rcsed.ac.uk)

The University of Edinburgh  
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www.ed.ac.uk/pg/791

## Trauma & Orthopaedics



ChM 2 yrs PT

### Programme description

This programme is offered by the Royal College of Surgeons of Edinburgh and the University, and leads to the award of Master of Surgery (ChM).

Based on the UK Intercollegiate Surgical Curriculum, the ChM in Trauma and Orthopaedics provides the opportunity for you to select advanced courses relevant to your declared specialty, and supports learning for the Fellowship of the Royal College of Surgeons (FRCS) examinations. The programme is designed to run alongside clinical training and complement workplace assessment.

### Programme structure

The programme runs over two years and involves approximately 10 hours of study each week in a flexible modular manner. It is anticipated that some of this study would receive credit or mirror 'in-the-workplace' activities. The online learning nature of this programme is perfect for doctors working unsociable shift patterns.

#### YEAR 1

You will explore research and teaching methodology, and develop your ability to analyse published evidence and explore interactive and written clinical communication skills. You will complete an academic masters dissertation project in your chosen subspecialty area of work. We actively encourage you to seek publication of your work after completion of the programme.

#### YEAR 2

Compulsory courses cover the core elements of the subsections of the orthopaedic syllabus. These are taught and assessed using a clinical problem-based approach, supported by systems-based review of the course material. You will be expected to critically analyse reference material and, where appropriate, relate it to your own work.

### Career opportunities

You will be able to demonstrate in-depth knowledge of your chosen surgical subspecialty and be able to apply this knowledge to the systematic assessment and management of surgical patients in the elective, urgent and emergency clinical setting.

### Entry requirements

You must hold a medical degree (MBChB or equivalent) recognised by the General Medical Council and would normally have acquired your MRCS (or equivalent assessment milestone) and be an advanced trainee in trauma and orthopaedics (ST 5/6 or equivalent).

### English language requirements

See page 54.

### Fees and funding

For fees see page 54 and for funding information see page 56.

**Programme Directors** John McKinley & Matt Moran  
**Email** [chminfo@rcsed.ac.uk](mailto:chminfo@rcsed.ac.uk)

Key FT: Full time. PT: Part time.

www.ed.ac.uk/pg/792

## Urology



ChM 2 yrs PT

### Programme description

This programme is offered by the Royal College of Surgeons of Edinburgh and the University, and leads to the award of Master of Surgery (ChM). Based on the UK Intercollegiate Surgical Curriculum, it provides the opportunity for trainees in urology to select those advanced modules relevant to their declared specialty, and supports learning for the Fellowship of the Royal College of Surgeons (FRCS) examinations. The programme is designed to run alongside clinical training and complement workplace assessment.

### Programme structure

The programme runs on a semester basis over two years and involves approximately 10 hours of study each week, in a flexible modular manner. It is anticipated that some of this study would receive credit or mirror 'in-the-workplace' activities. The online learning nature of this programme is perfect for doctors working unsociable shift patterns.

#### YEAR 1

Compulsory courses will cover the basic elements of the specialty of urology, including oncology, andrology, stone disease, reconstructive urology, paediatric urology and renal transplantation.

#### YEAR 2

You will explore research and teaching methodology, and develop skills to analyse published evidence and explore interactive and written clinical communication skills. You will be required to complete an academic critique/dissertation in an appropriate subspecialty area of work.

You will be expected to lead e-seminars and e-journal clubs, and will produce an e-dissertation in the second year. A written examination is held in the second year, following completion of compulsory courses.

### Career opportunities

Graduates will be able to demonstrate in-depth knowledge of their chosen surgical subspecialty and to apply this knowledge to the systematic assessment and management of surgical patients in the elective, urgent and emergency clinical setting.

### Entry requirements

A medical degree (MBChB or equivalent) recognised by the General Medical Council, and you must have acquired your MRCS (or equivalent assessment milestone). UK applicants must be an advanced trainee in urology (UK ST 4) and be based in a supervised surgical training programme at the time of enrolling. Applicants from outside the UK must have completed a minimum of 24 months of core training in the surgical specialties and 18 months of specialty training in urology before enrolling for the ChM. Surgeons who have a consultant or career grade post (or equivalent) in urology are also eligible for entry.

### English language requirements

See page 54.

### Fees and funding

For fees see page 54 and for funding information see page 56.

**Programme Director** Grant Stewart

**Email** [chminfo@rcsed.ac.uk](mailto:chminfo@rcsed.ac.uk)

## See also...

You may also be interested in online learning programmes offered by other Schools within the University, particularly One Health, offered by the Royal (Dick) School of Veterinary Studies, or Next Generation Drug Discovery, offered by the School of Biological Sciences.

[www.ed.ac.uk/studying/prospectus-request](http://www.ed.ac.uk/studying/prospectus-request)

www.ed.ac.uk/pg/808

## Vascular & Endovascular Surgery



ChM 2-4 yrs PT

### Programme description

This programme is offered by the Royal College of Surgeons of Edinburgh and the University, and leads to the award of Master of Surgery (ChM). Based on the UK Intercollegiate Surgical Curriculum, it provides advanced training for surgeons preparing for the intercollegiate fellowship examination and approaching independent surgical practice.

### Programme structure

The programme runs on a semester basis over 2-4 years and involves approximately 10-15 hours of study each week, in a flexible modular manner. The programme is delivered using a purpose-built learning environment that supports a variety of learning styles and allows you flexibility in your studies.

#### YEAR 1 COURSES PREVIOUSLY OFFERED INCLUDE:

Compulsory courses in each area of vascular and endovascular surgery are aligned to the Intercollegiate Surgical Curriculum Programme. Courses include *Principles of Vascular Practice; Aneurysms; Venous & Lymphatic Disorders; Vascular Trauma; Principles of Endovascular Practice*. Knowledge and understanding will be assessed in the second year, following completion of compulsory courses, with a formal written examination (MCQs and EMIs) that will replicate the trainees' upcoming exit exams.

#### YEAR 2

You will explore research and teaching methodology, and develop the ability to analyse published evidence and enhance your interactive and written clinical communication skills. You are required to complete a dissertation based on original research or a systematic review in a relevant area of work. Alternatively, an individual with a number of peer-reviewed journal publications may undertake an academic critique of their work.

### Career opportunities

The programme will offer an alternative to clinical/laboratory research training for those students who do not wish to take time out of surgical training. It will develop your academic portfolio and facilitate surgical research projects essential to a research active career. The programme is designed to follow the ISCP curriculum and will prepare advanced surgical trainees for their exit professional examinations allowing appointment as an independently practising surgeon. The award of ChM will highlight your commitment to continual professional development and will ensure a competitive edge when applying for consultant positions.

### Entry requirements

You must hold a medical degree (MBChB or equivalent) recognised by the General Medical Council, and must have acquired your MRCS (or equivalent assessment milestone).

UK applicants must be an advanced trainee in general or vascular surgery (UK ST 3/4) and be based in a supervised surgical training programme at the time of enrolling.

Applicants from outside the UK must have completed a minimum of two years of core training in the surgical specialties and two years of specialty training in vascular surgery before enrolling.

We may also consider your application if you undertook another training programme or are a vascular surgeon who already holds FRCS status (or equivalent); please contact us to check before you apply.

### English language requirements

See page 54.

### Fees and funding

For fees see page 54 and for funding information see page 56.

**Programme Director** Andy Tambyraja

**Email** [chminfo@rcsed.ac.uk](mailto:chminfo@rcsed.ac.uk)

# Postgraduate professional development

Postgraduate professional development (PgProfDev or PPD) is a new way of learning aimed at working professionals who want to advance their knowledge through a postgraduate-level programme, without the time or financial commitment of a full MSc or postgraduate diploma or certificate.

Individual courses on all our online programmes may be taken as credit-bearing PPD. You may take a maximum of 50 credits worth of courses through our PPD scheme. These credits will be recognised in their own right at postgraduate level, or may be put towards gaining a higher award, such as a postgraduate certificate or diploma or an MSc. If you choose intermittent or PPD study then your tuition fees will be charged on a course-by-course basis.

Full details can be found online:  
[www.ed.ac.uk/medicine-vet-medicine/professional-development](http://www.ed.ac.uk/medicine-vet-medicine/professional-development)



## On-campus taught masters and masters by research programmes

Our on-campus master of science (MSc) programmes are designed to develop knowledge or techniques in specialised subjects that are studied more generally at undergraduate level. They take 12 months to complete and are internationally recognised as providing a world-class, research-led teaching and training experience. They are taught through lectures, tutorials and seminars, as well as practical and lab work, and conclude with a dissertation.

A masters by research (MSc by Research) is also a 12-month programme. We offer two different types. The MSc by Research programmes listed in this section enable you to study two 20-week research projects, giving you experience of two different lab environments. They also contain a significant taught element, such as seminars and core skills training. The exception to this is the medical sciences programme (see page 24) which begins with a month of teaching before you spend the rest of the year in one lab. Alternatively, we offer pure research MSc by Research programmes (see pages 32-45) where you will spend 12 months in one lab working on one project.

We also offer other programmes including the master of medical science (MMedSci), master of clinical dentistry (MClinDent) and master of public health (MPH).

On all our programmes you will be part of a thriving postgraduate community, with opportunities to participate in a wide variety of academic and non-academic extra-curricular activities to enhance your student experience. Every programme has an experienced team of programme director, coordinator and administrator, and each student has a personal tutor, so you will be fully supported in all aspects of your student experience.

[www.ed.ac.uk/pg/244](http://www.ed.ac.uk/pg/244)

### Biomedical Sciences (Life Sciences)

MSc by Research 1 yr FT

#### Programme description

This one-year, full-time programme provides an excellent grounding for PhD or other academic study in the biomedical sciences. You will learn valuable research skills, biomedical laboratory techniques and other transferable skills that will give you an advantage for the rest of your career. You can also choose two themes, one each semester, that best suit your interests and career goals.

#### Programme structure

The programme includes core skills training, seminars, taught courses and laboratory projects in our world-recognised research facilities. Students will carry out two 20-week research projects; a research proposal is prepared for the second project.

#### PROJECT 1 (SEPTEMBER TO FEBRUARY)

Courses previously offered include: *Cardiovascular Biology; Cell Communication; Genomics & Biological Pathways; Infectious Diseases; Mechanisms of Inflammatory Disease; Reproductive Science 1; Stem Cells, Tissue injury and Regenerative Medicine.*

#### PROJECT 2 (APRIL TO AUGUST)

Courses previously offered include: *Biological Architecture; Biomedical Imaging; Cancer Biology; Genes & Disease; Genomic Technologies; Molecular & Cellular Mechanism of Inflammation; Reproductive Science 2.*

You may also be able to undertake projects in integrative neuroscience or in other areas of biomedical sciences, with the permission of the Programme Director. You will also be required to attend the taught element of another theme as appropriate.

#### RESEARCH PROPOSAL

Students submit a research proposal based on the work performed for Project 2. This takes the form of a grant application, as would be prepared for a research organisation, and is assessed.

#### Career opportunities

This programme is an excellent stepping stone to a PhD, or a career in biomedical research or industry. Most of our recent graduates are pursuing further research, working for universities, research institutes and pharmaceuticals companies in the UK, US and Asia.

#### Entry requirements

A UK 2:1 honours degree, or its international equivalent ([www.ed.ac.uk/international/graduate-entry](http://www.ed.ac.uk/international/graduate-entry)), in biological, chemical or physical sciences.

#### English language requirements

See page 54.

#### Fees and funding

For fees see page 54 and for funding information see page 56.

**Programme Director** Andrew Hall

**Email** [a.hall@ed.ac.uk](mailto:a.hall@ed.ac.uk)

[www.ed.ac.uk/pg/205](http://www.ed.ac.uk/pg/205)

### Cardiovascular Biology

MSc by Research 1 yr FT

#### Programme description

The aim of this programme is to give you a broad-based training in biomedical research, with a focus on cardiovascular science. This includes an introduction to cardiovascular development, the development of cardiovascular disease, organ function and dysfunction, and the cardiovascular system in reproduction and inflammation. You will gain an integrated view of the physiology and pathology of the cardiovascular system from both basic and clinical scientists.

#### Programme structure

You will attend research seminars and tutorials by senior clinicians and basic scientists, and conduct research projects in our internationally renowned laboratories in the Centre for Cardiovascular Science. You will also deliver research-orientated presentations and gain skills in critical reading of scientific literature and in the writing of scientific reports.

#### Career opportunities

This is the ideal programme for high-achieving students who wish to progress to a PhD in cardiovascular science.

#### Entry requirements

A UK 2:1 honours degree, or its international equivalent ([www.ed.ac.uk/international/graduate-entry](http://www.ed.ac.uk/international/graduate-entry)), in a relevant biological discipline, or a medical/veterinary degree.

#### English language requirements

See page 54.

#### Fees and funding

For fees see page 54 and for funding information see page 56.

**Programme Director** Matthew Bailey

**Email** [matthew.bailey@ed.ac.uk](mailto:matthew.bailey@ed.ac.uk)

[www.ed.ac.uk/pg/648](http://www.ed.ac.uk/pg/648)

### Human Anatomy

MSc 1 yr FT

#### Programme description

Our programme aims to improve your theoretical and practical knowledge of human anatomy and to develop your skills as an effective teacher of this subject.

This programme has two main strands. One is the in-depth study of the anatomy of the human body. This will involve the dissection of a human body over two semesters. The other is the development of different methods for teaching human anatomy. Complementing these strands will be a lecture-based embryology course providing you with an understanding of normal human development and how normal development can go wrong, manifested in commonly observed congenital abnormalities.

You will also study health and safety, and legal aspects of handling the body, and an introduction to the ethics of using bodies in medical education. The teaching component of the programme will introduce you to the various methods used in teaching anatomy, and their effectiveness. This will involve preparing and carrying out a teaching session to both small and large groups of students.

#### Programme structure

Teaching is by lectures, seminars and tutorials. The dissection component of the course will be largely self-directed but with regular lectures to complement the practical work.

There will be an opportunity to put into practice what is being learned in the teaching module by teaching students on the medical programme. There will also be guest lectures by experts in their specific field to complement the lecture course.

You have the option to finish after the second semester and graduate with a Diploma in Human Anatomy. Alternatively, to gain your masters, you need to complete a project that can be either library-based, practical-based or laboratory-based.

#### Career opportunities

This programme has been designed to help you understand and teach anatomy.

#### Entry requirements

A UK 2:1 honours degree, or its international equivalent ([www.ed.ac.uk/international/graduate-entry](http://www.ed.ac.uk/international/graduate-entry)), in a medical, biomedical, or relevant bioscience topic. We will also consider your application if you are in a profession allied to medicine.

#### English language requirements

See page 54.

#### Fees and funding

For fees see page 54 and for funding information see page 56.

**Programme Director** Lyndsay Murray

**Email** [anatomy.edinburgh@ed.ac.uk](mailto:anatomy.edinburgh@ed.ac.uk)

“I started studying the MSc Human Anatomy because I’d always wanted to do medicine, but had applied and didn’t get in. I have now got a place to study medicine but, as I enjoyed my masters so much, I intend to go into some kind of medical education, as well as being a practising doctor, when I graduate.”

**Chloe Gelder**, MSc Human Anatomy graduate

[www.ed.ac.uk/pg/245](http://www.ed.ac.uk/pg/245)

## Medical Sciences

MMedSci by Research 1 yr FT (2 yrs PT available for UK/EU students)

### Programme description

The Master of Medical Sciences programme is the only one of its kind in the UK and is proven to give graduates the competitive edge in the job market. It's designed for high-achieving medicine graduates who want to explore and benefit from medical research, perhaps with a view to pursuing a PhD or a career in research. We offer you the opportunity to undertake a research project in a laboratory or department relevant to your specialism. The choice of research projects carried out is wide and ranges from bench research to clinical research. You will need to secure a supervisor and project before starting the programme.

### Programme structure

The programme begins with a month of teaching, providing you with an overview of the whole range of techniques used in medical research. In the first two weeks you will attend lectures on subjects ranging from stem cell biology to ethics and clinical trials. You will also receive statistics training and will attend practical workshops in cell biology and molecular medicine. While you are learning these subjects you will be taught practical techniques, including basic tissue culture, and how to run polymerase chain reactions and western blots.

Around 20 per cent of the course will consist of taught classes and seminars. The rest is spent in your host department. To consider your research interests and opportunities we advise you to visit Edinburgh's Clinical Academic Training centre (ECAT) [www.ecat.ed.ac.uk](http://www.ecat.ed.ac.uk) or speak to the Programme Director.

### Career opportunities

Around a quarter of our students continue to PhD study. Those who choose to return to clinical practice do so with a broader experience of research than is afforded by the undergraduate clinical medicine curriculum. As an example, we have graduates who completed the programme working as MD, orthopaedic registrar and paediatrics resident.

### Entry requirements

A UK 2:1 honours degree, or its international equivalent ([www.ed.ac.uk/international/graduate-entry](http://www.ed.ac.uk/international/graduate-entry)).

### English language requirements

See page 54.

### Fees and funding

For fees see page 54 and for funding information see page 56.

**Programme Director** Richard Weller  
**Email** [richard.weller@ed.ac.uk](mailto:richard.weller@ed.ac.uk)

*"It's easy to find your place here."*

**Artemis Papadaki-Anastasopoulou,**  
MSc by Research Integrative Neuroscience

[www.ed.ac.uk/pg/196](http://www.ed.ac.uk/pg/196)

## Neuroscience (Integrative Neuroscience)

MSc by Research 1 yr FT

### Programme description

This is a one-year, full-time research programme covering all levels of modern neuroscience, which makes it an ideal programme to prepare you for a PhD. We include molecular, cellular, systems, regenerative, cognitive, clinical and computational neuroscience. We also allow you to choose your specialism right from the start, allowing you to shape your learning around your interests and career goals.

### Programme structure

You will start with a taught component in the first 12 weeks, and attend 'themed weeks', which run in parallel with option courses.

#### OPTION COURSES PREVIOUSLY OFFERED INCLUDE:

*Developmental Neurobiology; Neural Circuits; Neurodegeneration and Regeneration.*

The option courses run during the first 12 weeks on two half-days a week. These will give you a deeper insight into the concepts and methodology of a specific field of interest.

#### RESEARCH PROJECT

For your research you can choose available projects or contact principal investigators from more than 120 groups in the Edinburgh neuroscience community to develop your own project, on any topic chosen from a broad range, from psychology to nanoscience.

### Career opportunities

This programme is designed to help you in your research career. More than 90 per cent of students on the MSc by Research in Integrative Neuroscience have achieved positive next destinations, including PhD, research or clinical career paths.

### Entry requirements

A UK 2:1 honours degree, or its international equivalent ([www.ed.ac.uk/international/graduate-entry](http://www.ed.ac.uk/international/graduate-entry)), in biological sciences (including neuroscience) or a medical, dental or veterinary degree.

### English language requirements

See page 54.

### Fees and funding

For fees see page 54 and for funding information see page 56.

