



THE UNIVERSITY
of EDINBURGH

Postgraduate Opportunities 2020

Medicine & Biomedical Sciences

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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13 Nov 2019
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 Dame 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 an impressive track record 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 20th in the 2020 QS World University Rankings.

4TH

We're ranked fourth in the UK for research power, based on the 2014 Research Excellence Framework.*

83%

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

TOP 100

We're ranked in the top 10 in the UK and in the top 100 in the world for the employability of our graduates.†

£403m

In 2017/18 we won £403 million in competitive research grants.

19

There are 19 Nobel Prize winners who are alumni of the University or have been members of academic staff here.

22ND

We're ranked 22nd in the world's most international universities.‡ Since 2010, we have taught students from more than 160 countries.

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* Times Higher Education, Overall Ranking of Institutions

† Times Higher Education, Global Employability University Ranking 2018

‡ Times Higher Education: The World's Most International Universities 2019

Online learning masters programmes

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

What is online learning and who is it for?

An online programme from the University of Edinburgh has the same standing as an on-campus programme. They are academically equivalent and involve the same level of work overall. When you study by online learning, all of the teaching and interaction with your tutors and classmates happens within our online learning platform. This platform hosts all your course materials, including readings and resources, and is accessible 24/7.

A key feature of our online programmes is that there is normally no requirement to attend the physical campus of the University in person at any point during your studies. This makes online learning an excellent choice for students who are not in a position to take a year out of their busy lives and careers to attend a campus-based programme.

Why choose online learning and what to expect

When you join us as an online student, you join a University-wide community of more than 3,500 students from more than 170 different countries. This provides you with the opportunity to learn and engage with others on a truly global scale.

You may be studying online, but you will be part of a collaborative university experience and will have regular contact with students from around the world and our academic staff here in Edinburgh. Your fellow students will come from a range of backgrounds with many studying outside the UK. Our online environment is designed to support and encourage collaborative learning and you will be taught by academic staff who are among the leading figures in their field and highly passionate about their subjects.

As an online student you will be able to share experiences, engage in academic debate with other students and share examples from your own practice area. Our online programmes are designed to support this engagement and you will use a range of online tools to help you work independently, in pairs or even in groups, all supported, facilitated and moderated by our academic staff.

You will have access to the same support services as on-campus students, with more than 800,000 e-books and e-journals available in the library, and access to careers consultants and IT and academic support services.

Studying online at masters level can lift your career to the next level, whether that be to help you stand out from the crowd or to transition to a new career.

Destinations

The vast majority of our online students (93 per cent) are already in full-time employment and are studying programmes to help them progress within their chosen career. Some of our programmes support well-established professional progression pathways and are targeted at graduates from specific disciplines. Conversely, many of our other programmes welcome students from a variety of backgrounds, and are frequently taken as a stepping stone to a different career.

All our programmes are designed to provide learners with the skills and up-to-date knowledge they require to succeed in their area of choice. They are developed and taught by experienced practitioners and draw from the latest research and knowledge.

Our students tell us our programmes have had a transformative impact on their practice, opened new professional avenues, unleashed their personal potential and reignited their passion for their subjects.



“After completing my programme, I am far more confident challenging poor practice and even more passionate about teaching other practitioners, athletes and coaches in sport about pain.”

Mandy More, MSc Clinical Management of Pain

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 and 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

This 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 sequential basis from our virtual learning environment. Modules may consist of the following structure:

- an introduction to the module topic;
- bespoke learning resources (lectures/screen-casts/narrative);
- a set of resource links to course reading – library and research;
- a discussion board facilitated by a tutor; and
- a set of formative questions to test your knowledge and understanding.

CERTIFICATE COURSES PREVIOUSLY OFFERED INCLUDE:

Fundamentals of Human Anatomy 1; Fundamentals of Human Anatomy 2; Embryology; Neuroanatomy.