**Programme Director** Thomas Becker  
**Email** [thomas.becker@ed.ac.uk](mailto:thomas.becker@ed.ac.uk)

[www.ed.ac.uk/pg/441](http://www.ed.ac.uk/pg/441)

## Oral Surgery

MCLinDent 2 yrs FT

### Programme description

This programme is for dental surgery graduates who wish to extend their knowledge, clinical practice experience and expertise in oral surgery.

The programme will give you theoretical and practical understanding of oral surgery and how it relates to other dental specialities. The syllabus includes components of the core competencies for oral surgery training for the General Dental Council and Royal College of Surgeons of England guidelines:

- Extraction of teeth and retained roots/pathology.
- Management of associated complications including oro-antral fistula.
- Management of odontogenic and all other oral infections.
- Management of impacted teeth.
- Management of complications.
- Peri-radicular surgery.
- Dentoalveolar surgery in relation to orthodontic treatment.
- Intra-oral and labial biopsy techniques.
- Treatment of intra-oral benign and cystic lesions of hard and soft tissues.
- Management of benign salivary gland disease by intra-oral techniques and familiarity with the diagnosis and treatment of other salivary gland diseases.
- Insertion of osseointegrated dental implants including bone augmentation and soft tissue management.
- Appropriate pain and anxiety control including the administration of standard conscious sedation techniques.
- Management of adults and children as inpatients, including the medically at-risk patient.
- Management of dento-alveolar trauma and familiarity with the management and treatment of fractures of the jaws and facial skeleton.
- Management of oro-facial pain including temporomandibular joint disorders.
- Clinical diagnosis of oral cancer and potentially malignant diseases, familiarity with their management and appropriate referral.
- The diagnosis of dentofacial deformity and familiarity with its management and treatment.
- Diagnosis of oral mucosal diseases and familiarity with their management and appropriate referral.
- Control of cross-infection.
- Medico-legal aspects of oral surgery.

### Programme structure

You will participate in lectures, seminars and a rehearsal of procedures in the clinical skills laboratory. You will also undertake an integrated programme of theoretical, clinical and laboratory teaching.

### Career opportunities

This programme has been designed for dental surgery graduates who wish to specialise in oral surgery.

### Entry requirements

A primary dental qualification (such as a Bachelor of Dental Surgery), or its international equivalent ([www.ed.ac.uk/international/graduate-entry](http://www.ed.ac.uk/international/graduate-entry)), plus a minimum of two years' postgraduate experience. You must meet our English language requirements before your application will be considered. All successful applicants will be required to join Disclosure Scotland's Protecting Vulnerable Groups (PVG) Scheme before starting the programme. In addition, all applicants who do not live in the UK, or who have spent more than a year abroad, will need to provide equivalent verification from the relevant national authority.

### English language requirements

See page 54.

### Fees and funding

For fees see page 54 and for funding information see page 56.

**Programme Director** Norma O'Connor  
**Email** [epdi@ed.ac.uk](mailto:epdi@ed.ac.uk)



www.ed.ac.uk/pg/227

## Orthodontics

MClinDent 2 yrs FT

### Programme description

The Specialist Advisory Committee in Orthodontics has approved this degree as part of the training programme in orthodontics. It provides you with a deeper understanding of, and further technical and diagnostic skills in, orthodontics. It involves a large clinical component as well as your own research project.

You will learn to:

- diagnose anomalies of the dentition;
- detect development deviations;
- formulate a treatment plan and predict its course;
- evaluate the need for orthodontic treatment;
- carry out treatment using fixed, functional and removable appliances; and
- treat adults, orthognathic, surgical cases and cleft-palate patients.

In addition to developing your scientific approach, the programme will teach you the psychological aspects of treatment.

### Programme structure

The programme begins with an introduction of core topics, followed by an introduction to our laboratory facilities and the basics of wire-bending skills, appliance design and appliance construction and mechanics. Clinical patient care is also established early within the first term.

This is followed by five structured terms of theoretical seminars and tutorials, with diagnostic tests on your knowledge carried out regularly. There are written examinations at the end of each term. You must pass the written examinations at the end of the first year before proceeding to the second year.

Your final MClinDent examination will consist of written examinations, diagnostic tests, case presentations, and the presentation of your research dissertation.

### Career opportunities

This programme has been designed for orthodontist specialists.

### Entry requirements

A primary dental qualification (such as a Bachelor of Dental Surgery), or its international equivalent ([www.ed.ac.uk/international/graduate-entry](http://www.ed.ac.uk/international/graduate-entry)), plus a minimum of two years' postgraduate experience. You must meet our English language requirements before your application will be considered.

All successful applicants will be required to join Disclosure Scotland's Protecting Vulnerable Groups (PVG) Scheme before starting the programme. In addition, all applicants who don't live in the UK, or who have spent more than a year abroad, will need to provide equivalent verification from the relevant national authority.

### English language requirements

See page 54.

### Fees and funding

For fees see page 54 and for funding information see page 56.

**Programme Director** Niall McGuinness

**Email** [epdi@ed.ac.uk](mailto:epdi@ed.ac.uk)

www.ed.ac.uk/pg/228

## Paediatric Dentistry

MClinDent 2 yrs FT

### Programme description

This programme is approved as part of the training programme in paediatric dentistry by the Specialist Advisory Committee in Paediatric Dentistry, for those in possession of a training number awarded by the Postgraduate Dental Dean for Scotland.

Our programme will develop your knowledge and skills in all areas of paediatric dentistry, including diagnosis, treatment planning, clinical skills and all aspects of patient management. You will also complete a supervised piece of research and learn research methodology, data analysis and the ability to report results appropriately.

Your syllabus will include:

- a clinical skills course;
- examination of the child and adolescent;
- the management of anxious children and adolescents;
- dental caries and periodontal disease in the child and adolescent;
- restorative management of the primary dentition;
- examination, diagnosis and management of dento-alveolar trauma;
- advanced restorative dentistry for children and adolescents;
- management of medically, physically and intellectually compromised patients;
- paediatric oral medicine, oral surgery and oral pathology;
- basic principles of orthodontics;
- comprehensive treatment planning for the child and adolescent; and
- research methods, basic statistics, critical appraisal, clinical governance and clinical audit.

### Programme structure

We start with an introductory programme of lectures, seminars and rehearsal for procedures in the clinical skills laboratory. This is followed by five structured terms, which will cover the clinical care of patients, seminars, journal clubs and trauma discussion groups, plus your supervised research dissertation. There are examinations at the end of each term and regular essay and critical appraisal exercises.

### Career opportunities

This programme has been designed for those practitioners ready to specialise in paediatric dentistry.

### Entry requirements

A primary dental qualification (such as a Bachelor of Dental Surgery), or its international equivalent ([www.ed.ac.uk/international/graduate-entry](http://www.ed.ac.uk/international/graduate-entry)), plus a minimum of two years' postgraduate experience. You must meet our English language requirements before your application will be considered.

All successful applicants will be required to join Disclosure Scotland's Protecting Vulnerable Groups (PVG) Scheme before starting the programme. In addition, all applicants who do not live in the UK, or who have spent more than a year abroad, will need to provide equivalent verification from the relevant national authority.

### English language requirements

See page 54.

### Fees and funding

For fees see page 54 and for funding information see page 56.

**Programme Director** Antoniella Busuttill-Naudi

**Email** [epdi@ed.ac.uk](mailto:epdi@ed.ac.uk)

**Key** FT: Full time. PT: Part time.

www.ed.ac.uk/pg/229

## Prosthodontics

MClinDent 2 yrs FT

### Programme description

Our MClinDent is recognised by the Royal College of Surgeons of Edinburgh as being two of the three years of specialist training you require if you wish to sit the Membership in Prosthodontics (the UK specialist qualification in the discipline). The Specialist Advisory Committee in Restorative Dentistry also approves this programme as part of the training programme in Prosthodontics, if you have a training number awarded by the Postgraduate Dental Dean for Scotland.

The programme addresses five components:

- the scientific basis of prosthodontic care;
- the relationship of other dental disciplines to prosthodontic care;
- diagnosis and treatment planning for patients with advanced prosthodontic problems;
- the clinical treatment of patients with advanced prosthodontic problems; and
- clinical treatment involving combined prosthodontic and other dental therapy.

### Programme structure

The programme has three major teaching strands. These include seminars and practical classes, supervised clinical and laboratory practice where treatment planning, clinical procedures and technical work are performed for selected cases, and finally a research investigation, which will lead to your dissertation.

### Career opportunities

This programme has been designed to help you specialise in prosthodontics.

### Entry requirements

A primary dental qualification (such as a Bachelor of Dental Surgery), or its international equivalent ([www.ed.ac.uk/international/graduate-entry](http://www.ed.ac.uk/international/graduate-entry)), plus a minimum of two years' postgraduate experience.

All successful applicants will be required to join Disclosure Scotland's Protecting Vulnerable Groups (PVG) Scheme before starting the programme. In addition, all applicants who do not live in the UK, or who have spent more than a year abroad, will need to provide equivalent verification from the relevant national authority.

### English language requirements

See page 54.

### Fees and funding

For fees see page 54 and for funding information see page 56.

**Programme Director** Krish Bhatia

**Email** [epdi@ed.ac.uk](mailto:epdi@ed.ac.uk)

www.ed.ac.uk/pg/203

## Public Health

MPH 1 yr FT (2 yrs PT available for UK/EU students)

### Programme description

Public Health is about preventing disease, prolonging life and promoting health through the efforts of society. This is the ideal programme if you are a professional or new to the subject and you wish to address today's problems in public health.

You will gain an understanding of how different scientific disciplines can be used to investigate and then develop the best professional practice in epidemiology, public health and social science, ethics and health. This programme is based in the Usher Institute for Population Health Sciences and Informatics, an interdisciplinary research hub which draws together researchers, clinicians and practitioners from public health, primary care, medical informatics and biomedical and social sciences. The Institute incorporates three research centres: the Centre for Population Health Sciences, the Centre for Medical Informatics and the Centre for Global Health Research. The last of these is also a WHO Collaborating Centre for Population Health Research and Training.

In addition, the programme is affiliated with the University's Global Health Academy: [www.ed.ac.uk/global-health](http://www.ed.ac.uk/global-health)

### Programme structure

The year is divided into two semesters of taught courses, followed by completion of a dissertation between May and August. Teaching is by lectures, seminars and workshops. Course assessments are mainly essay-based, with a few examinations and presentations. Your dissertation can involve either a review of existing research or analysis of data from a secondary source or data collected especially for your dissertation.

#### COMPULSORY COURSES PREVIOUSLY OFFERED INCLUDE:

*Introduction to Epidemiology; Introduction to Qualitative Research; Introduction to Research Ethics; Introduction to Statistics; Introduction to Systematic Reviews.*

#### OPTION COURSES PREVIOUSLY OFFERED INCLUDE:

*Advanced Protocol Development; Clinical Trials; Communicable Disease Control and Environmental Health; Developing and Evaluating Complex Public Health Interventions; Epidemiology of Chronic Diseases; Epidemiology for Public Health; Further Statistics; Genetic Epidemiology; Global Health Epidemiology; Health Promotion; Introduction to Global Health; Investing in Global Health and Development; Public Health Ethics; Qualitative Research in Health; Resource Allocation & Health Economics; Sociology of Health & Illness; Statistical Modelling.*

### Career opportunities

This programme will prepare you for a career in research or academia, professional public health service, clinical epidemiology, health technology assessment, public health protection and a wide range of national and international organisations concerned with preventing disease and improving the health of populations.

### Entry requirements

A UK 2:1 honours degree, or its international equivalent ([www.ed.ac.uk/international/graduate-entry](http://www.ed.ac.uk/international/graduate-entry)), in medicine, nursing, social science, science, biomedicine, or other related discipline.

### English language requirements

See page 54.

### Fees and funding

For fees see page 54 and for funding information see page 56.

**Programme Director** Niall Anderson

**Email** [cphs.pg@ed.ac.uk](mailto:cphs.pg@ed.ac.uk)

www.ed.ac.uk/pg/797

## Regenerative Medicine: Clinical & Industrial Delivery

MSc 1 yr FT

### Programme description

The pharmaceutical and life sciences industries are investing in stem cells, either in direct applications where the stem cells themselves would be used for therapy or indirectly, where stem cell derived tissues will be used for drug screening and toxicity testing. This programme is intended to meet current and future needs of the pharmaceutical industry and healthcare providers by providing a cadre of well-trained scientists capable of fulfilling managerial, administrative, research and technical roles within the developing commercial regenerative medicine sector.

Our programme covers key theoretical and practical aspects of the growth and maintenance of pluripotent stem cell lines, the directed differentiation of these cells into defined tissue phenotypes, and the maintenance of the differentiated state under conditions suitable for drug testing/screening programmes. Essential elements of good practice will also be included, such as quality assurance and the regulatory framework that surrounds the derivation, storage and use of human cells.

Our teaching is multidisciplinary, with contributions from the fields of medicine, biology, chemistry and bioinformatics.

### Programme structure

The programme contains both taught and independent project components.

#### COMPULSORY COURSES PREVIOUSLY OFFERED INCLUDE:

*Fundamental Biology of Stem Cells; Basic Techniques in Regenerative Medicine; Stem Cells and Regenerative Medicine; Production of Differentiated Cells; Regenerative Medicine and the Clinic or Regenerative Medicine and Industry; Industrial placement.*

### Placement

There will be an industrial placement of three months, situated within a life sciences company specialising in aspects of regenerative medicine. Financial assistance may be available to cover travel expenses to the location of the industrial placement.

### Career opportunities

Graduates will be equipped for a variety of roles within the developing commercial regenerative medicine sector.

### Entry requirements

A UK 2:1 honours degree, or its international equivalent ([www.ed.ac.uk/international/graduate-entry](http://www.ed.ac.uk/international/graduate-entry)), in a relevant biological discipline, or a medical/veterinary degree.

### English language requirements

See page 54.

### Fees and funding

For fees see page 54 and for funding information see page 56.

**Programme Director** Paul Travers

**Email** paul.travers@ed.ac.uk

www.ed.ac.uk/pg/204

## Reproductive Sciences

MSc by Research 1 yr FT

### Programme description

This MSc by Research programme aims to introduce you to modern molecular and cellular biological research in the field of reproductive sciences, reproductive health and reproductive medicine in a stimulating, challenging and vibrant research atmosphere, at the interface between basic science and clinical patient care. The programme is intended for high-achieving students with biological science, medical or veterinary backgrounds.

Research topics offered include problems in all reproductive organs, and throughout pregnancy and labour, in the fetus and neonate, and in fetal programming resulting in increased risk of chronic disease in adulthood. The MRC Centre for Reproductive Health (CRH) has close links with other internationally recognised research centres. Many student projects are organised with these centres, reflecting the interdisciplinary research environment, where students and trainees are regarded as the lifeblood of the future. Research at the CRH addresses questions of crucial importance to reproductive health that have implications for resilience and repair in other organs.

### Programme structure

The programme provides a core grounding in basic science and interlinked medical aspects of reproductive sciences. It is delivered through a two-week laboratory skills training course, followed by two 20-week laboratory-based research projects. These projects provide you with hands-on laboratory experience and training in a wide range of techniques in molecular and cellular biology. You will also gain professional and scientific skills such as effective communication, and scientific writing through project reports and a grant application.

Alongside the project work there is a series of lecture courses and seminars delivered by internationally recognised experts, together with both staff- and student-led small-group tutorials.

### Career opportunities

This programme is the ideal route for those wishing to embark on a PhD, or in a technical laboratory role, in the field of reproductive health, spanning the biosciences, clinical and veterinary fields. The skills gained are also readily transferable into careers at the clinical-laboratory interface and in the broader biosciences industry. This programme does not amount to training to become a clinical embryologist.

### Entry requirements

A UK 2:1 honours degree, or its international equivalent ([www.ed.ac.uk/international/graduate-entry](http://www.ed.ac.uk/international/graduate-entry)), in a relevant biological, medicine or veterinary medicine discipline.

### English language requirements

See page 54.

### Fees and funding

For fees see page 54 and for funding information see page 56.

**Programme Director** Sander van den Driesche

**Email** s.vandendriesche@ed.ac.uk

Key FT: Full time. PT: Part time.

www.ed.ac.uk/pg/790

## Science Communication & Public Engagement

MSc 1 yr FT

### Programme description

The field of science communication and public engagement with science is currently enjoying unprecedented growth. This is driven by a greater need to demonstrate the impact of publicly funded research, the need for research to be valued and a desire for a stronger evidence base for policy.

Many career opportunities are emerging at the interface between scientific research and various public groups. You will experience a variety of science communication and public engagement methodologies and you will engage with current science communication challenges. In the process, you will develop your ability to think critically and to effectively reflect on your practice. The learning from one course is transferable to other courses, thus ensuring interconnection across the programme.

### Programme structure

This MSc is a 12-month programme, divided into three semesters. You will also complete placements in an organisational setting. Teaching methods contain a blend of lectures, individual and small-group activities, and practice-based sessions. Teaching styles will be designed to model the practices in science communication and public engagement. The final semester consists of a dissertation project which can be research-based, practical or a combination of both.

This programme is affiliated with the University's Global Academies:

[www.ed.ac.uk/global-academies](http://www.ed.ac.uk/global-academies)

#### COMPULSORY COURSES PREVIOUSLY OFFERED INCLUDE:

*Science, Society and the Media; Principles and Practice in Science Communication and Public Engagement; The Role of Social Media in Science Communication; Science Education; Dialogue for Science Communication and Public Engagement; Science Policy and Practice.*

#### PLACEMENTS

Students will also complete two placements in public engagement workplaces. The University of Edinburgh has excellent links with many organisations and opportunities for placements with National Museums Scotland, Edinburgh International Science Festival and in policy and education organisations.

### Career opportunities

There has been a significant rise in opportunities available for scientists with the specialist knowledge, skills and attributes necessary to pursue roles at the interface between scientific research and the public. Such roles might include engagement managers, and information and education officers, in environments such as museums, science centres, and higher education institutions.

### Entry requirements

A UK 2:1 honours degree, or its international equivalent ([www.ed.ac.uk/international/graduate-entry](http://www.ed.ac.uk/international/graduate-entry)), in a science-related subject. We will also consider your application if you have other qualifications at UK honours degree level and relevant experience.

### English language requirements

See page 54.

### Fees and funding

For fees see page 54 and for funding information see page 56.

**Programme Director** Elizabeth Stevenson

**Email** e.stevenson@ed.ac.uk

www.ed.ac.uk/pg/233

## Transfusion, Transplantation & Tissue Banking

MSc 3 yrs PT (available for UK/EU students)

### Programme description

This programme will give you in-depth expertise and knowledge of the science, regulations and international practices in transfusion, transplantation and tissue banking, for those aiming for more senior management roles in healthcare organisations.

The programme covers the following areas:

- fundamentals of transfusion science;
- quality and GMP;
- blood donation processing and testing;
- immunology and molecular biology of transfusion;
- clinical blood banking;
- transplantation and tissue banking;
- information technology and donation;
- biopharmaceutical transfusion and clinical trials;
- management and communication;
- governance/ethics/risks of transfusion; and
- research skills.

### Programme structure

The programme involves eight one-week courses, over two years, that combine lectures, tutorials and assessments. A variety of learning experiences and assessment tasks will stimulate interest, encourage participation and develop transferable skills. You will be required to undertake self-directed learning between courses. Throughout the programme, summative and formative assessment techniques will be employed.

After two years, you will take three exams for the diploma qualification. If you are successful, you can carry out a research project in the third year to achieve your masters qualification.

### Career opportunities

This programme is designed to help you progress within health services in the transfusion, transplantation and tissue banking fields.

### Entry requirements

A UK 2:1 honours degree, or its international equivalent ([www.ed.ac.uk/international/graduate-entry](http://www.ed.ac.uk/international/graduate-entry)), in a relevant biological science. You should also have at least two years' experience working in a relevant discipline, in a healthcare setting, and currently be working in a transfusion, transplantation or tissue banking environment. We will also consider candidates who do not meet the above qualifications provided they are practising biomedical or clinical scientists registered with the Health & Care Professions Council (HCPC) or international equivalent. In addition they must have professional qualifications to a suitable level with a relevant profession (e.g. The British Blood Transfusion, Society or the Institute of Biomedical Science). Please check with the programme team before applying as these applications are considered on a case by case basis.

### English language requirements

See page 54.

### Fees and funding

For fees see page 54 and for funding information see page 56.

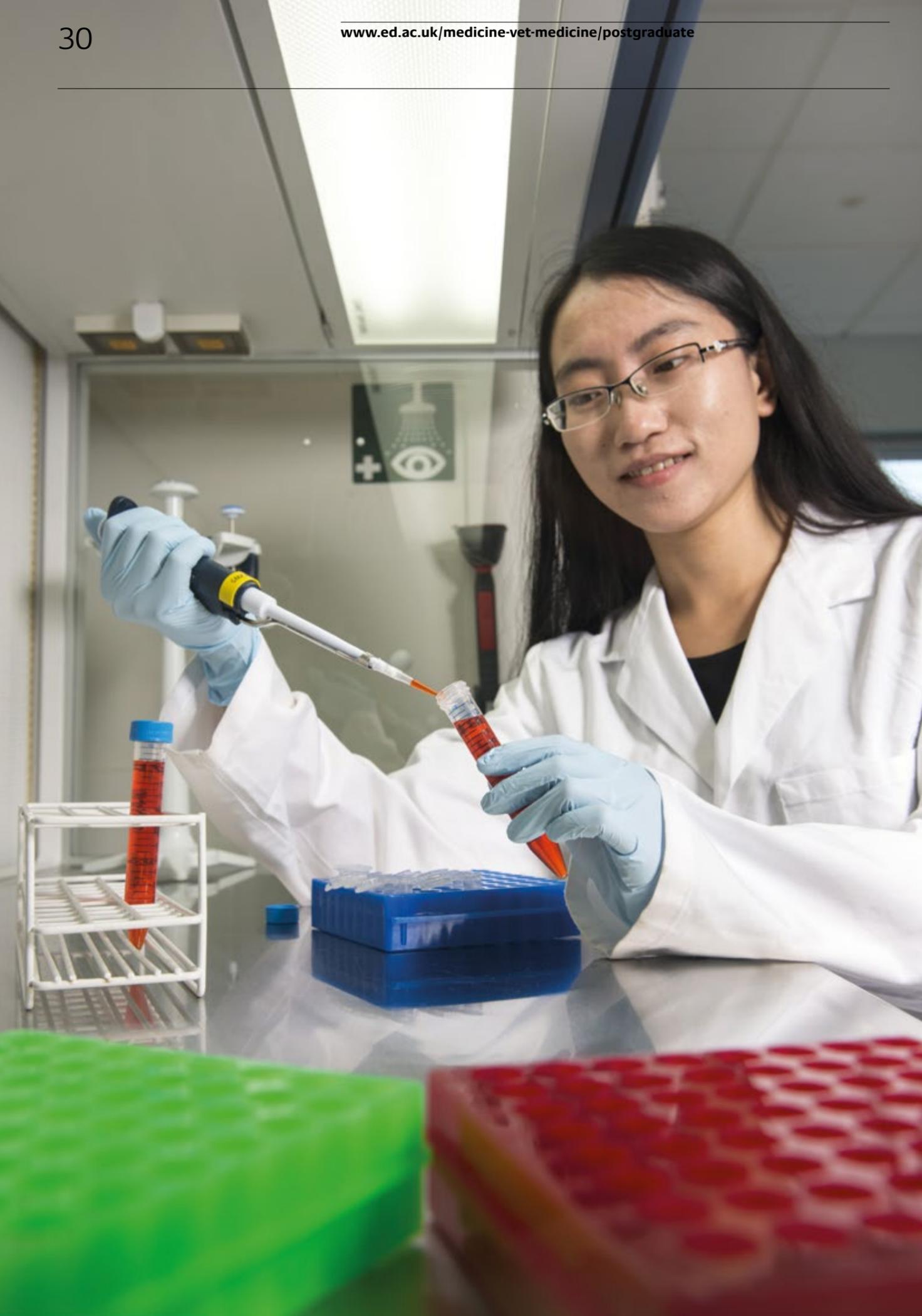
**Programme Director** Anne Thomson

**Email** anne.thomson2@nhs.net

## See also...

You may also be interested in masters programmes offered by other Schools within the University, particularly the School of Biological Sciences, the School of Chemistry, the School of Health in Social Science and the School of Social & Political Science.

[www.ed.ac.uk/studying/prospectus-request](http://www.ed.ac.uk/studying/prospectus-request)



## A world-class research experience

We produce world leading and internationally recognised research. Our research centres and institutes are based at campuses across the city, providing an exceptional environment for trainees.

### Little France campus

Our teaching and research facilities at Little France are next to the Royal Infirmary Edinburgh, a major teaching hospital that provides a full range of acute medical and surgical services for patients from across Lothian. It also offers specialist services for people from across the south-east of Scotland and beyond, and hosts Scotland's biggest maternity unit – the Simpson Centre for Reproductive Health – where more than 6,000 babies are born each year. Our researchers are based within state-of-the-art buildings including the Medical Research Council (MRC) Centre for Regenerative Medicine and the Queen's Medical Research Institute (QMRI), which hosts more than 800 researchers focusing on key research themes in inflammation, cardiometabolic risk, reproductive health and development.

### Research centres

British Heart Foundation Centre for Cardiovascular Science: [www.cvs.ed.ac.uk](http://www.cvs.ed.ac.uk)

MRC Centre for Inflammation Research: [www.cir.ed.ac.uk](http://www.cir.ed.ac.uk)

MRC Centre for Reproductive Health: [www.crh.ed.ac.uk](http://www.crh.ed.ac.uk)

Clinical Research Imaging Centre: [www.cric.ed.ac.uk](http://www.cric.ed.ac.uk)

MRC Centre for Regenerative Medicine: [www.crm.ed.ac.uk](http://www.crm.ed.ac.uk)

Translational research and innovation linking academic and clinical activities is underpinned by the Edinburgh BioQuarter, also based at Little France: [www.edinburghbioquarter.com](http://www.edinburghbioquarter.com)

### Western General campus

The Western General campus is home to the MRC Institute for Genetics & Molecular Medicine (IGMM), one of the largest centres worldwide for human genetics and human medicine and home to more than 600 research and support scientists. By pooling the resources and complementary skills of partner centres and units, the IGMM brings together distinct expertise that maximises scientific discovery and translation of science.

The IGMM broadly focuses on genes and populations, and normal and diseased cells to study development and disease mechanisms. The partner centres and units are grouped strategically to exploit common strengths in genetic and genomic analysis, and protein, cell and tissue regulation in disease, with emerging emphasis on innovative basic and translational science, from molecules to man and from populations to process.

The IGMM supports both three- and four-year PhD studentships offering an outstanding training to both basic and clinical scientists.

The MRC Institute for Genetics & Molecular Medicine: [www.igmm.ac.uk](http://www.igmm.ac.uk)

### Research centres

Edinburgh Cancer Research Centre: [www.ecrc.ed.ac.uk](http://www.ecrc.ed.ac.uk)

Centre for Genomic and Experimental Medicine: [www.cgem.ed.ac.uk](http://www.cgem.ed.ac.uk)

The MRC Human Genetics Unit: [www.hgu.mrc.ac.uk](http://www.hgu.mrc.ac.uk)

### Central Area campus

The Central Area is home to members of Edinburgh Neuroscience and the Centre for Population Health Sciences.

Edinburgh Neuroscience, which functions as a research institute 'without walls', integrates basic and clinical research in order to drive the fundamental genetic, cellular, organ, systems and computational neuroscience underpinning pathogenesis into mechanistic understanding, future diagnostics and therapeutics of important diseases of the nervous system. It consists of approximately 400 staff, 140 postdoctoral researchers, 230 PhD students and 30 MSc students, working in approximately 120 research laboratories: [www.edinburghneuroscience.ed.ac.uk](http://www.edinburghneuroscience.ed.ac.uk)

The Centre for Population Health Sciences brings together researchers with expertise in epidemiology, statistics and modelling, sociology, social policy, psychology, economics, geography, health promotion, nursing and medicine. Thus, the Centre's research projects can take advantage of a multidisciplinary approach when needed, which is often the case in population health research.

### Research centres

Centre for Clinical Brain Sciences: [www.ccbs.ed.ac.uk](http://www.ccbs.ed.ac.uk)

Centre for Cognitive and Neural Systems: [www.ccns.ed.ac.uk](http://www.ccns.ed.ac.uk)

Centre for Neuroregeneration: [www.cnr.ed.ac.uk](http://www.cnr.ed.ac.uk)

Centre for Integrative Physiology: [www.ed.ac.uk/integrative-physiology](http://www.ed.ac.uk/integrative-physiology)

Centre for Population Health Sciences: [www.cphs.mvm.ed.ac.uk](http://www.cphs.mvm.ed.ac.uk)

## Research opportunities

All of our research areas are available to study at PhD and MSc by Research level.

We offer two types of masters by research (MSc by Research) programme. Those listed in this section are pure research programmes where you will spend 12 months in one lab working on one project. This gives you an excellent grounding in research that can serve as a stepping stone to a PhD. Alternatively we offer MSc by Research programmes that contain a significant taught element (see pages 22-29), allowing you to study two 20-week research projects in two different lab environments and MMedSci by Research Medical Sciences (see page 24) which begins within a month of teaching before you spend the rest of the year in one lab.

A PhD is a research programme entailing research training and supervised research, either on an individual basis, or as part of a team. The aim of the PhD is to provide a thorough training in a particular academic area, through original investigation and experimentation. A PhD typically takes three years to complete and is assessed by thesis.

The following list of research areas we offer is not exclusive. Potential applicants should get in touch with the contacts listed under the relevant area to informally discuss their proposed project before applying.

### OPTIMA: The EPSRC and MRC Centre for Doctoral Training in Optical Medical Imaging

OPTIMA offers a PhD in Optical Medical Imaging with Integrated Study in Healthcare Innovation and Entrepreneurship. This four-year PhD with integrated study combines:

- Cutting edge research projects in the theme of Optical Medical Imaging.
- A bespoke programme of business training in healthcare innovation and entrepreneurship.

For more information see: [www.optima-cdt.ac.uk](http://www.optima-cdt.ac.uk)

### BBSRC EASTBIO Doctoral Training Partnership Shaping bioscience research training in the east of Scotland

EASTBIO DTP provides world-class bioscience doctoral training in four areas of strategic priority: basic bioscience underpinning health (ageing); bioenergy and industrial biotechnology; food security; and world-class bioscience. We offer an excellent programme of collaborative training for PhD students in Aberdeen, Dundee, Edinburgh and St Andrews, at four of the UK's leading research intensive universities. For more information see: [www.eastscotbiotp.ac.uk](http://www.eastscotbiotp.ac.uk)

### Entry requirements

You should have an undergraduate degree in medicine or veterinary medicine, or a UK 2:1 honours degree, or its international equivalent ([www.ed.ac.uk/international/graduate-entry](http://www.ed.ac.uk/international/graduate-entry)), in an appropriate subject. For PhD, a UK masters degree or equivalent may also be required. Please check the specific entry requirements for your programme online before applying. Higher qualifications such as doctor of clinical dentistry (DClinDent), doctor of dental surgery (DDS) and doctor of medicine (MD) have additional requirements. Please view their programme entries online for full details.

[www.ed.ac.uk/pg/208](http://www.ed.ac.uk/pg/208)

## Cardiovascular Science

PhD 3 yrs FT (6 yrs PT available for UK/EU students)  
MSc by Research 1 yr FT (2 yrs PT available for UK/EU students)

### Research profile

The Centre for Cardiovascular Science aims to foster and deliver research into the causes, consequences and therapy of cardiovascular diseases. We offer postgraduates the opportunity to work within internationally leading research programmes addressing fundamental development and control of the cardiovascular system and the origins and consequences of cardiovascular disease. In 2008, the Centre was designated one of four British Heart Foundation Centres of Research Excellence (CoRE) and was awarded £7.6 million over a six-year period. Major research efforts are directed at the metabolic syndrome and risk factors for cardiovascular disease, mechanisms of atheromatous plaque formation and disruption, prenatal programming of cardiovascular disease, renal dysfunction and hypertension, mechanisms of endothelial dysfunction, circadian biology and cell biology.

### English language requirements

See page 54.

### Fees and funding

For fees see page 54 and for funding information see page 56.

Contact Matthew Bailey  
Email [matthew.bailey@ed.ac.uk](mailto:matthew.bailey@ed.ac.uk)

[www.ed.ac.uk/pg/209](http://www.ed.ac.uk/pg/209)

## Child Life & Health

PhD 3 yrs FT (6 yrs PT available for UK/EU students)

### Research profile

Child Life and Health conducts research in paediatric and adolescent medicine. We seek to foster and deliver internationally leading research and training into the causes, consequences and management of childhood onset diseases as well as optimising the healthy development of children and young people.

Our main areas of research include brain and acute injury, brain and handicap, cancer and late effects, gastroenterology and nutrition, growth and endocrinology, immunology of respiratory viral infections, asthma and allergy, and surgery.

We collaborate with National Health Service (NHS) researchers including the Royal Hospital for Sick Children, the Simpson Centre for Reproductive Health and Community Paediatrics, Lothian Primary Care Trust and NHS Greater Glasgow and Clyde. We also have ongoing collaborations within the University.

### English language requirements

See page 54.

### Fees and funding

For fees see page 54 and for funding information see page 56.

Contact Jurgen Schwarze  
Email [jurgen.schwarze@ed.ac.uk](mailto:jurgen.schwarze@ed.ac.uk)

Key FT: Full time. PT: Part time.

[www.ed.ac.uk/pg/235](http://www.ed.ac.uk/pg/235)

## Clinical Brain Sciences

PhD 3 yrs FT (6 yrs PT available for UK/EU students)

### Research profile

The Centre for Clinical Brain Sciences (CCBS) is a multidisciplinary translational centre without walls that combines basic and applied research to study the causes, consequences and treatment of major brain disorders. It is a major University interdisciplinary group that comprises the Division of Clinical Neurosciences ([www.ed.ac.uk/clinical-brain-sciences](http://www.ed.ac.uk/clinical-brain-sciences)) and the Division of Psychiatry ([www.ed.ac.uk/psychiatry](http://www.ed.ac.uk/psychiatry)).

Our research approach is to integrate laboratory and clinical studies using a range of experimental tools and methodologies that include:

- human stem cells;
- disease modelling;
- advanced clinical imaging;
- epidemiological-based observational disease cohort studies;
- clinical trials – first into man and large-scale international trials; and
- systematic reviews of treatments (experimental and clinical).

As a postgraduate student you are mentored and supported by at least two supervisors and receive longer term guidance from your thesis committee. We offer a transferable skills programme and project-specific courses. PhD meetings and an annual CCBS Day offer valuable opportunities for interdisciplinary collaboration.

### English language requirements

See page 54.

### Fees and funding

For fees see page 54 and for funding information see page 56.

Contact Programme administrator  
Email [ccbs-phd@ed.ac.uk](mailto:ccbs-phd@ed.ac.uk)



[www.ed.ac.uk/pg/861](http://www.ed.ac.uk/pg/861)

## Clinical Education

PhD 3 yrs FT (6 yrs PT available for UK/EU students)

### Research profile

This PhD builds on our world-renowned expertise in the field of clinical education, and our well-established and respected Masters in Clinical Education programme.

It is ideal for those wishing to further their career in academic clinical or medical education, who already have experience of delivering education for healthcare professionals, whether students, doctors, nurses, allied health professionals, or dental or veterinary practitioners. It will appeal to those seeking leadership positions or to undertake independent high-quality research in clinical education.

Some of our current research focuses on:

- faculty development;
- assessment and feedback in medical education;
- psychometrics;
- learning outcome development and mapping;
- students learning to teach and peer-assisted learning (PAL);
- preparation for practice;
- international medical education; and
- clinical skills.

We have good collaboration between university faculty, clinicians, NHS Education for Scotland and other institutions.

### Entry requirements

A masters degree in a relevant field e.g. clinical, medical or health professions education is required as well as a primary clinical qualification, such as an MBChB, BVS, BDS, Bachelor of Nursing or other degree. Applications from those with biomedical or social science qualifications, or non-university professional qualifications such as RGN with appropriate clinical experience, may be considered. You must have experience of clinical, medical, allied healthcare or veterinary education, for example teaching undergraduate or postgraduate students.

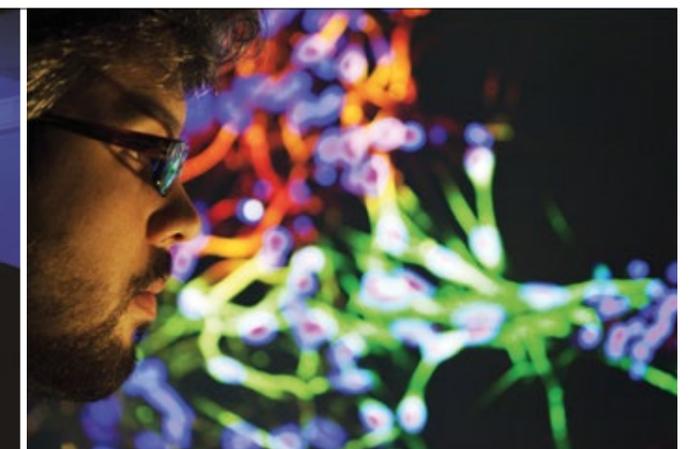
### English language requirements

See page 54.

### Fees and funding

For fees see page 54 and for funding information see page 56.