DIPLOMA COURSES PREVIOUSLY OFFERED INCLUDE:

Advanced Human Anatomy 1; Advanced Human Anatomy 2; Imaging; Histology; Reflections on Professional Practice.

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 or further study, or will 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), 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. Please contact us to check before you apply: anatomical.sciences@ed.ac.uk

English language requirements

See page 58.

Fees and funding

For fees see page 58 and for funding information see page 60.

Programme Director Jennifer Paxton

Tel +44 (0)131 651 5250

www.ed.ac.uk/pg/964

Applied Medical Image Analysis



PgCert up to 2 yrs PT

Programme description

This programme aims to educate a new generation of medical image analysts. Medical image processing and analysis is of paramount importance in the field of medicine, especially in non-invasive treatment and clinical study. There is a clear need for the accurate interpretation and analysis of medical images, which involves the need for a computer system to process, manipulate and analyse images in a systematic and often automated manner.

You will study the physics of imaging and related techniques, as well as specialised content covering image processing and analysis, practical image analysis skills, and the use of the MATLAB computing environment and programming language.

Programme structure

You will complete 60 credits of compulsory taught courses.

COMPULSORY COURSES PROPOSED INCLUDE:

Techniques & Physics; Practical Image Analysis 1; Image Analysis; Practical Image Analysis 2; Common Image Processing Techniques 2.

Career opportunities

Completion of this programme will allow learners from a range of disciplines to acquire a knowledge base and skill set that will support engagement and employment in the field of image processing and analysis.

Entry requirements

A UK 2:1 honours degree or its international equivalent (www.ed.ac.uk/international/graduate-entry), in fields such as medicine, veterinary medicine, radiology, radiography, radiotherapy, nursing, biological sciences, biomedical sciences, pharmacology, chemistry, physics, engineering, image analysis, image processing, computer science, informatics, neurology, neurosurgery, psychiatry, psychology, stroke medicine, geriatrics/medicine of the elderly, and neurosciences.

We may also consider your application if you have work experience in a related scientific area, e.g. in hospital or research laboratories, for three or more years. Please contact us to check before you apply.

English language requirements

See page 58.

Fees and funding

For fees see page 58 and for funding information see page 60.

Programme Director Charis Alexakis

Email imaging.msc@ed.ac.uk

www.ed.ac.uk/pg/646

Biodiversity, Wildlife & Ecosystem Health



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 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: global.ed.ac.uk/global-academies

Programme structure

The programme is delivered using innovative online learning. Our 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. The programme 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

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; Connecting Environment and Society; Conservation and Conflict; Conservation Genetics; Conservation Psychology; Ex-Situ Wildlife Management; Ecosystem Resilience and Extreme Events; An Introduction to Transboundary Diseases; Introduction to GIS and Spatial Data Analysis; Introduction to Wildlife Forensics; Invasive Non-Native Species; Land Use and Food Security; Reflections on Professional Development; Managing and Leading Conservation Projects; The Marine Environment; The Modern Zoo; The Use of Artificial Reproductive Technologies in Threatened Species; Water and Sanitation; Understanding Environmental Law; Wildlife, Animal Health and Environment; Wildlife Trade; Zoonotic Disease.*

*Subject to minimum student numbers and timetabling. A selection of these courses can be taken as PgProfDev.

YEAR 3: MASTERS:

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

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), in a zoological, biological, environmental, veterinary or relevant conservation-related 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 58.

Fees and funding

For fees see page 58 and for funding information see page 60.

Programme Director Sharron Ogle
Email 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

This programme takes advantage of our world-renowned expertise to enhance your abilities to teach and assess students in a clinical environment. It is ideal for those with an educational role in relation to healthcare professionals and veterinary practitioners, including doctors, nurses, dental practitioners, clinical psychologists, occupational therapists, and those involved with veterinary education or associated scientists (biomedical or social). We will 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. You will gain the knowledge and skills to deliver, develop and research high-quality clinical education in your own discipline. This programme is affiliated with NHS Education for Scotland and the University's Global Health Academy and accredited by the Royal Australasian College of Surgeons. After completing the PgCert and meeting qualifying criteria, you will be eligible to apply for Fellowship of the Higher Education Academy and for membership of the Academy of Medical Educators.