Contact Michael Ross  
Email [michael.ross@ed.ac.uk](mailto:michael.ross@ed.ac.uk)





THE UNIVERSITY of EDINBURGH

## Case study: Edinburgh's research with impact

### The GRACE risk score

There are more than 100,000 heart attacks in the UK each year, and one in five patients is likely to die within five years of their initial heart attack.

Keith Fox, Professor of Cardiology at the University's Centre for Cardiovascular Science, has dedicated more than a decade of his highly successful career to researching a critical form of cardiovascular disease, using the latest equipment and other resources at the Centre to lower the risk of heart attack in susceptible subjects.

#### Project background

Acute Coronary Syndrome (ACS), which includes heart attack and unstable angina that may lead into heart attack, is a major burden on healthcare and society around the world. Before 2000, predicting what would happen in the heart after early ACS symptoms was particularly difficult as the ACS population was uncharacterised. Clinical trials had not taken into consideration the full spectrum of patients and the diversity of clinical practice. In response to this situation, Professor Fox, and Professor Joel Gore of the University of Massachusetts, established a 10-year research programme and the largest multinational study of ACS.

#### Project results

The result is the Global Registry of Acute Coronary Events (GRACE), which provides clinicians with a powerful yet user-friendly means of identifying higher-risk patients at the time of their presentation. Using Professors Fox and Gore's GRACE risk score, eight factors – age, heart rate, systolic blood pressure, renal function, congestive heart failure, ST-segment deviation, cardiac arrest and elevated biomarkers – independently predict risk of heart attack and/or death. Through the development of the GRACE risk score, and its subsequent use worldwide, the University of Edinburgh has made an invaluable contribution to the evaluation of treatment outcomes and patient care.

**GRACE provides clinicians with a powerful yet user-friendly means of identifying higher-risk patients at the time of their presentation.**

See more online: [www.ed.ac.uk/research/impact](http://www.ed.ac.uk/research/impact)

Around 79 per cent of our research students received funding for their tuition fees in 2016/17

[www.ed.ac.uk/pg/211](http://www.ed.ac.uk/pg/211)

## Dentistry (PhD)

PhD 3 yrs FT (6 yrs PT available for UK/EU students)

#### Research profile

There are opportunities for both full-time and part-time research. In addition to our formal research programme, applications are accepted for shorter periods where a contribution can be made to one of our research themes, giving the opportunity for development of research skills. Our research programmes provide training in specific research methodologies. Those registered for formal research programmes also have the opportunity for formal generic training in research skills, provided within the College.

#### English language requirements

See page 54.

#### Fees and funding

For fees see page 54 and for funding information see page 56.

**Contact** Jackie McGurk

**Email** [epdi@ed.ac.uk](mailto:epdi@ed.ac.uk)

Key FT: Full time. PT: Part time.

[www.ed.ac.uk/pg/901](http://www.ed.ac.uk/pg/901)

## Dentistry (DClinDent)

DClinDent 12-36 mths FT

Oral Surgery; Orthodontics; Paediatric Dentistry; Prosthodontics

#### Programme description

Our DClinDent programmes in oral surgery, orthodontics, paediatric dentistry and prosthodontics are suitable for individuals already holding a taught MClintDent/MSc. They allow the pursuit of specialist training, attainment of a taught professional doctorate in the chosen clinical discipline and preparation for the Speciality Membership Examinations of one of the Royal College of Surgeons.

These programmes provide doctoral level educational opportunities to enable you to develop, consolidate and enhance your range of academic and clinical competencies to enable independent and reflective practice at the standard of a specialist in each clinical discipline.

The duration of the DClinDent for each discipline will be 36 months, offered on a full-time basis only. Those entering with a MClintDent/MSc from another UK/EU or international institution with at least 240 credits held at Level 12 in the relevant MClintDent/MSc will only be required to study for 12 months.

Each programme will be structured over three semesters and during this time, you will be timetabled to four protected academic sessions each week with the remaining time dedicated to primarily independent clinical practice and interdisciplinary patient management.

Each programme will consist of the following four academic and clinical elements: *Systematic Review*; *Specialist-Level Clinical Care*; *Clinical Governance Project*; *Specialist-Level Clinical Case-Reports*.

#### Entry requirements

Successful completion of the first two years of the MClintDent programme from the University of Edinburgh, comprising 360 SCQF credits with 240 held at Level 12, or a taught MClintDent/MSc from another institution with a total of 360 SCQF credits, at least 240 of which held at Level 12.

All successful applicants will be required to join Disclosure Scotland's Protecting Vulnerable Groups (PVG) Scheme before starting the programme. In addition, all applicants who do not live in the UK, or who have spent more than a year abroad, will need to provide equivalent verification from the relevant national authority.

#### English language requirements

See page 54.

#### Fees and funding

For fees see page 54 and for funding information see page 56.

**Contact** Jennie Foley

**Email** [epdi@ed.ac.uk](mailto:epdi@ed.ac.uk)

The University of Edinburgh  
Medicine Postgraduate Opportunities 2018

[www.ed.ac.uk/pg/889](http://www.ed.ac.uk/pg/889)

## Doctor of Dental Surgery

DDS 2 yrs FT (3-4 yrs PT available for UK/EU students)

#### Programme description

This is a research-based qualification that can be taken either full-time or part-time. The programme is aimed at those in the dental profession who wish to develop high-level research skills by pursuing original research in the field of study, relating particular research to the general body of knowledge in the field, and presenting the results of the researches in a critical and scholarly way.

Edinburgh Dental Institute (EDI) works in partnership with two major organisations to deliver high-quality education, research and patient care.

The activities of EDI are as a result of strong cooperation and collaboration between the University of Edinburgh, NHS Lothian, NHS Education for Scotland and the Royal College of Surgeons of Edinburgh.

#### Training

Our welcoming and friendly environment offers great opportunities for high-quality education and research. Our transferable skills programme delivers generic training in presentation, project management and writing skills.

#### Facilities

The EDI was established in 1999 to develop education opportunities for dental postgraduates and the dental team.

We have excellent facilities and are situated centrally within the historic and vibrant capital of Scotland.

We are located in Lauriston Place in central Edinburgh and occupy the top three floors of the Lauriston Building, a dedicated outpatient centre for dentistry and a number of other medical disciplines.

#### Entry requirements

You must:

- hold a UK 2:1 honours degree, or its international equivalent ([www.ed.ac.uk/international/graduate-entry](http://www.ed.ac.uk/international/graduate-entry));
- have a qualification that is registrable with either the General Dental Council or the General Medical Council or both;
- have at least two years' experience in scientific work bearing directly on your profession, or in the practice of dentistry or other related disciplines;
- perform your research in Borders, Fife or Lothian Health Boards; and
- be employed by the University of Edinburgh or the NHS, or be a research worker employed, self-financed or grant-funded at the University of Edinburgh, an associated institution or an NHS establishment.

#### English language requirements

See page 54.

#### Fees and funding

For fees see page 54 and for funding information see page 56.

**Programme Director** Professor Angus Walls

**Tel** +44 (0)131 536 3979

**Email** [epdi@ed.ac.uk](mailto:epdi@ed.ac.uk)

www.ed.ac.uk/pg/833

## Doctor of Medicine

MD 2 yrs FT (3 or 4 yrs PT available for UK/EU students)

### Research profile

The MD is a higher qualification undertaken by clinically qualified staff normally during their postgraduate medical training. A thesis for the award of MD must deal with one or more of the subjects of study in the curriculum for the programmes of MBChB or with subjects arising directly from contemporary medical practice. We cover cancer, cardiovascular, clinical brain sciences, cognitive and neural systems, genetics, infectious diseases, inflammation, molecular medicine, neuroscience, population health sciences, regenerative medicine and reproductive health.

### Entry requirements

You must:

- have a UK 2:1 honours degree, or its international equivalent;
- have a qualification that is registrable with the General Medical Council;
- have at least one year of experience in scientific work bearing directly on your profession, or in the practice of medicine or surgery; and
- work in the South East of Scotland, either employed as a member of staff of the University of Edinburgh, or as an NHS employee, or as a research worker employed or self-financed or grant-funded, in the University of Edinburgh or an associated institution or an NHS establishment.

### English language requirements

See page 54.

### Fees and funding

For fees see page 54 and for funding information see page 56.

**Contact** Paul Gladwell

**Email** paul.gladwell@ed.ac.uk

www.ed.ac.uk/pg/838

## Genetics & Molecular Medicine

PhD 3 yrs FT (6 yrs PT available for UK/EU students)

MSc by Research 1 yr FT (2 yrs PT available for UK/EU students)

### Research profile

The Institute of Genetics and Molecular Medicine (IGMM) forms part of the University of Edinburgh and is a large, integrated research institute composed of the Centre for Genomic and Experimental Medicine, the MRC Human Genetics Unit, and the Edinburgh Cancer Research Centre. The IGMM's priorities are basic biomedical research through to clinical research across a wide range of themes.

Programmes of work include: genetics of common and complex human diseases, epigenetics, developmental biology and pediatrics, brain biology and disease, cancer biology and biomedical systems analysis/ computational biology. There are currently well over 100 PhD students in training across the IGMM, with a thriving postgraduate society.

### English language requirements

See page 54.

### Fees and funding

For fees see page 54 and for funding information see page 56.

**Programme Directors** Professor Nick Gilbert

**Email** nick.gilbert@ed.ac.uk

www.ed.ac.uk/pg/839

## Genomics & Experimental Medicine

PhD 3 yrs FT (6 yrs PT available for UK/EU students)

MSc by Research 1 yr FT (2 yrs PT available for UK/EU students)

### Research profile

The Centre for Genomics and Experimental Medicine (CGEM) is part of the MRC/University of Edinburgh Institute of Genetics and Molecular Medicine (IGMM).

CGEM's mission is to use genetics and genomics to understand the mechanisms of disease and design novel intervention strategies. In the last Research Assessment Exercise, the research outputs of CGEM investigators were returned in the clinical and hospital based subjects unit of assessment and received the highest possible rating.

We undertake detailed studies of populations, families and individuals to study a wide range of health-related conditions. We use state-of-the-art genetic, epigenetic, genomic, statistical, bioinformatic, biological and molecular approaches in model systems and clinical studies for systematic investigation of disease aetiology. With this knowledge, we aim to improve disease prediction, prevention and prognosis. Our translational agenda encompasses the development of new medicines and genetically informed use of existing medicines in clinical trials.

### English language requirements

See page 54.

### Fees and funding

For fees see page 54 and for funding information see page 56.

**Programme Director** Dr Kathy Evans

**Email** kathy.evans@igmm.ed.ac.uk

Key FT: Full time. PT: Part time.

www.ed.ac.uk/pg/214

## Geriatric Medicine

PhD 3 yrs FT (6 yrs PT available for UK/EU students)

### Research profile

Our research activities and collaborations span preclinical science, experimental medicine and clinical trials, with the focus on the key geriatric syndromes of cognitive impairment, stroke and frailty, each a leading cause of morbidity. Our work also encompasses the broader field of healthy ageing.

The research programmes in geriatric medicine have their main bases in three hospitals:

#### Royal Infirmary of Edinburgh

Here, researchers study the effects of use, disuse, ageing, and disease on muscle structure and function. In addition, work continues on the development of casemix-adjusted outcome assessment to facilitate increasingly sophisticated comparisons of hip fracture care in different centres. The Royal Infirmary is also the base for studies investigating the role of fitness training after stroke, the effect of stroke on muscle function and fatigue after stroke, in close collaboration with the Centre for Clinical Brain Sciences; and for new studies investigating the role of glucocorticoids in the aetiology of delirium following surgery.

#### Western General Hospital

Here, you'll have the opportunity to work with researchers studying brain ageing and its disorders, the SFC Brain Imaging Research Centre and the MRC Human Genetics Unit, examining factors influencing age-associated changes in cognitive function, including early life influences. There are also studies of the health of older adults with learning disabilities.

#### Borders General Hospital

Borders General Hospital in Melrose, a town in the Scottish Borders, is the base for Scotland's first comprehensive stroke ascertainment study, which is creating a wide range of research opportunities, in addition to providing information crucial for service planning and development.

### English language requirements

See page 54.

### Fees and funding

For fees see page 54 and for funding information see page 56.

**Contact** Programme administrator

**Email** geriatricmedicine@ed.ac.uk

www.ed.ac.uk/pg/698

## Global Health

PhD 3 yrs FT (6 yrs PT available for UK/EU students)

### Research profile

This programme offers you the opportunity to work in a multi- and interdisciplinary way, building on your knowledge, skills, interest and passion to carry out innovative global health research that makes a new contribution to the existing knowledge base. There are many opportunities to study Global Health. Contact us with your idea and we will endeavour to match you with potential centres of excellence and supervisors. We have many research priorities, including such global health issues as:

- mapping and measuring the shifting burden of global disease;
- neglected and emerging tropical diseases;
- infectious diseases;
- non-communicable diseases;
- global palliative care;
- population health;
- social inequalities in health;
- sexual and reproductive health;
- e-health and tele-medicine;
- migration and minority ethnic health;
- culture, faith and health; and
- translation of leading scientific advances into effective interventions.

This programme is affiliated with the University's Global Health Academy:

[www.ed.ac.uk/global-health](http://www.ed.ac.uk/global-health)

### English language requirements

See page 54.

### Fees and funding

For fees see page 54 and for funding information see page 56.

**Contact** Sebastien Georges

**Email** s.georges@ed.ac.uk

www.ed.ac.uk/pg/195

## Infectious Diseases

MSc by Research 1 yr FT

### Programme description

This programme offers research opportunities from across Edinburgh Infectious Disease (EID), an organisation that brings together more than 150 principal investigators and more than 760 active researchers across the spectrum of infectious disease science and clinical medicine at Edinburgh.

Previous students have undertaken projects in the following areas:

- antibiotic resistance and healthcare-associated infections;
- arthropod vector biology and vector borne diseases;
- epidemiology and mathematical modelling of animal and human infections;
- functional genomics and bioinformatics;
- molecular diagnosis and point-of-care detection of infectious diseases;
- the immunology of bacterial and parasitic infections;
- the pathogenesis of viral diseases (animal and human, including herpes and HIV).

### Programme structure

The learning process centres upon a one-year research project. In addition, you will be required to attend local research seminars and lectures related to your area of research, and encouraged to attend those events organised by EID and the Global Health Academy more generally. Training will also be available in generic skills including statistics; project management and planning; and oral and written presentational skills.

### Career opportunities

This postgraduate programme provides an introduction to research methodologies for biologists, medics and veterinarians. Many of our recent graduates have taken this programme as a stepping stone to PhD study; or have chosen a career in research or industry.

### Entry requirements

A UK 2:1 undergraduate degree, or its international equivalent (see [www.ed.ac.uk/international/graduate-entry](http://www.ed.ac.uk/international/graduate-entry)), in a relevant subject.

### English language requirements

See page 54.

### Fees and funding

For fees see page 54 and for funding information see page 56.

**Programme Director** Kim Picozzi

**Email** [kim.picozzi@ed.ac.uk](mailto:kim.picozzi@ed.ac.uk)

www.ed.ac.uk/pg/215

## Inflammation

PhD 3 yrs FT (6 yrs PT available for UK/EU students)  
MSc by Research 1 yr FT (2 yrs PT available for UK/EU students)

### Research profile

The Centre for Inflammation Research (CIR) was established in 1998. It aims to promote the prevention, diagnosis and treatment of inflammatory diseases through interdisciplinary study of the initiation, regulation and resolution of inflammatory responses and provision of an outstanding environment for research training in the field. CIR investigators aim to characterise and manipulate key control points in inflammation. We focus on inhibiting the initiation of inflammation by blocking immunologically specific triggers and by modulating cellular and tissue responses to injurious stimuli; finding new approaches to promote beneficial regulation of established inflammatory responses so as to limit tissue injury; and promoting safe resolution of inflammation and restoration of the structure and function of the perturbed tissue. We have particular interest in inflammatory diseases of the lung and kidney but the principles derived will have ready application to inflammatory responses in the liver, bowel, bone/joint and skin. There is also increasing research in the CIR into the links between inflammation and cancer.

### English language requirements

See page 54.

### Fees and funding

For fees see page 54 and for funding information see page 56.

**Contact** Karen Colvin

**Email** [karen.colvin@ed.ac.uk](mailto:karen.colvin@ed.ac.uk)

www.ed.ac.uk/pg/400

## Integrative Physiology

PhD 3 yrs FT (6 yrs PT available for UK/EU students)  
MSc by Research 1 yr FT (2 yrs PT available for UK/EU students)

### Research profile

The Centre for Discovery Brain Sciences (CDBS) carries out research at molecular, cellular, systems and behavioural levels to understand fundamental mechanisms and pathways relevant to brain and body function in health and disease. CDBS investigators exploit rapid advances in the enabling technologies available from genomics, proteomics, imaging, informatics, and in-vivo analysis to understand the function of gene products at the cell, organ and whole-animal level. They exploit the most appropriate model organisms/systems to investigate the delicate balance between high biomedical relevance (for example human, mouse, rat) and high genetic power (such as *C. elegans*, *drosophila* or zebrafish). Research focuses on understanding fundamental mechanisms and pathways relevant to human function in health and disease across the life course. You will have access to state-of-the-art equipment and extensive collaborations exist with the wider biomedical and clinical communities to support your research in a world-class environment. Supervisors maintain the highest standards of research training, with a strong research output in leading international journals.

### English language requirements

See page 54.

### Fees and funding

For fees see page 54 and for funding information see page 56.

**Contact** Postgraduate Secretary

**Email** [sbms-postgraduate@ed.ac.uk](mailto:sbms-postgraduate@ed.ac.uk)

**Key** FT: Full time. PT: Part time.

www.ed.ac.uk/pg/924

## Medical Informatics

PhD 3–4 yrs FT

### Programme description

Advances in data capture platforms in both medicine and life sciences, supported by modern computing and informatics, have greatly energised the overlapping fields of medical informatics and data intensive biomedicine. The Centre For Medical Informatics at the Usher Institute of Population Health Sciences and Informatics was inaugurated at The University of Edinburgh in 2015. The combination of informatics and biomedicine is fundamental for advances towards 4P medicine – personalised, predictive, preventive, and participatory.

The Centre for Medical Informatics is well placed to be a lead in medical informatics and data intensive research, and is co-located with the Farr Institute in Bioquarter Building 9. Scotland is in a leading position to exploit health data and is uniquely placed in having high-quality linkable datasets optimised for research purposes. These data are also key to the development of commercially exploitable know-how and intellectual property.

This new PhD programme will provide multidisciplinary training in medical informatics and data intensive biomedicine. A variety of projects will be offered, aligned with the research programmes of group leaders within the Usher Institute of Population Health Sciences and Informatics.

The programme will be suitable for students from a variety of academic backgrounds, such as physics, mathematics, medicine, biology, data science, epidemiology, statistics, population health and computing science. The common theme across this interdisciplinary group is to build a form of data-intensive science that acts as a driving force for new developments in medicine and healthcare.

### English language requirements

See page 54.

### Fees and funding

For fees see page 54 and for funding information see page 56.

**Contact** Sebastien Georges

**Email** [s.georges@ed.ac.uk](mailto:s.georges@ed.ac.uk)

“Postgraduate research at the College gave me the opportunity to learn different techniques and collaborate with different researchers around the world, which was invaluable. I had the chance to explore different aspects of research which helped me to choose the career path I would like to pursue. Research is great fun!”

**Dorothy Tse**, MSc by Research Neuroscience 2005,  
PhD Neuroscience 2011

www.ed.ac.uk/pg/237

## Molecular & Clinical Medicine (Edinburgh Cancer Research Centre)

PhD 3 yrs FT (6 yrs PT available for UK/EU students)  
MSc by Research 1 yr FT (2 yrs PT available for UK/EU students)

### Research profile

Edinburgh Cancer Research UK Centre (ECRC), based at the Western General Hospital, strives to take a comprehensive approach to cancer research, combining both laboratory-based research and clinical approaches.

The Centre studies the genetic and biological basis of cancer and disease pathology and devises and tests new forms of therapy arising from our basic, translational and clinical research programmes. Our aim is to carry out high-quality research into effective cancer prevention, diagnosis and treatment, as well as the symptoms associated with cancer.

### English language requirements

See page 54.

### Fees and funding

For fees see page 54 and for funding information see page 56.

**Contact** Pauline McDonald

**Email** [ecrc\\_pg\\_administration@ed.ac.uk](mailto:ecrc_pg_administration@ed.ac.uk)

www.ed.ac.uk/pg/200

## Neuroscience

PhD 3 yrs FT (6 yrs PT available for UK/EU students)  
MSc by Research 1 yr FT (2 yrs PT available for UK/EU students)

### Research profile

The Centre for Discovery Brain Sciences (CDBS) carries out research at molecular, cellular, systems and behavioural levels to understand fundamental mechanisms and pathways relevant to brain and body function in health and disease. CDBS investigators exploit rapid advances in the enabling technologies available from genomics, proteomics, imaging, informatics, and in-vivo analysis to understand the function of gene products at the cell, organ and whole-animal level. They also exploit the most appropriate model organisms/systems to investigate the delicate balance between high biomedical relevance (for example human, mouse, rat) and high genetic power (such as *C. elegans*, *drosophila* and zebrafish). Research encompasses the study of the central and peripheral nervous systems, at multiple levels of analysis, from the molecular and cellular levels through to cognitive neuroscience, brain imaging, and behavioural neuroscience. Researchers have access to state-of-the-art equipment to facilitate their research objectives and extensive collaborations exist with the wider biomedical and clinical communities helping ensure you are supported in a world-class research environment. Supervisors maintain the highest standards of research training with a strong research output in leading international journals.

### English language requirements

See page 54.

### Fees and funding

For fees see page 54 and for funding information see page 56.

**Contact** Postgraduate Secretary

**Email** [sbms-postgraduate@ed.ac.uk](mailto:sbms-postgraduate@ed.ac.uk)

[www.ed.ac.uk/pg/218](http://www.ed.ac.uk/pg/218)

## Orthopaedic & Trauma Medicine

PhD 3 yrs FT (6 yrs PT available for UK/EU students)  
MSc by Research 1 yr FT (2 yrs PT available for UK/EU students)

### Research profile

We offer a comprehensive research programme covering a diverse range of musculoskeletal disorders. There are ongoing projects in musculoskeletal tissue engineering, stem cells and regenerative medicine; orthopaedic engineering and modelling of the musculoskeletal system; osteoporosis and fracture repair; and clinical outcome studies. The orthopaedic engineering unit and the musculoskeletal research unit, along with the microCT facilities, are located at our Little France campus. Facilities for collaborative projects are based in the Centre for Regenerative Medicine and the Centre for Integrative Physiology, also at Little France.

### English language requirements

See page 54.

### Fees and funding

For fees see page 54 and for funding information see page 56.

**Contact** Hamish Simpson  
**Email** hamish.simpson@ed.ac.uk

[www.ed.ac.uk/pg/506](http://www.ed.ac.uk/pg/506)

## Pathology

PhD 3 yrs FT (6 yrs PT available for UK/EU students)

### Research profile

Members of the Division of Pathology have major research interests in human cancer biology, cell and tissue injury, immunopathology, osteoarthritis and neuropathological disorders.

Academic staff are key members of most of the research centres within the College of Medicine and Veterinary Medicine, reflecting the collaborative and overarching role of pathology in translational medicine. There are also close links to research and development within adjacent hospitals across Edinburgh.

The Division includes the Edinburgh Breakthrough Breast Cancer Research Unit, Scottish Academic Health Sciences Tissue Governance Unit, MRC Sudden Death Brain Bank and CJD Brain bank. Within Edinburgh, there are strong links with clinical colleagues and scientists across the University.

The large diagnostic histopathology service that the division undertakes makes it a favourable environment in which to combine fundamental cell biological and applied clinical studies of human disease. There are excellent facilities for molecular and cell biology, immunology, image analysis and cell culture.

### English language requirements

See page 54.

### Fees and funding

For fees see page 54 and for funding information see page 56.

**Contact** Sarah Howie  
**Email** s.e.m.howie@ed.ac.uk

[www.ed.ac.uk/pg/399](http://www.ed.ac.uk/pg/399)

## Pathway Medicine

PhD 3 yrs FT (6 yrs PT available for UK/EU students)  
MSc by Research 1 yr FT (2 yrs PT available for UK/EU students)

### Research profile

The central goal of the Division of Pathway Medicine (DPM) is to integrate post-genomic science with medicine in order to provide a better understanding of disease processes. This will provide the basis for the development of new medical innovations for the diagnosis and treatment of human diseases. To do this the DPM promotes multidisciplinary interactions between science and medicine.

The DPM has two main research themes:

- pathway biology of infection and immunity involving the study of host-pathogen interaction in immune cells and the modelling of molecular pathways that control immune cell function in health and disease; and
- biochip medicine in systemic response to disease involving the development of advanced biochip techniques and platforms for translating genomic and pathway research into clinical healthcare.

### English language requirements

See page 54.

### Fees and funding

For fees see page 54 and for funding information see page 56.

**Contact** Douglas Roy  
**Email** douglas.roy@ed.ac.uk

[www.ed.ac.uk/pg/213](http://www.ed.ac.uk/pg/213)

## Population Health Sciences

PhD 3 yrs FT (6 yrs PT available for UK/EU students)  
MSc by Research 1 yr FT (2 yrs PT available for UK/EU students)

### Research profile

The Centre for Population Health Sciences supervises postgraduate research students in a wide range of population health disciplines, including epidemiology, genetic epidemiology, health promotion, health services research, medical statistics, molecular epidemiology and sociology and on a wide range of topics including allergic and respiratory disease, clinical trial and statistics methodology, e-health, ethnicity and health, genetic epidemiology of complex diseases, global health, palliative care and cancer, society and health and families and relationships. Prospective students are encouraged to align their research proposal with one of the main areas of research supported by the Centre and with the research interests of academic members of staff who may act as first supervisors. A principal aim is to foster interdisciplinary research involving quantitative and qualitative approaches via effective collaboration with biomedical scientists, epidemiologists, social scientists and clinical researchers throughout the University and beyond.

### English language requirements

See page 54.

### Fees and funding

For fees see page 54 and for funding information see page 56.

**Contact** Sebastien Georges  
**Email** s.georges@ed.ac.uk

[www.ed.ac.uk/pg/919](http://www.ed.ac.uk/pg/919)

## Precision Medicine

PhD 3-4 yrs FT

### Programme description

This is a new Medical Research Council (MRC) Doctoral Training Programme (DTP) and is a collaboration between the University of Edinburgh and the university of Glasgow.

Precision medicine is an emerging, transformational approach to disease treatment and prevention, focusing on identifying which strategy will be effective for which patients, based on genetic, environmental, and lifestyle factors. It integrates evidence from advanced data on myriad clinical samples with the individual genomics, e-record, imaging and other data-rich -omics parameters to enable discovery and tailored therapies.

There is a huge unmet need to train a generation of scientists who can excel in state-of-the-art interrogation of genetic and genomic information, developing and utilising analytical methodologies to provide evidence to improve health and wellbeing. We aim to train the next generation of research leaders, expert in informatics-based approaches and biomedical technologies, who are thus able to unravel disease mechanisms and devise new therapies.

You will learn to develop quantitative research creativity for use in careers in fast-moving disciplines, as biomedical science embraces new data-rich opportunities. Our collaborative DTP will provide state-of-the-art training in informatics, data analytics, genetics, genomics, epidemiology, clinical populations, clinical tissue and 'liquid biopsy' interrogation and molecular pathology. Hypotheses generated, including novel disease mechanisms and drivers, may be tested in the most appropriate disease models.

Applications for this doctoral training programme, including PhD projects in Edinburgh, should be made via the University of Glasgow website.

### English language requirements

See page 54.

### Fees and funding

For fees see page 54 and for funding information see page 56.

**Contact** Doctoral Training Programme Administrative Officer  
**Tel** +44 (0)131 651 7891  
**Email** precision.medicine@ed.ac.uk



www.ed.ac.uk/pg/507

## Psychiatry

PhD 3 yrs FT (6 yrs PT available for UK/EU students)  
MSc by Research 1 yr FT (2 yrs PT available for UK/EU students)

### Research profile

We focus on the mechanisms underlying the development of major psychiatric disorders, especially psychosis, with particular expertise in longitudinal, clinical and biological studies of large cohorts of people at high risk of psychosis, drawn from across Scotland.

In psychiatric genetics, we take part in international genome-wide association studies and focus on analyses of candidate genes including DISC-1, GRIK-4, ABCA13 and NPA3. We also have a major focus on the functional genetics of psychiatric illness and have investigated the effects of variation in genes such as NRG1 and DISC1 on brain structure and function, as well as their programming during development. We have demonstrated, for the first time, that structural and functional MRI changes precede the onset of psychosis and could be used as a diagnostic aid.

We have also demonstrated that it is possible to separate, using imaging, autism from learning disability in people of matched IQ. We have made substantial progress in the discovery of genes, including DISC-1, associated with psychosis and have played a leading role in understanding how genetic variation alters brain structure and function and risk for mental illness.

### English language requirements

See page 54.

### Fees and funding

For fees see page 54 and for funding information see page 56.

**Contact** Andrew McIntosh

**Email** [andrew.mcintosh@ed.ac.uk](mailto:andrew.mcintosh@ed.ac.uk)

www.ed.ac.uk/pg/695

## Regenerative Medicine

PhD 3 yrs FT (6 yrs PT available for UK/EU students)

### Research profile

The MRC Centre for Regenerative Medicine (CRM) is a world leading research centre based at the University. Together we study stem cells, disease and tissue repair to advance human health. Our research is aimed at developing new treatments for major diseases including cancer, heart disease, diabetes, degenerative diseases such as multiple sclerosis and Parkinson's disease, and liver failure.

Our work is currently organised into five themes. To promote collaboration within the Centre, we adopt a flexible approach to these themes with each principal investigator having one or more secondary affiliations. Two themes focus on fundamental research: pluripotency and IPS, and lineage and cell specification. The other three aim to translate fundamental research discoveries into clinical programmes relevant to brain, blood and liver diseases and to tissue repair.

Since 2011, the Centre has been housed in a new, specially designed building that provides high-quality research facilities, including:

- state-of-the-art centralised cell culture facility for isolation and culture of primary and established cell lines including embryonic and induced pluripotent stem cells;
- clinical-grade GMP cell culture facility;
- SPF animal facility;
- transgenic service covering derivation and provision of mouse embryonic stem cells, blastocyst injection, morula aggregation and production of defined genetic alterations;
- ultrasound micro-injection equipment;
- flow cytometry service consisting of cell sorters, MoFlo, FACS Jazz and FACS Aria II that are operated by facility staff and analysers, the LSR Fortessa and FACS Calibur that can be operated by users after completing mandatory training;
- histology;
- imaging facility including standard compound microscopy, confocal, STED super-resolution, high-content and timelapse imaging;
- quantitative real-time PCR; and
- Fluidigm Biomark and CellPrep for single cell transcriptomics.

### English language requirements

See page 54.

### Fees and funding

For fees see page 54 and for funding information see page 56.

**Contact** Kelly Douglas

**Email** [kelly.douglas@ed.ac.uk](mailto:kelly.douglas@ed.ac.uk)

Key FT: Full time. PT: Part time.

www.ed.ac.uk/pg/221

## Reproductive Health

PhD 3 yrs FT (6 yrs PT available for UK/EU students)

### Research profile

The MRC Centre for Reproductive Health (CRH) offers programmes that aim to introduce you to modern molecular and cellular biological research in the field of reproductive sciences, reproductive health and reproductive medicine. You will study in a stimulating, challenging and vibrant research atmosphere which is at the interface between basic science and clinical patient care.

Topics offered include using a wide range of models and in humans, studying a number of important problems associated with human reproductive health and disease – in testis, ovary, the uterus during the menstrual cycle and throughout pregnancy and labour, in the fetus and neonate, and in fetal programming resulting in increased risk of chronic disease in adulthood.

The MSc (see page 28) forms an ideal insight in to the PhD, with students undertaking some core teaching and two 20-week research projects, which are performed on a very wide range of research fields within the reproductive sciences.

The CRH is recognised internationally as a centre of excellence in research and teaching in reproductive sciences, health and medicine. The most recent Research Assessment Exercise rated reproductive biology as 5\*.

The CRH has arranged its research under four themes:

- Reproductive resilience, proliferation, differentiation, repair
- Reproductive system cancers: aetiology, pathogenesis and therapy
- Optimising lifelong health through pregnancy and perinatal interventions
- Immune-endocrine interactions in reproductive health.

These themes serve to illustrate some of the remarkable properties that make reproductive systems such relevant and powerful models for translational studies across a wide spectrum of human diseases and pathologies in other systems.

### English language requirements

See page 54.

### Fees and funding

For fees see page 54 and for funding information see page 56.

**Contact** Dean Ainscough

**Email** [dean.ainscough@ed.ac.uk](mailto:dean.ainscough@ed.ac.uk)



THE UNIVERSITY of EDINBURGH

### Case study: Edinburgh's research with impact

## Preventing deaths from pesticides in Asia

In the early 1990s, Sri Lanka had one of the world's highest suicide rates, at around 52 in 100,000 each year, up from around 8 in 100,000 in 1955. Much of this rise could be traced to the introduction of pesticides into poor rural homes during the late 1960s' Green Revolution, which made them accessible for self-poisoning. That rate has since fallen to 17 in 100,000 thanks largely to the Sri Lankan Registrar of Pesticides and the work of a group of Sri Lankan and international researchers established by Professor Michael Eddleston, Professor of Clinical Toxicology at the Queen's Medical Research Institute.

### Project background

Professor Eddleston and his colleagues' research focused on ways to prevent deaths from self-poisoning, through clinical and public health interventions. Their innovative methods and findings inspired improved medical management and revised policies on the composition of pesticides and their availability in small rural communities, as well as changes to poisoning treatments. His group reported on the reduction in suicides in Sri Lanka that followed the Registrar of Pesticides banning the most toxic insecticides used in agriculture, saving tens of thousands of lives.

### Project results

Professor Eddleston's work has been directly responsible for saving the lives of thousands of Sri Lankans every year. His findings influenced the World Health Organisation's (WHO) decision, for example, to exclude the antidote pralidoxime from its Essential Drugs List in 2009.

In addition, the WHO 2009 guidance on preventing deaths from pesticide poisoning was heavily based on research by Professor Eddleston – all six publications cited in its summary were from his group. These important findings have made an impact on pesticide poisoning guidelines internationally, with guidance on treatment of organophosphate-poisoned patients having now changed across Asia.

Based on 350,000 deaths from pesticide self poisoning across Asia every year, the team's findings on the use of the antidotes, and the bans of three toxic pesticides in Sri Lanka, are estimated to be saving 10,000 lives a year.

**Professor Eddleston's work has been directly responsible for saving the lives of thousands of Sri Lankans every year.**

See more online: [www.ed.ac.uk/research/impact](http://www.ed.ac.uk/research/impact)

“Edinburgh is a great place to live: there is plenty to do in the city, both in terms of social and cultural activities, as well as outdoors. The natural and built environments have a lot of appeal.”

**Kim Martin**, PhD Biomedical Sciences

www.ed.ac.uk/pg/223

## Respiratory Medicine

PhD 3 yrs FT (6 yrs PT available for UK/EU students)

### Research profile

The major areas of research interest are:

- cellular and molecular mechanisms of the resolution and persistence of lung inflammation and scarring;
- mechanisms of acute lung injury in the adult respiratory distress syndrome;
- gene therapeutic approaches to the augmentation of genes that protect against tissue injury in lung inflammation;
- biology of small-cell lung cancer;
- the effects of cigarette smoke, ozone and other pollutants on the lung;
- sleep apnoea; and
- applied lung physiology.

The unit also offers a number of research opportunities in areas of clinical interest, for example asthma, chronic bronchitis, emphysema and cystic fibrosis.

### English language requirements

See page 54.

### Fees and funding

For fees see page 54 and for funding information see page 56.

**Contact** Karen Colvin

**Email** karen.colvin@ed.ac.uk

www.ed.ac.uk/pg/884

## Science Communication

PhD 3 yrs FT (6 yrs PT available for UK/EU students)

### Programme description

We have more than 20 years' experience in science communication practice and have forged lasting partnerships with Edinburgh International Science Festival, National Museums Scotland, Edinburgh Zoo, National Galleries Scotland, Our Dynamic Earth and Edinburgh International Festival and Fringe.

Potential research areas include informal science learning, the role of social media, and cultural differences in science communication. You will be linked to two academic supervisors and will pursue your research under continuous guidance, resulting in a thesis that makes an original contribution to knowledge. You will be encouraged to present your research at conferences and in papers for academic journals during your PhD. You are also encouraged to attend the transferable skills courses provided by the University and participate in relevant external courses.

Students who have secured their own funding are welcome to apply.

The University has an extensive library collection of books and journals, many available electronically. Our partnerships with external organisations enable us to expand the range of facilities on offer.

### Entry requirements

A UK 2:1 honours degree or above, or its international equivalent ([www.ed.ac.uk/international/graduate-entry](http://www.ed.ac.uk/international/graduate-entry)), in a science related subject. For some non-UK applicants the entry requirement is a masters degree.

### English language requirements

See page 54.

### Fees and funding

For fees see page 54 and for funding information see page 56.

**Supervisor** Elizabeth Stevenson

**Tel** +44 (0)131 650 3258

**Email** e.stevenson@ed.ac.uk

www.ed.ac.uk/pg/835

## Surgery

PhD 3 yrs FT (6 yrs PT available for UK/EU students)  
MSc by Research 1 yr FT (2 yrs PT available for UK/EU students)

### Research profile

The department of surgery is headed by Professor O James Garden and has an international profile in surgical research. Strong research themes include liver injury and regeneration, innate immunity, the role of the macrophage in chronic kidney-graft rejection, foetal liver stem-cell research, cancer inflammation, medical imaging using microbubbles, modification of stress response pathways and aspects of clinical research in hepatobiliary surgery and transplantation.