Programme structure

You take three courses at both PgCert and PgDip stage, then complete your thesis in Year 3. Teaching is online and you will be expected to use self-directed learning, peer discussion boards, peer presentations, tutorials and other e-learning activities to engage with the course. Accelerated routes are available in discussion with the programme team.

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:

Personal and Professional Development for Practice; Research in Clinical Education; Policy, Leadership, Management and Evaluation; Quantitative Research in Clinical Education; Current Issues in Clinical Education; Simulation Methodology for Clinical Education; Clinical Education and Digital Culture. Please note, courses will run subject to demand. We will notify you if alternative course choice is required.

YEAR 3: MASTERS:

A research report of approximately 15,000 words. You can choose to submit this as a paper for publication with a supporting commentary.

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, helping you reflect upon and share insights about your practice, understand and apply educational theories and evidence from literature, and develop a good solid foundation in clinical education and educational research upon which to build your 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). 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 58.

Fees and funding

For fees see page 58 and for funding information see page 60.

Programme Director Gill Aitken
Email clinicaleducation@ed.ac.uk

Key FT: Full time. PT: Part time.

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, social 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

Compulsory PgCert courses provide a theoretical foundation and you will then be able to broaden your understanding of specialist areas of pain management, developing your knowledge to meet specific professional and academic needs. For PgDip you will select career-relevant options.

CERTIFICATE COURSES PREVIOUSLY OFFERED INCLUDE:

Pain - A Multidimensional Phenomenon; Assessment, Measurement and the Multidisciplinary Approach; Introduction to Pain Management in Practice; Neuroanatomy and Neurophysiology and its Relevance to Pain Management; Understanding the Pharmacological Management of Pain; Non-Pharmacological Approaches to Pain Management.

DIPLOMA COURSES PREVIOUSLY OFFERED INCLUDE:

The Management of Acute Pain; Pain Management in the Ageing Population; Pain in Medical Patients; Management of Neuropathic Pain; The Management of Cancer Related Pain; Pain Management of Sport Injuries and Rehabilitation.

MASTERS COURSES PREVIOUSLY OFFERED INCLUDE:

Dissertation in Pain Management; Independent project or 60 credits of taught courses.

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.

Further postgraduate opportunities

We also offer online academic 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. You also have the option to take not-for-credit stand-alone courses as Continuous Professional Development or Continuing Medical Education (CPD/CME).

Entry requirements

A UK 2:1 honours degree, or its international equivalent (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 58.

Fees and funding

For fees see page 58 and for funding information see page 60.

Programme Administrator Olga Paterson
Programme Director Sarah Henderson
Email pain.management@ed.ac.uk

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:

Molecular Diagnostics of Infection; Community Acquired Infections and Public Health; Infection Prevention & Control; HIV Infection and Other Immune-compromised Patients; Clinical Syndromes and Infection; Travel Medicine and Infectious Disease; 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 specialist 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), 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 58.

Fees and funding

For fees see page 58 and for funding information see page 60.

Programme Administrator Sarah Fraser
Tel +44 (0)131 650 3289
Email cmid@ed.ac.uk

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. You will be taught by experienced tutors – 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

The programme involves a minimum 10-15 hours study each week in a flexible, modular manner. Compulsory courses covering the specialities in clinical ophthalmology are aligned to the ophthalmology fellowship curricula of the Royal College of Surgeons of Edinburgh (FRCSEd) and the Royal College of Ophthalmologists (FRCOphth).