### English language requirements

See page 54.

### Fees and funding

For fees see page 54 and for funding information see page 56.

**Contact** Damian Mole

**Email** damian.mole@ed.ac.uk

**Key** FT: Full time. PT: Part time.

www.ed.ac.uk/pg/849

## Tissue Repair

PhD 3 yrs FT (6 yrs PT available for UK/EU students)

### Research profile

This programme provides cutting edge, cross-disciplinary PhD training which builds on the breadth of world-class biomedical research performed within the College of Medicine & Veterinary Medicine.

We aim to train the next generation of scientific leaders in tissue repair. Successful advancement of tissue repair relies on combining expertise from basic to translational research in areas of regenerative medicine, stem cell biology, neurology, reproductive health, inflammation and cardiovascular science. Such a cross-disciplinary approach will underpin the design of novel cell- and drug-based therapies that stimulate repair of tissues damaged due to disease, trauma or congenital conditions.

This four-year training programme follows a six months - three years - six months format. During the first six months you will undertake two three-month research projects in affiliated research centres, receiving training in a range of practical core skills, attending seminars and contributing to discussion groups and lab meetings. Following the first six-month period you will choose the topic and the primary and secondary PhD supervisor for your three-year PhD research project. You will participate in discussion groups and lab meetings and attend seminars by internal and invited speakers at the affiliated research centres and further afield. This exposure to the wide range of research associated with tissue repair ensures a comprehensive training. Finally, in the last six-month period you will focus on writing your thesis and prepare for your final examination.

### English language requirements

See page 54.

### Fees and funding

For fees see page 54 and for funding information see page 56.

**Contact** Postgraduate Administrator

**Email** tissue.repair@ed.ac.uk

edin.ac/translational-neuroscience-phd

## Translational Neuroscience

PhD 4 yrs FT

### Programme description

This innovative research and training programme will focus on the advancement of knowledge, expertise and skills in clinical translation and will draw on Edinburgh's unique research strengths in diseases across the life-course. Created and delivered by Edinburgh Neuroscience, this programme will train non-clinical students to combine cutting-edge experimental technologies (such as cellular, regenerative, computational, genetic, or animal modelling technologies) and analytical tools, with comprehensive knowledge of the clinical brain research environment. By doing so, we intend to equip students with the distinct skills required to bridge the knowledge gap between the design, execution and interpretation of cellular experiments and the challenges of experimental medicine.

During the first year, you will undertake three research projects, each from a different stage of the life-course, from development through to adolescence/adulthood, and, finally, old age/degeneration. In parallel you will undertake a bespoke training programme that will draw on clinical and basic researchers to deliver a range of tutorials, seminars and clinic visits that will lead to an appreciation, and understanding, of life-course disorders and the methodologies used to investigate them. These sessions will provide an opportunity to integrate knowledge from across basic and clinical disciplines and provide a deeper understanding of research at the interface of the bench and the bedside.

Drawing on your experience during the rotation projects, you will select your PhD projects towards the end of Year 1 from a large range of projects that draw on both basic and clinical elements. You will be co-supervised throughout your PhD by a basic and clinical researcher. During Years 2 and 3 there will be continued coaching in life-course disorders/methodologies, building on the Year 1 activities. You will then submit your PhD thesis dissertation by the end of Year 4.

Edinburgh Neuroscience brings together neuroscience researchers from across the University, from fundamental, clinical, psychological and informatics arenas to provide an outstanding collegiate and dynamic environment in which to undertake cutting-edge research. We are perfectly placed to provide a unique training experience that encourages interaction across disciplines and the life-course.

### English language requirements

See page 54.

### Fees and funding

For fees see page 54 and for funding information see page 56.

**Contact** Jane Haley

**Tel** +44 (0)131 650 3522

**Email** wt4yrphd-tn@ed.ac.uk

## See also...

You may also be interested in research opportunities offered by other Schools within the University, particularly the School of Biological Sciences, the School of Health in Social Science and the Royal (Dick) School of Veterinary Studies.

[www.ed.ac.uk/studying/prospectus-request](http://www.ed.ac.uk/studying/prospectus-request)

# About Edinburgh Medical School

Established in 1726, Edinburgh Medical School was the pre-eminent medical centre of the 18th and 19th centuries. Today it retains its status as a leading force internationally in basic-to-clinical translational research and teaching.

## Dynamic experience

We offer you the opportunity to study in an environment where research is an important component of every student's life, nurturing a way of thinking that will equip you to deliver positive change for humanity. By bringing together clinicians and basic scientists, we create opportunities to develop cutting-edge work that makes a real difference to people's lives.

Here at Edinburgh you will find a broad range of world leading research centres, including Medical Research Council-funded centres, working side by side. We offer state-of-the-art facilities; co-location and close collaboration with NHS Lothian hospitals; all major imaging technologies; clinical trials support; and commercialisation training and opportunities. Our ground-breaking collaboration with Edinburgh BioQuarter, a landmark life science development on the Little France campus, is establishing Edinburgh and Scotland as one of the world's major centres for biomedical commercialisation.

## Breadth and diversity

We offer enormous breadth and depth of research and learning opportunities. Our research themes include:

- cancer;
- cardiovascular science;
- application of basic animal sciences in human and veterinary medicine;
- genetics and molecular medicine;
- global health;
- infectious diseases;
- inflammation;
- neuroscience;
- regenerative medicine; and
- reproductive health.

## Research excellence

Edinburgh Medical School is part of the College of Medicine & Veterinary Medicine. The College's reputation as one of the world's leading centres of medical and veterinary medical research was reaffirmed

by the Research Excellence Framework (REF) 2014 results. The College's three submissions to REF were some of the largest REF submissions in the UK. This emphasises the enormous power of the University's research in human and animal medicine and health. Overall, 84 per cent of our research activity was rated 4\*, world leading, or 3\*, internationally excellent.

Medicine, the University's largest REF submission, was ranked in the UK top five. Neuroscience was ranked third in the UK, out of a total of 82 submissions, representing a major advance.

## Pioneers and trailblazers

Pioneering staff and students of our College have included the following distinguished individuals:

- Joseph Lister, discoverer of life-saving antiseptic;
- Charles Darwin, world-renowned naturalist and author of *On the Origin of Species*;
- Sir James Young Simpson, pioneer of chloroform use;
- James Syme, pioneering surgeon;
- Margaret Barry, the first woman to graduate from a British medical school;
- William Gregory, who devised a procedure for crystallising morphine, opening up its use for pain relief;
- Julius Jeffreys, inventor of the respirator;
- Alexander Woods, who introduced the hypodermic syringe;
- James Horton, who was one of the first Africans to study medicine in Europe;
- Sir George Beatson, the father of oophorectomy;
- Sir John Crofton, who led the team that developed a cure for tuberculosis, the biggest killer of adults in the western world at the time;
- Sir Paul Nurse, who discovered several key regulators of the cell cycle, a breakthrough for which he was awarded the Nobel Prize;
- Sir Robert Edwards, awarded the Nobel Prize in recognition of his role in pioneering in vitro fertilisation or IVF;

- Sir Kenneth Murray, one of the pioneers of DNA sequencing methods and inventor of the first genetically engineered vaccine for hepatitis B;
- Matthew Kaufman, one of the first scientists to culture the embryonic stem cells of mice and cultivate them in a laboratory, paving the way for stem cell research;
- Ian Frazer, who discovered that human papilloma virus (HPV) could develop into cervical and other types of cancer.

## Deaneries

Edinburgh Medical School consists of three Deaneries:

- Edinburgh Medical School: Biomedical Sciences
- Edinburgh Medical School: Clinical Sciences
- Edinburgh Medical School: Molecular, Genetic & Population Health Sciences.

## Global influence

Medical research at the University has an impact in more than 100 countries, including many developing countries, and benefits millions of individuals in areas such as sleeping sickness, childhood pneumonia prevention, reduction in blood transfusions, more effective cardiovascular and liver surgery, ovarian cryopreservation and stroke prevention and management. Our 'one medicine, one health' strategy is built upon the integration of research from bench to bedside and from process to population. We are constantly developing global networks and innovative research opportunities with partner institutions. Our suite of practical and clinically appropriate online learning qualifications enables students to train in their own countries to deliver the services so desperately needed by their communities. Edinburgh Medical School has more than 1,500 online learning students from 100 countries around the globe.

## Our ethos

Interdisciplinary research and high-quality teaching are at the heart of our ethos. Clinical and basic scientists work closely together linking basic and translational research goals. This allows us to offer you an outstanding educational experience with a wide range of interdisciplinary opportunities and learning outcomes.

Our association with the Royal (Dick) School of Veterinary Studies provides further opportunities for collaboration and interaction. We aim to provide you with all the support and training you require to enhance your careers and allow you to reach your full potential.



## Graduate School

Our Graduate School provides an interdisciplinary, college-wide support network for all postgraduate students and staff. It is home to more than 3,100 postgraduate students studying within Edinburgh Medical School or the Royal (Dick) School of Veterinary Studies.

The Graduate School supports and fosters the best possible learning and research environment, working in partnership across our two Schools with the University's central services to ensure our postgraduate student experience is world-class. It promotes the sharing of good practice across all teaching and research platforms, and aims to ensure that whether you study on campus or online, your academic and pastoral needs are appropriately provided for.

The Graduate School hosts a number of events including the open day and online chat sessions for prospective students, welcome events, and our round of the international Three Minute Thesis competition.

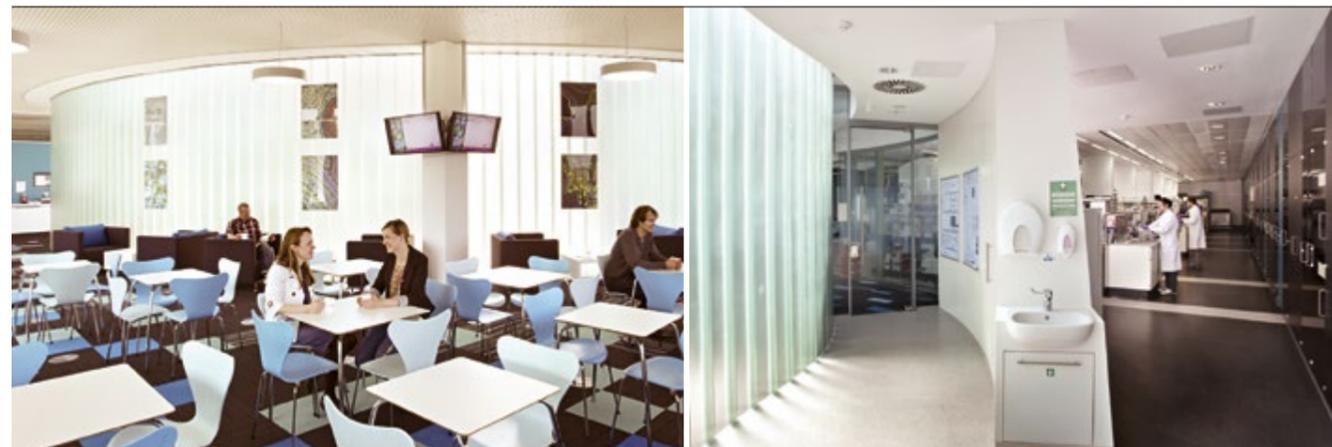
### Graduate School Hubs

Whether you're studying online or in Edinburgh, your programme will belong to one of our Graduate School Hubs. Your Hub will provide you with an accessible point of personal contact – in person, online or by phone – from application to graduation. Postgraduate students are supported by a team of administrators within their Graduate School Hub. These teams are the first point of contact for our postgraduate

students and staff, and support both on-campus and online learning students. As well as supporting all aspects of programme administration, these staff are front-line student support officers for any queries or issues you may have, with the knowledge and experience to direct you to the appropriate resource for additional support.

Hubs are arranged thematically to bring together students working in similar fields. However all students in all Hubs work together as part of the wider Graduate School. Our Hubs are in:

- Biomedical Sciences
- Clinical & Translational Sciences
- Dental Institute
- Edinburgh Neuroscience
- Institute of Genetics and Molecular Medicine
- Usher Institute.



## Community

We aim to foster a close community of postgraduate staff and students.

If you study on-campus as a masters student, you will work closely with your classmates through tutorials, lectures and seminars, becoming part of a close-knit group over the duration of your programme.

However, distance isn't a barrier if you choose to study online. Our online-learning postgraduates are a diverse group of students from all over the world, united by their academic interests. Using our award-winning interactive learning environments, our online students and tutors maintain a supportive virtual community that ensures successful online study. If you can't attend your graduation ceremony in person you can even have a virtual graduation at the same time.

If you are a research student, you will join an individual research centre within the College. Within each centre there are both social and academic opportunities to integrate with the wider postgraduate community, such as through seminar series, team building and development exercises at College and University level or through the University's Postgraduate Society. Research students are encouraged to get to know each other and interact through a series of induction activities within their Deanery and through campus-based postgraduate societies.

There is a wide range of seminar series and team building and development exercises are available through the Institute for

Academic Development. You are encouraged to interact with the wider University postgraduate community through cross-School networks such as Edinburgh Neuroscience, Edinburgh Infectious Diseases, and the Edinburgh Immunology Group and by participating in the University-wide Three Minute Thesis competition. You are also encouraged to take part in public engagement events to actively communicate your science outside the University.

Networking spaces are vital in the fostering of a strong community and we are fortunate to have excellent communal spaces for this purpose on all of our campuses.

Joining professional societies can also be beneficial to postgraduate training and affords you membership of a wider academic community. In many cases, societies offer travel grants for students, and membership usually entitles reduced or waived registration fees to society meetings.

You will also have access to all the support services available across the University, including the Careers Service, Edinburgh Global, the Edinburgh University Students' Association, the independent Advice Place and the Student Counselling Service.

More information:  
[www.ed.ac.uk/students/student-services](http://www.ed.ac.uk/students/student-services)



## Research and teaching environment

Each year we support the training of more than 600 research students and 1,500 students undertaking taught programmes on campus or online.

The excellence of our Centres is evidenced by prestigious external funding awards including four Medical Research Council (MRC) Centres, two British Heart Foundation (BHF) Centres, a Cancer Research UK (CRUK) Centre, an Asthma UK Centre (the Asthma UK Centre for Applied Research), an MRC University Unit (Human Genetics Unit) and a World Health Organisation (WHO) Collaborating Centre on Population Health Research and Training.

Research within the School is organised into four institutes, where clinical and basic scientists interact closely around their basic-to translational goals:

### Queen's Medical Research Institute

A world-class clinical research facility, the Queen's Medical Research Institute (QMRI) has four strategic centres, addressing major disease challenges. Research is broadly focused on normal and diseased cells and inflammation and tissue repair. In QMRI the research emphasis is towards clinical-translational science, with two-way iteration from bench-to bedside. Centres within Institutes 'hub' inter-disciplinary research and training, and investigators collaborate widely, fostering the beneficial sharing of knowledge, ideas, skills, scientific cultures and infrastructure. QMRI hosts four research centres:

- Centre for Cardiovascular Science
- MRC Centre for Inflammation Research
- MRC Centre for Regenerative Medicine
- MRC Centre for Reproductive Health.

### Institute of Genetics and Molecular Medicine (IGMM)

One of the largest centres worldwide for human genetics and human medicine, the Medical Research Council Institute of Genetics & Molecular Medicine at the University of Edinburgh has more than 500 research and support scientists. By pooling the resources and complementary skills of partner centres and units, the IGMM brings together distinct expertise that maximises scientific discovery and translation of science. The IGMM broadly focuses on genes and populations, and normal and diseased cells to study development and disease mechanisms. The partner centres and units are grouped strategically to exploit common strengths in genetic and genomic analysis, and protein, cell and tissue regulation in disease, with emerging emphasis on innovative basic and

translational science, from molecules to man and from populations to process. The IGMM hosts two research centres and one research unit:

- Centre for Genomic and Experimental Medicine
- Edinburgh Cancer Research Centre
- MRC Human Genetics Unit.

### Edinburgh Neuroscience

Integrating basic and clinical research, Edinburgh Neuroscience advances understanding, diagnostics and therapeutics of diseases of the nervous system. It is a vibrant, integrated, and interdisciplinary research structure launched to facilitate interaction between researchers across groups, centres, schools and colleges, working at all levels of neuroscience from molecules through synapses and networks to cognition and behaviour.

Our major strategic goal has been to bring together psychology, psychiatry and neuroscience to target our basic and translational research on two of the key challenges for 21st century neuroscience: how does the human brain develop and function across the lifespan, and how can it be protected and repaired? Edinburgh Neuroscience hosts seven research centres:

- Centre for Cognitive and Neural Systems
- Centre for Clinical Brain Sciences
- Centre for Neuroregeneration
- Centre for Integrative Physiology
- The Euan MacDonald Centre for Motor Neurone Disease
- The Muir Maxwell Epilepsy Centre
- The Patrick Wild Centre.

### The Usher Institute of Population Health Sciences and Informatics

Conducting transformative research that impacts upon healthcare, the Usher Institute of Population Health Sciences and Informatics improves the health and wellbeing of patients, communities and populations locally and globally. The Institute brings together a critical mass of researchers with expertise in epidemiology, statistics and modelling, informatics, computer science, clinical science, sociology, social policy, governance, ethics, politics, medical law psychology, economics, geography, health promotion and medicine to create a truly interdisciplinary research institute. The Usher Institute includes space within Building 9 at Edinburgh BioQuarter, Little France and at Teviot Place, in the Central Area.

The Institute hosts three research centres and one unit:

- Centre for Population Health Sciences
- Centre for Medical Informatics
- Centre for Global Health Research
- Edinburgh Clinical Trials Unit.

### Networking opportunities

Our cross-campus networks bring researchers together:

#### Edinburgh Data Science

The Edinburgh Data Science (EDS) initiative builds on existing data science efforts within the University of Edinburgh, bringing the community together with an emphasis on communication, sharing of best practice, and future development.

#### Edinburgh Drug Discovery

Edinburgh Drug Discovery works closely with large pharmaceutical companies, biotechnology firms and other academic laboratories to bring new hope to patients in a wide range of disease areas.

#### Edinburgh Genomics

Edinburgh Genomics offers sequencing, genotyping-arrays, bioinformatics and clinical genomics.

#### Edinburgh Imaging

Edinburgh Imaging is a virtual hub of expertise on medical imaging, pre-clinical imaging, neuroimaging for research, microscopy and imaging science education.

#### Edinburgh Infectious Disease

Edinburgh Infectious Disease brings together more than 150 principal investigators and more than 760 active researchers across the spectrum of infectious disease science and clinical medicine at Edinburgh.

#### Edinburgh Neuroscience

Edinburgh Neuroscience integrates basic and clinical research in order to drive the fundamental genetic, cellular, organ, systems and computational neuroscience underpinning pathogenesis into mechanistic understanding, future diagnostics and therapeutics of important diseases of the nervous system.