YEAR 1 COURSES PREVIOUSLY OFFERED INCLUDE:

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

YEAR 2 COURSES PREVIOUSLY OFFERED INCLUDE:

You will study two compulsory courses: *Ophthalmology 2*; *Core Academic Activity* (includes research methods and reflective ePortfolio). You will attend an Examination (MCQ and EMI) for the taught courses from Years 1 and 2. You will complete a research project for the compulsory *Specialist Academic Activity* course, which is assessed in phases and includes a final 7,500-10,000 word e-report.

Career opportunities

This programme provides advanced training for medical and surgical ophthalmologists preparing for the fellowship examinations of the RCSEd, RCOphth and International Council of Ophthalmology and for those approaching consultancy. It will prepare you to integrate academia or research into your career without taking time out of training or practice, highlight your commitment to continuing professional development and lend 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 specialities and 18 months of specialty training in ophthalmology before enrolling. We will also consider your application if you are an established, ophthalmologist in independent practice.

English language requirements

See page 58.

Fees and funding

For fees see page 58 and for funding information see page 60.

Programme Director Professor Baljean Dhillon
Course Organiser Dr Heather Ellis
Tel +44 (0)131 651 4932
Email chm.info@ed.ac.uk

www.ed.ac.uk/pg/809

Clinical Trials



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 is a part-time programme taught entirely online. It aims to support the demand for appropriately qualified health professionals who will lead clinical trials of all phases. It provides you with the opportunity to select courses relevant to your speciality and area of interest. The programme provides a tailored learning experience which targets the diverse needs of students. The programme will be relevant for those wishing to gain an overall understanding of clinical trials before moving into the field. It is also ideal for those who have general or specialist experience in this area and are looking to broaden their role in the design, management, analysis and reporting of clinical trials.

Programme structure

The programme is delivered using innovative online learning. It involves a mixed teaching approach which includes online lectures and tutorials, independent study and reflection as well as online discussion and group project work and other e-learning activities to engage with and get the most from the course materials. 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.

YEAR 1: CERTIFICATE COURSES PREVIOUSLY OFFERED INCLUDE:

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

YEAR 2: DIPLOMA 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 Pharmacology*; *Health Economics*.

YEAR 3: MASTERS COURSES PREVIOUSLY OFFERED INCLUDE:

MSc Clinical Trials Dissertation.

Career opportunities

The programme aims to equip you 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. Potential career opportunities include trial and data management, statistics, regulation of clinical trials, clinical research, quality assurance and medical writing. The programme is designed to highlight your commitment to continual professional development and will ensure a competitive edge when applying for future employment positions.

Entry requirements

A UK 2:1 honours degree, or its international equivalent (www.ed.ac.uk/international/graduate-entry), in medicine (MBChB or equivalent) or a health-related discipline (nursing, pharmacy, biological or life sciences). 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 58.

Fees and funding

For fees see page 58 and for funding information see page 60.

Programme Director Stuart Ralston
Programme Co-Director Michelle Evans
Email mscct@ed.ac.uk

Key FT: Full time. PT: Part time.

www.ed.ac.uk/pg/975

Critical Care



MSc 3 yrs PT. PgDip 2 yrs PT. PgCert 1 yr PT.

Programme description

This programme is designed for healthcare professionals who encounter critically ill adults in their daily practice, such as nurses, doctors in training, physiotherapists, senior doctors from all specialties, paramedics, and dieticians. You will study clinical subjects covering recognition of critical illness, initial treatment and stabilisation, advanced organ system support, coordination of care within the intensive care unit, and human factors. This will provide a comprehensive, practical and evidence-based knowledge that can easily be applied in clinical practice. You will also become equipped with the skills to access and appraise the biomedical literature, allowing you to actively participate in clinical discussions and develop as an independent and critical thinker, able to appraise primary and secondary research and incorporate it into your personal practice.

Programme structure

You will study the clinical management of critically unwell adults through your compulsory courses and develop expertise in accessing, interpreting and integrating the findings of research into clinical care.

YEAR 1: CERTIFICATE COURSES INCLUDE:

You will study: *Fundamentals of Critical Care*; *Unlocking the Literature: Clinical Trials*; *Core Clinical Practice in Critical Care*; *Trauma, Toxicology and Temperature*; *Sepsis and Infection*. You will also choose either *Human Factors in Critical Care* or *Principles of Quality Improvement in Healthcare*.

YEAR 2: DIPLOMA COURSES INCLUDE:

You will study: *Unlocking the Literature: Non-interventional Studies*; *Understanding Disease Mechanisms to Provide Optimal Organ Support*; *Unlocking the Literature: Evidence to Practice*; *Neurological Critical Care*. You will be able to select two option courses to customise your programme.

YEAR 3: MASTERS COURSES INCLUDE:

You will complete a masters dissertation in the form of a project report on a piece of original clinical research, a systematic review, the development of a substantial clinical guideline, a quality improvement project, or a report demonstrating practice change.

Career opportunities

Graduate opportunities will depend on your base specialty. Doctors in training and medical graduates will be highly competitive for postgraduate training schemes in critical care, anaesthesia, emergency medicine, and acute medicine, and will find the qualification advantageous for other postgraduate training posts. Nurse graduates will be highly competitive for senior nursing roles and advanced practitioner training positions. Allied health practitioners, such as physiotherapists and dieticians, will be highly competitive for leadership positions in their base specialty.

Entry requirements

A UK 2:1 honours degree, or its international equivalent (www.ed.ac.uk/international/graduate-entry), in medicine (MBChB or equivalent), nursing, dietetics, physiotherapy, or any other allied health care profession involved in the management of critically ill patients. In addition, you must demonstrate experience of working with critically ill patients for a period of more than three months.

English language requirements

See page 58.

Fees and funding

For fees see page 58 and for funding information see page 60.

Programme Directors David Griffith and Graham Nimmo
Programme Administrator Olga Paterson
Email critical.care@ed.ac.uk

www.ed.ac.uk/pg/958

Dental Sedation & Anxiety Management



PgCert 12 mths PT

Programme description

This programme is offered predominantly by online learning but potential applicants should note that there is an expected clinical commitment of one day a month, hosted by the Edinburgh Dental Institute, where you will gain clinical experience in providing conscious sedation for patients. It is aimed at dental practitioners either in primary or secondary care who wish to introduce this invaluable skill into their practice or formalise their existing training and experience. It is the only university-based programme in dental sedation in Scotland.

Programme structure

This programme will provide dental practitioners with the skills and knowledge required to provide a conscious sedation service within their practice. The online courses run over a period of five weeks, with participation in online discussion boards and journal club expected. You are strongly encouraged to maintain a reflective personal journal of your clinical experience alongside a sedation logbook as you progress through the programme.

Applicants should be aware that there is significant time commitment not only to the clinical days, which are once a month hosted at the Edinburgh Dental Institute, but also to the online learning material and tasks which are estimated to take at least 10 hours per week.

The course is taught and run by dental staff experienced in dental sedation, with some visiting guest lecturers.

Career opportunities

Completion of this programme will allow a dental practitioner to fulfil the training requirements as set out by the Intercollegiate Advisory Committee in Dental Sedation (IACSD) and therefore provide independent, unsupervised practice in conscious sedation.

Entry requirements

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

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.

All successful applicants will be required to gain Occupational Health clearance prior to commencing any clinical work.

Applications are not accepted from candidates who do not have full registration with the General Dental Council.

English language requirements

See page 58.

Fees and funding

For fees see page 58 and for funding information see page 60.

Programme Contact Julie Burke
Tel +44 (0)131 536 3982
Email epdi@ed.ac.uk

www.ed.ac.uk/pg/870

Family Medicine



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

Programme description

Strengthening family medicine has been recognised as a key component of achieving universal health coverage as part of the sustainable development goals to which every country committed at the last United Nations General Assembly. This programme aims to build on this momentum for strengthening primary care by developing competent family physicians who are empowered to become leaders and advocates for the future of the profession. It brings together students from a variety of countries across the world, each with their own unique experiences, to create a vibrant global learning community.