## Facilities

We cater for our wide range of disciplines with extensive facilities and critical investment in order to create the perfect environment for discovery.

Our facilities include:

- Edinburgh Medical School, next to the Royal Infirmary of Edinburgh at Little France;
- the Queen's Medical Research Institute, which houses three world-class medical research centres and more than 800 researchers;
- the Institute of Genetics & Molecular Medicine, home to around 500 world leading medical researchers;
- Edinburgh Neuroscience, one of the largest neuroscience groupings in the world;
- Clinical Research Imaging Centre;
- the Wellcome Trust Clinical Research Facility with trials and clinical research governance support units;
- recently refurbished, pre-clinical research centres on the central campus;
- the latest imaging technologies;
- the Scottish Centre for Regenerative Medicine, based at our Little France campus;
- Edinburgh BioQuarter, a major medical research commercialisation initiative, also at our Little France campus;
- the Usher Institute of Population Health Sciences and Informatics, our newest institute, based at our Little France campus and the Central Area campus.

### Collections of the University

The University of Edinburgh has one of the world's great collections, which has been growing ever since its foundation in 1583. Our collections include rare books, archives and manuscripts, art, historical musical instruments and a wide range of museum objects from geological specimens to anatomical models. If laid out end to end, we would have almost 60 kilometres of shelving and storage space devoted to our heritage material, from 1st-century Greek papyrus fragments to new works of sculpture. This is curated by specialist staff across 45 sites and used for our teaching and research and by the wider public community.

The Centre for Research Collections in the Main Library is the hub for all our collections, where specialist curators make them available for study, research and pleasure. Postgraduate students are welcome to study original objects and have made many important research discoveries while working on the archives. You will find an incredible range of material in our collections that is available nowhere else in the world.



# Employability and graduate attributes

The University is here to support you in the successful completion of your postgraduate training and to prepare you for your career. We provide information and advice on how to plan your career and develop the skills you will need now and in the future.

Throughout your postgraduate studies we support you with advice and training on effective study, exams and assignments, numeracy and data analysis, specific postgraduate writing skills, and finding and using academic sources. We offer learning opportunities to develop your information and IT skills, for personal development and to help you work, study and research more effectively.

We run a series of workshops for taught masters students, specifically: Masters Study Skills: Critical Reading, Essay Planning and Writing. Our research students can develop their planning skills, professional development, communication and IT skills through a wide range of courses developed specifically with the medical and veterinary medicine sectors in mind.

## Institute for Academic Development

All postgraduate students can benefit from our Institute for Academic Development (IAD), which provides information, events and courses to develop the skills you will need throughout your studies and in the future. IAD events also offer the perfect opportunity to meet and network with other postgraduates from across the University.

Further information is available online: [www.ed.ac.uk/iad/postgraduates](http://www.ed.ac.uk/iad/postgraduates)

For taught postgraduates, IAD provides a popular study-related and transferable skills support programme. It is designed to help you settle into postgraduate life, succeed during your studies and move confidently to the next stage of your career. We offer on-campus and online workshops and one-to-one study skills consultations, plus online advice and learning materials. Workshops and learning resources cover key topics tailored to different academic stages, including getting started with your studies; critical reading, writing and thinking; managing your exams; and planning for and writing up your dissertation.

IAD also provides a comprehensive programme of transferable skills training, resources and support for researchers completing a doctorate. The workshop programme is designed to help you successfully prepare for the various milestones of your PhD, from getting started with your research, to writing up and preparing for the viva. Workshops cover topics such as writing skills, reference management tools, statistics, preparing for conferences, delivering presentations, time and project management, and personal development. IAD also offers online resources and planning tools to help get your research started, plus support for tutoring and demonstrating, and research public engagement and communication.

## Careers Service

Our Careers Service plays an essential part in your wider student experience at the University, offering a range of tailored careers and personal development guidance and support. We support you to recognise the wealth of possibilities ahead, while at university and after graduation, helping you explore new avenues, tap into your talents and build your employability with confidence and enthusiasm.

We provide specialist support for postgraduate students. From exploring career options to making decisions, from CV writing to interview practice, from Employ.ed internships to graduate posts and from careers fairs to postgraduate alumni events, we help you prepare for the future.

We sustain and continually develop links with employers from all industries and employment sectors, from the world's top recruiters to small enterprises based here in Edinburgh. Our employer team provides a programme of opportunities for you to meet employers on campus and virtually, and advertises a wide range of part-time and graduate jobs.

More information: [www.ed.ac.uk/careers/postgrad](http://www.ed.ac.uk/careers/postgrad)

## Connect.ed

Edinburgh encourages its alumni to stay in touch with current students who share an academic background or are interested in a similar career path. Connect.ed is a networking system run by the Careers Service that provides an informal and confidential opportunity for alumni to share their occupational knowledge and experience with current students, who can contact them for advice and guidance on their future career.

More information: [www.ed.ac.uk/careers/connected](http://www.ed.ac.uk/careers/connected)

## Backing bright ideas

LAUNCH.ed is the University's award-winning programme for student entrepreneurs. Each year, LAUNCH.ed works with hundreds of students to assess their ideas and develop their business skills and helps many start their businesses. We have helped Edinburgh students and alumni launch almost 100 new businesses in the last three years, ranging from language tuition to robotics companies.

More information: [www.LAUNCH.ed.ac.uk](http://www.LAUNCH.ed.ac.uk)



## Eurolife postgraduate student exchange visits

The College of Medicine & Veterinary Medicine is a member of the Eurolife consortium, which comprises eight European, research-led, life sciences universities. Established in 1999, Eurolife promotes transnational interactions via research collaboration, postgraduate programmes and student mobility programmes. Eurolife offers you the opportunity to undertake learning and/or research in another leading European university, while gaining new contacts, skills and experience.

The eight Eurolife universities are:

- The University of Edinburgh, College of Medicine & Veterinary Medicine
- Karolinska Institute, Sweden

- School of Medicine, Trinity College, Dublin, Ireland
- Leiden University Medical Center, Netherlands\*
- University Medical Center, Göttingen, Germany\*
- University of Barcelona, Spain\*
- Medical University of Innsbruck, Austria\*
- University of Strasbourg, France\*

\* This institution does not offer its tuition in the English language.

Typically, Eurolife student exchange visits are for up to six months, to undertake masters-level course modules and/or a research project. Normally each institution will accept exchange

visits by up to two students from each partner institution per academic year. Eurolife student exchange visits do not incur tuition fees. Students intending to undertake an exchange visit should contact the College Research Officer by email, [mvmresearch@ed.ac.uk](mailto:mvmresearch@ed.ac.uk), at least seven months in advance of a proposed visit start date, to discuss submitting an application.

More information: [www.ed.ac.uk/medicine-vet-medicine/eurolife](http://www.ed.ac.uk/medicine-vet-medicine/eurolife)

## Global Health Academy

The University's Global Health Academy draws on a wide range of expertise, crossing all boundaries in global health. Because global health is not one single discipline, but multiple disciplines cutting across traditional institutional functions and boundaries, the University has brought together world-class research drawn from numerous academic areas in order to deliver a greater impact. For example, public health and clinical physicians work closely with our leading anthropologists, biomedical scientists,

epidemiologists, geographers, health economists, management specialists, mathematicians, political scientists and sociologists. The umbrella of the Global Health Academy also extends outwards to specialists across the globe who wish to lend their expertise to our training, teaching or research for shorter or longer periods.

More information: [www.ed.ac.uk/global-health](http://www.ed.ac.uk/global-health)

# Applications and fees

We have an online application process for all postgraduate programmes. It's a straightforward system with full instructions, including details of supporting documentation you need to submit.

When applying, you will set up an account, which lets you save your application if you wish to continue and submit your application at another time. Full guidance on our application system is available at: [www.ed.ac.uk/postgraduate/applying](http://www.ed.ac.uk/postgraduate/applying)

## General requirements

Usually a UK 2:1 honours undergraduate degree, or its international equivalent ([www.ed.ac.uk/international/graduate-entry](http://www.ed.ac.uk/international/graduate-entry)), in a subject related to your chosen programme. You will also need to meet the University's language requirements (see below). Entry requirements for individual programmes can vary, so check the details for the specific programme you wish to apply for.

## References

For applications to taught programmes, the normal requirement is one reference, although an additional reference may be requested in individual cases. For applications to research programmes, two references are required. You should check the entry online for exact requirements for your intended programme of study. For general guidance on references, visit: [www.ed.ac.uk/postgraduate/references](http://www.ed.ac.uk/postgraduate/references)

## Deadlines

### Online and on-campus taught programmes

The deadline for online learning programmes is usually late August but varies from programme to programme. The deadline for on-campus taught masters is 1 August. Programmes with especially high competition for places may have earlier closing dates. Please check online for details.

## Research programmes

For many research programmes, you can start at any time of year – check with the particular programme for further information on start dates. College studentships are usually advertised in November, with a January or February deadline, for programmes that will start the following September.

## English language requirements

Students whose first language is not English must show evidence of one of the qualifications listed below.

### Biomedical Sciences (Life Sciences), Public Health (including online Learning), Science Communication & Public Engagement (including online Learning), Transfusion, Transplantation & Tissue Banking, and all programmes offered by the Postgraduate Dental Institute

- IELTS Academic: total 7.0 (at least 6.5 in each module).
- TOEFL-iBT: total 100 (at least 23 in each module).
- PTE(A): total 67 (at least 61 in each of the Communicative Skills sections; the Enabling Skills sections are not considered).
- CAE and CPE: total 185 (at least 176 in each module).
- Trinity ISE: ISE III (with a pass in all four components).

### Global Health Challenges (online learning)

- IELTS: total 7.0 (at least 6.0 in each module).
- TOEFL-iBT: total 100 (at least 20 in each module).
- PTE(A): total 67 (at least 56 in each of the Communicative Skills sections; the Enabling Skills sections are not considered).
- CAE and CPE: total 185 (at least 169 in each module).
- Trinity ISE: ISE III (with a pass in all four components).

## All other programmes

- IELTS Academic: total 6.5 (at least 6.0 in each module).
- TOEFL-iBT: total 92 (at least 20 in each module).
- PTE(A): total 61 (at least 56 in each of the Communicative Skills sections; the Enabling Skills sections are not considered).
- CAE and CPE: total 176 (at least 169 in each module).
- Trinity ISE: ISE II (with distinctions in all four components).

Please note:

- English language requirements can be affected by government policy so please ensure you visit our degree finder to check the latest requirements for your programme: [www.ed.ac.uk/postgraduate/degrees](http://www.ed.ac.uk/postgraduate/degrees)
- Your English language certificate must be no more than two years old at the beginning of your programme.
- We also accept recent degree-level study that was taught and assessed in English in a majority English-speaking country (as defined by UK Visas & Immigration).

Abbreviations: IELTS – International English Language Testing System; TOEFL-iBT – Test of English as a Foreign Language Internet-Based Test; PTE(A) – Pearson Test of English (Academic); CPE – Certificate in Proficiency in English; CAE – Certificate in Advanced English; Trinity ISE – Integrated Skills in English.

[www.ed.ac.uk/english-requirements/pg](http://www.ed.ac.uk/english-requirements/pg)

## Tuition fees

The following table provides an overview of indicative fee levels for programmes commencing in 2018.

Figures marked \* show the fee level set for the 2017/18 academic year. All other figures are indicative of expected fee levels for your studies during the 2018/19 academic year. Because these figures are indicative, it is important you check online before you apply and check the up-to-date fee level that will apply to your specific programme: [www.ed.ac.uk/student-funding/tuition-fees/postgraduate](http://www.ed.ac.uk/student-funding/tuition-fees/postgraduate)

Please note:

- International students starting full-time taught programmes of study lasting more than one year will be charged a fixed annual fee.
- All other students on full-time and part-time programmes of study lasting more than one year should be aware that annual tuition fees are subject to revision and are typically increased by approximately five per cent per annum. This annual increase should be taken into account when you are applying for a programme.
- In addition to tuition fees, your programme may be subject to an application fee and additional costs/programme costs may apply. Please check the latest programme information online.

## Tuition fees for EU students

EU students enrolling in the 2018/19 academic year will be admitted as Scottish/EU fee status students. Taught masters students will be eligible for the same tuition support as Scottish domiciled students from the Student Awards Agency for Scotland (SAAS).

## For UK/EU students

	Annual fee
All taught programmes	£10,100-£11,500
<b>Except:</b>	
Transfusion, Transplantation & Tissue Banking PT	£2,635
Regenerative Medicine: Clinical & Industrial Delivery FT	£11,500
MClinDent/DClinDent	£19,500
All MPhil 2-years FT / PhD 3-years FT	£4,195*
All MPhil 4-years PT / PhD 6-years PT	£2,098*
All MSc by Research/MMedSci by Research 1-year FT	£7,900
All MSc by Research/MMedSci by Research 2-years PT	£3,950
DDS/MD Med 2-years FT	£4,195*
DDS/MD Med 3-years PT	£2,797*
DDS/MD Med 4-years PT	£2,098*

## Online Learning

	Annual fee
60 credits	£3,835-£4,900
Intermittent study is charged pro rata on a course-by-course basis.	

## For international students

	Annual fee
All taught programmes	£20,500-£25,100
<b>Except:</b>	
Transfusion, Transplantation & Tissue Banking PT	£6,835
Regenerative Medicine: Clinical & Industrial Delivery FT	£25,100
MClinDent/DClinDent	£43,800
All MPhil 2-years FT / PhD 3-years FT	£21,000
<b>Except:</b>	
Science Communication PhD	£18,000
Dentistry, Molecular & Clinical Medicine (Clinical), Orthopaedic & Trauma Medicine, Surgery	£34,300
All MSc by Research/MMedSci by Research 1-year FT	£25,100
MD Med	£21,000
DDS	£34,300

\* Figure shown is the 2017/18 fee level

All other fees quoted are indicative of 2018/19 fee levels. Because these figures are indicative, it is important you check online before you apply and check the up-to-date fee level that will apply to your specific programme: [www.ed.ac.uk/student-funding/tuition-fees/postgraduate](http://www.ed.ac.uk/student-funding/tuition-fees/postgraduate)

# Funding

A large number of scholarships, loans and other funding schemes are available for your postgraduate studies. It is only possible to show a small selection in print. To see the full range, please visit: [www.ed.ac.uk/student-funding/postgraduate](http://www.ed.ac.uk/student-funding/postgraduate)

Awards are offered by the College of Medicine & Veterinary Medicine, the University of Edinburgh, the Scottish, UK and international governments and many funding bodies.

Within the School, 79 per cent of research students received funding for their tuition fees in 2016/17. However, the majority of taught students are self-funded although there are some funding packages available for both on-campus and online learning students.

Here we list a selection of potential sources of financial support for postgraduate students applying to the College of Medicine & Veterinary Medicine. This list was correct at the time of printing but please check the full and up to date range online (see above).

## Tuition fee discounts

We offer a 10 per cent discount on postgraduate fees for all alumni who have graduated with an undergraduate degree from the University. We also offer a 10 per cent discount for international graduates who spent at least one semester at the University of Edinburgh as a visiting undergraduate: [www.ed.ac.uk/student-funding/discounts](http://www.ed.ac.uk/student-funding/discounts)

### Key

- Taught masters programmes
- Masters by Research programmes
- Research programmes

“I chose Edinburgh because of its complete package. The University allows me to pursue my passion with cutting-edge equipment and facilities, with some of the brightest minds in their field, all within this amazing and beautiful city.”

**Jason Weiss**, PhD Molecular and Clinical Medicine, Edinburgh Global Research Scholarship

## Scholarships at the University of Edinburgh

- **Beit Trust** ●●  
Beit Trust and the University of Edinburgh Scholarships jointly fund postgraduate students from Malawi, Zambia and Zimbabwe to undertake a masters: [www.beittrust.org.uk](http://www.beittrust.org.uk)
- **College of Medicine & Veterinary Medicine Funded PhDs** ●  
The College offers a number of funded PhD programmes every year, including:
  - Wellcome Trust 4-year PhD in Translational Neuroscience
  - Wellcome Trust 4-year PhD in Tissue Repair
  - MRC Centre for Reproductive Health PhD Scholarship
  - Medical Research Council (MRC) DTP in Precision Medicine
  - The EPSRC and MRC Centre for Doctoral Training in Optical Medical Imaging (OPTIMA)
  - BBSRC EASTBIO Doctoral Training Partnership (DTP)
 For further information on funded PhDs see: <http://edin.ac/mvm-funded-phds>
- **Edinburgh Global Masters Scholarships** ●●  
A number of scholarships are available to international students for masters study: [www.ed.ac.uk/student-funding/masters](http://www.ed.ac.uk/student-funding/masters)
- **Edinburgh Global Research Scholarships** ●  
These scholarships are designed to attract high-quality international research students to the University: [www.ed.ac.uk/student-funding/global-research](http://www.ed.ac.uk/student-funding/global-research)
- **Edinburgh Principal's Career Development Scholarships** ●  
A number of scholarships, open to UK, EU and international PhD students: [www.ed.ac.uk/student-funding/development](http://www.ed.ac.uk/student-funding/development)

- **Enlightenment Scholarships** ●  
The University is currently developing a new style of PhD scholarship to attract the best PhD applicants from around the world. These scholarships will provide funding for up to four years. For the latest information, and for details on which Schools will be participating, please check: [www.ed.ac.uk/student-funding/enlightenment](http://www.ed.ac.uk/student-funding/enlightenment)
- **Edinburgh Syrian Postgraduate Scholarships** ●●  
A number of scholarships are available to postgraduate students from Syria studying a full-time one-year masters: [www.ed.ac.uk/student-funding/postgraduate/syria](http://www.ed.ac.uk/student-funding/postgraduate/syria)
- **International Masters Scholarships for MSc in Science Communication and Public Engagement** ●  
We offer five masters scholarships to international (non-EU) students who are currently resident in one of the countries on the Development Assistant Committee (DAC) list of Official Development Assistance (ODA) recipients: [www.ed.ac.uk/student-funding/science-communication](http://www.ed.ac.uk/student-funding/science-communication)
- **Julius Nyerere Masters Scholarship (Tanzania)** ●●  
One scholarship is available to citizens of Tanzania who are normally resident in Tanzania who are accepted on a full-time masters programme: [www.ed.ac.uk/student-funding/nyerere](http://www.ed.ac.uk/student-funding/nyerere)
- **Polish School of Medicine Memorial Fund** ●●●  
This scholarship enables medical scientists, normally medical doctors at the outset of their careers and working in Polish medical universities, to undertake a period of further study or research at the University and return to their home institution in Poland: [www.ed.ac.uk/student-funding/polish-medicine](http://www.ed.ac.uk/student-funding/polish-medicine)
- **Wellcome Trust PhD Awards** ●  
The Wellcome Trust offers studentships to support applicants studying Translational Neuroscience or Tissue Repair. These studentships cover UK/EU tuition fees and a stipend: [www.edneurophd.ed.ac.uk](http://www.edneurophd.ed.ac.uk) [www.tissuerepairphd.ed.ac.uk](http://www.tissuerepairphd.ed.ac.uk)

## Research council awards

Research councils offer awards to PhD students in most of the Schools within the University of Edinburgh. All studentship applications from the research councils must be made through the University, through your School or College office. Awards can be made for both taught and research programmes.

Normally only those UK/EU students who have been resident in the UK for the preceding three years are eligible for a full award. For some awards, candidates who are EU nationals and are resident in the UK may be eligible for a fees-only award. The UK Government has confirmed that EU postgraduate research students commencing their studies in 2018/19 will retain their fee status and eligibility for research council support for the duration of their programme: [www.ed.ac.uk/student-funding/research-councils](http://www.ed.ac.uk/student-funding/research-councils)

The University also offers a number of scholarships in partnership with the following overseas government agencies:

- **Chile** ●●●  
National Commission for Scientific and Technological Research (CONICYT): [www.conicyt.cl](http://www.conicyt.cl)
- **Colombia** ●  
Administrative Department of Science, Technology and Innovation (Colciencias): [www.colciencias.gov.co](http://www.colciencias.gov.co)
- **Ecuador** ●●●  
Secretaria Nacional de Educacion Superior, Ciencia y Tecnologia (SENESCYT): [www.educacionsuperior.gob.ec](http://www.educacionsuperior.gob.ec)
- **Iraq** ●  
Ministry of Higher Education and Scientific Research: [www.iraqiculturalattache.org.uk](http://www.iraqiculturalattache.org.uk)
- **Mexico**  
National Council of Science and Technology of the United Mexican States (CONACYT): ●●●  
[www.conacyt.mx](http://www.conacyt.mx)  
Banco de Mexico and the Banco de Mexico's FIDERH trust (FIDERH): ●●●  
[www.fiderh.org.mx](http://www.fiderh.org.mx)  
Fundacion Mexicana para la Educacion, la Tecnologia y la Ciencia (FUNED): ●●  
[www.funedmex.org](http://www.funedmex.org)

## Loans available for study at the University of Edinburgh

The University of Edinburgh is a participating institution in the following loans programmes, meaning we certify your student status and can help with the application process.

- **The Canada Student Loans Program** ●●●  
The University is eligible to certify Canadian student loan applications: [www.ed.ac.uk/student-funding/canadian-loans](http://www.ed.ac.uk/student-funding/canadian-loans)
- **Erasmus+** ●  
The Erasmus+ Master Loan helps masters students with their living and tuition costs when studying in an Erasmus+ country other than where they live or where they took their first degree. For more information: <https://erasmusplus.org.uk/master-loan>
- **Postgraduate Loans (PGL) England** ●●  
Student Finance England offers postgraduate loans for taught and research masters programmes, payable to eligible students: [www.gov.uk/postgraduate-loan](http://www.gov.uk/postgraduate-loan)
- **Postgraduate Loans (PGL) Northern Ireland** ●●  
Student Finance Northern Ireland offers a tuition fee loan for taught and research programmes, at certificate-, diploma-, and masters-level, which will be paid directly to the University: [www.studentfinancenai.co.uk](http://www.studentfinancenai.co.uk)
- **Postgraduate Loans (SAAS) Scotland and EU** ●●  
The Student Awards Agency Scotland offers tuition fee loans for taught diploma and masters programmes which will be paid directly to the University. Full-time students resident in Scotland can also apply for a non-income assessed living cost loan: [www.saas.gov.uk](http://www.saas.gov.uk)
- **Postgraduate Loans (PGL) Wales** ●●  
Student Finance Wales offers eligible students postgraduate loans for taught and research masters programmes: [www.studentfinancewales.co.uk](http://www.studentfinancewales.co.uk)

## US Student Loans

The University is eligible to certify loan applications for US loan students. Full details on eligibility and how to apply can be found online: [www.ed.ac.uk/student-funding/us-loans](http://www.ed.ac.uk/student-funding/us-loans)

## Other sources of funding

The following are examples of the many scholarships and support schemes available to students from particular countries who meet certain eligibility criteria.

- **Chevening Scholarships** ●●  
A number of partial and full funding scholarships are available to one-year masters students: [www.chevening.org](http://www.chevening.org)
- **Colt Foundation Fellowships in Occupational/Environmental Health** ●  
The Colt Foundation supports high-quality research projects in the field of occupational and environmental health, particularly those aimed at discovering the cause of illness arising from conditions in the workplace. The Foundation makes a number of grants each year to PhD students who are investigating topics relevant to this field of research: [www.ed.ac.uk/student-funding/colt](http://www.ed.ac.uk/student-funding/colt)
- **Commonwealth Scholarships** ●●●  
Scholarships available to students who are resident in any Commonwealth country, other than the UK: [www.dfid.gov.uk/cscuk](http://www.dfid.gov.uk/cscuk)
- **Marshall Scholarships (USA)** ●●●  
Scholarships available to outstanding US students wishing to study at any UK university for at least two years: [www.marshallscholarship.org](http://www.marshallscholarship.org)
- **Scotland's Saltire Scholarships** ●●  
A number of scholarships open to students who are citizens permanently and ordinarily resident in Canada, China, India, Pakistan and the USA for one year of masters study: [www.ed.ac.uk/student-funding/saltire](http://www.ed.ac.uk/student-funding/saltire)

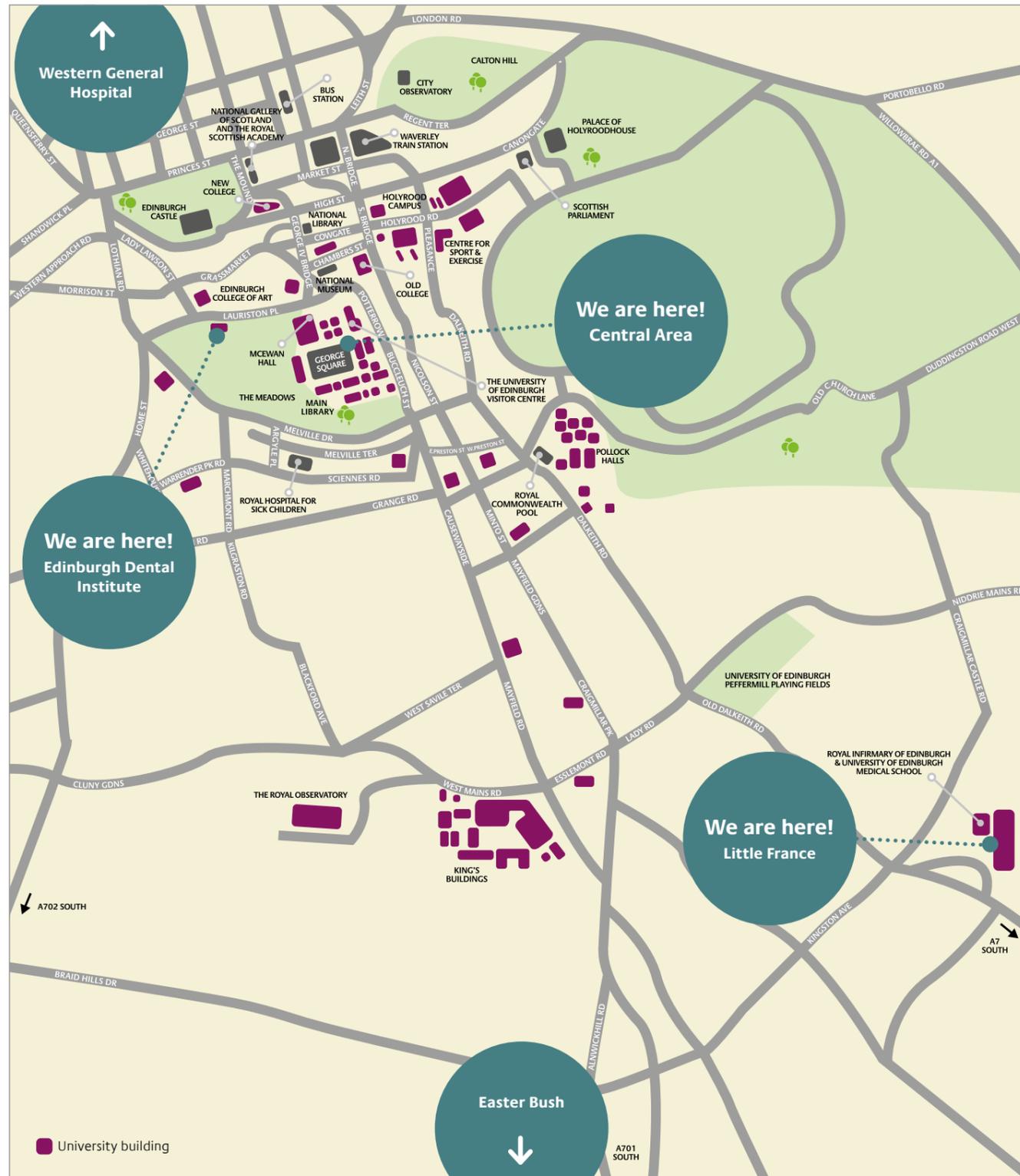
## Funding for online learning

The University offers several scholarships specifically for online, part-time postgraduate programmes, including the Edinburgh Global Online Distance Learning Masters Scholarship, for which applicants to many of our masters programmes can apply: [www.ed.ac.uk/student-funding/e-learning/online-distance](http://www.ed.ac.uk/student-funding/e-learning/online-distance)

# Campus maps

The College of Medicine & Veterinary Medicine is based at sites throughout the city of Edinburgh. Many of our teaching and research facilities are located side by side with clinical practice.

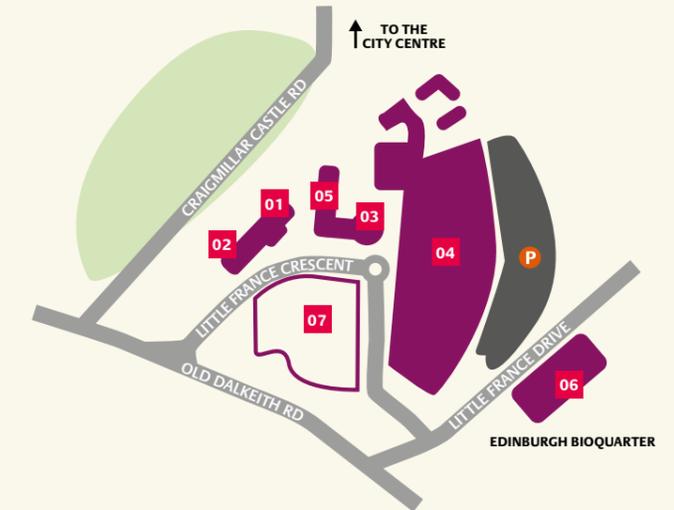
Detailed maps can be found at:  
[www.ed.ac.uk/maps](http://www.ed.ac.uk/maps)



## Little France

- 01 Queen's Medical Research Institute
- 02 Clinical Research Imaging Centre
- 03 Chancellor's Building
- 04 The Royal Infirmary of Edinburgh
- 05 Anne Rowling Neurology Clinic
- 06 Scottish Centre for Regenerative Medicine
- 07 Royal Hospital for Sick Kids (under construction)

**P** Parking

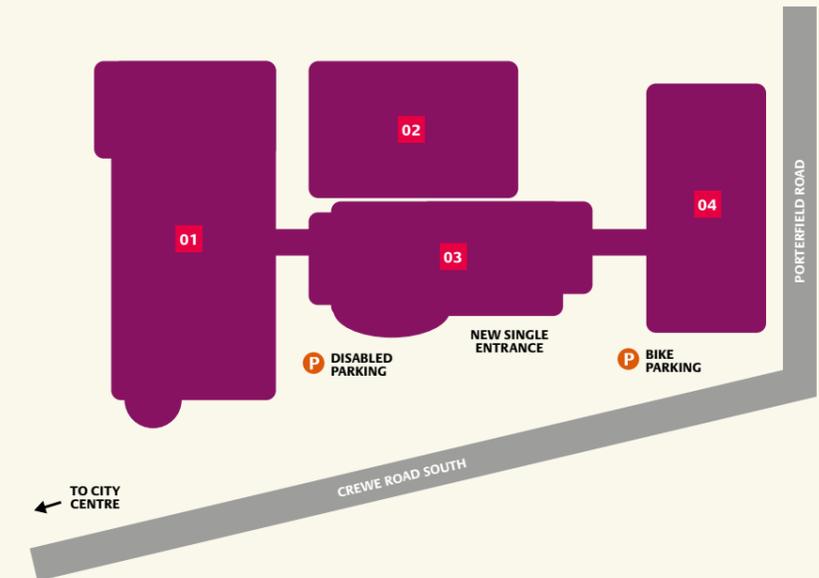


We are here!

## Western General

- 01 ECRC (IGMM South)
- 02 MRC HGU (IGMM Central & West)
- 03 New IGMM Building (IGMM East)
- 04 CGEM (IGMM North)

**P** Parking



We are here!

# Get in touch

## Contact us

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[www.ed.ac.uk/medicine-vet-medicine/postgraduate](http://www.ed.ac.uk/medicine-vet-medicine/postgraduate)

Explore postgraduate life through our films, ezines and student blogs.  
[www.ed.ac.uk/medicine-vet-medicine/postgraduate/postgraduate-life](http://www.ed.ac.uk/medicine-vet-medicine/postgraduate/postgraduate-life)

Join in the conversation on Twitter.

[twitter.com/EdinburghMedVet](https://twitter.com/EdinburghMedVet)

## Visit us

Our Postgraduate Open Day is your opportunity to come and meet current staff and students. Our next campus-based Open Day takes place on Wednesday 15 November 2017. For more information, visit: [www.ed.ac.uk/postgraduate-open-day](http://www.ed.ac.uk/postgraduate-open-day)

## Our visits to you

If you are unable to visit the University, we attend events throughout the year so you can meet and speak to us in person.

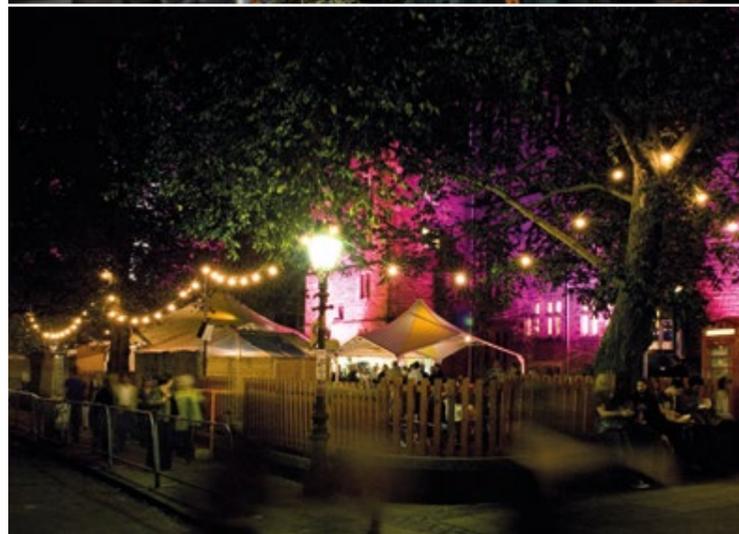
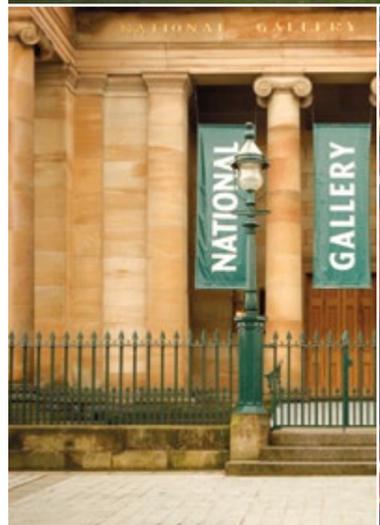
UK and Europe: [www.ed.ac.uk/postgraduate/uk-eu-events](http://www.ed.ac.uk/postgraduate/uk-eu-events)

International: [www.ed.ac.uk/international/our-visits-overseas](http://www.ed.ac.uk/international/our-visits-overseas)

## Chat online

We offer all postgraduate students monthly online information sessions. To find out more and see when the next session will be: [www.ed.ac.uk/postgraduate/online-events](http://www.ed.ac.uk/postgraduate/online-events)

For international students, Edinburgh Global runs two online chat sessions each month. These are timed to give students in all timezones a chance to get involved. You can find out more and register online: [www.ed.ac.uk/international/chat-to-us-online](http://www.ed.ac.uk/international/chat-to-us-online)



*“You are now in a place where the best courses upon Earth are within your reach . . . such an opportunity you will never again have.”*

**Thomas Jefferson, American Founding Father and President**  
(speaking to his son-in-law, Thomas Mann Randolph, as he began his studies at Edinburgh in 1786)

Drawn to  
**EDINBURGH**  
by our world-class university

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**Illustration by:**

Katy Wiedemann, MA Illustration

**The front cover** shows an illustration of an MRI scan of the human head and brain, from a study of schizophrenia and OCD. The illustration highlights the world-leading and life-changing imaging facilities available within the University of Edinburgh, for our research community.

**#drawntoedinburgh**

This publication is available online at [www.ed.ac.uk/postgraduate](http://www.ed.ac.uk/postgraduate) and can be made available in alternative formats on request. Please contact [communications.office@ed.ac.uk](mailto:communications.office@ed.ac.uk) or call +44 (0)131 650 2252.

Printed on Galerie Satin FSC mix, a Forestry Stewardship Council certified paper stock. It was manufactured to ISO 14001 certified environmental management standards, using an elemental chlorine free process. The inks used for printing are vegetable-based and do not contain any harmful volatile organic chemicals.

We have made every effort to ensure the accuracy of the information in this prospectus before going to print. However please check online for the most up-to-date information: [www.ed.ac.uk](http://www.ed.ac.uk)

On 23 June 2016 the UK electorate voted in a national referendum to leave the European Union. At the time of going to print, there was no immediate, material change known that would impact on applicants for 2017 entry. However we recommend that you check online for the latest information before you apply: [www.ed.ac.uk/news/eu](http://www.ed.ac.uk/news/eu)

The University's standard terms and conditions will form an essential part of any contract between the University of Edinburgh and any student offered a place here. Our full terms and conditions are available online: [www.ed.ac.uk/student-recruitment/terms-conditions](http://www.ed.ac.uk/student-recruitment/terms-conditions)

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**Published by:**

Communications and Marketing,  
The University of Edinburgh

**Designed by:**

RRDCreative

**Photography by:**

Nick Callaghan  
Paul Dodds  
Edinburgh Inspiring Capital  
Yao Hui  
Tricia Malley & Ross Gillespie  
Real Edinburgh  
Shutterstock  
Laurence Winram

**Printed by:**

Linney Print