The programme will equip students with the skills to become expert family physicians whose approach will provide continuous, coordinated, comprehensive and cost effective care built around an understanding of the patient in the context of the family and the community.

Programme structure

There are three compulsory courses in Years 1 and 2 of the programme. This is followed by a project year, which includes a preparatory course in research methods. We deliver lectures and tutorials online and you will be expected to use self-directed learning, peer-discussion boards, tutorials, 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:

Foundations of Family Medicine; Applied Principles of Family Medicine; Professionalism in Family Practice.

YEAR 2: DIPLOMA COURSES PREVIOUSLY OFFERED INCLUDE:

Family Medicine Approach to Maternal and Child Health; Family Medicine Approach to NCDs; Family Medicine Approach to Patients with Complex Needs.

YEAR 3: MASTERS COURSES PREVIOUSLY OFFERED INCLUDE:

Research Methods; Family Medicine Project.

Career opportunities

This programme 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 prepare you to integrate academia or research into your career.

Entry requirements

A medical degree (MBChB) or its international equivalent is required.

We may also consider applicants who are in a profession allied to medicine or have relevant work experience in a clinical context. Please contact us to check before you apply.

English language requirements

See page 58.

Fees and funding

For fees see page 58 and for funding information see page 60.

Programme Directors David Weller, Robin Ramsay, and Liz Grant
Programme Administrator Jane Dumayne
Email family.medicine@ed.ac.uk

www.ed.ac.uk/pg/697

General Surgery



ChM 2 yrs PT

Programme description

This programme is offered jointly by the Royal College of Surgeons of Edinburgh and the University of Edinburgh and leads to the award of Master of Surgery (ChM). It runs alongside clinical training and complements in-the-workplace training. Based on the UK Intercollegiate Surgical curriculum, it offers trainees in general surgery a chance to study topics relevant to the specialty, and supports preparation for final professional exit exams such as the FRCS.

Programme structure

Delivered through an online learning environment, the programme runs on a semester basis and involves 10-15 hours study each week in a flexible, modular manner. Knowledge and understanding will be assessed in Year 2 following completion of specialty courses, with a formal MCQ examination designed to replicate the FRCS exam.

YEAR 1 COURSES PREVIOUSLY OFFERED INCLUDE:

Emergency Trauma, Critical Care and General Surgery 1 & 2; Vascular & Transplant; Breast; Endocrine; Colorectal; Oesophago-gastric; Hepatopancreatobiliary.

YEAR 2 COURSES PREVIOUSLY OFFERED INCLUDE:

Emergency Trauma, Critical Care and General Surgery 3; Core Academic Activity (Research Methodology; Study Design and Reflective ePortfolio); Specialist Academic Activity (Research Project); MCQ Examination.

Career opportunities

All of our students are in full-time surgical training posts during their study. The programme is designed to follow the FRCS 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 for 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 58.

Fees and funding

For fees see page 58 and for funding information see page 60.

Programme Director Ewen Harrison
Email chm.info@ed.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

Key FT: Full time. PT: Part time.

www.ed.ac.uk/pg/852

Global eHealth



PgCert 1-2 yrs PT. PgProfDev 5 or 10 weeks

Programme description

The field of eHealth, also known as digital health or health informatics, is interdisciplinary and involves applying information infrastructures, digital innovations, new communication channels and data analytics to optimize healthcare services and enable consumer wellness. This is a priority for the international healthcare sector, promising greater efficiencies and effectiveness, as well as the potential to strengthen the quality and sustainability of global health systems. It also represents an important growth area for the digital economy and is attracting considerable investment worldwide.

This executive-level graduate programme aims to grow strategic global capacity in eHealth by giving you the interdisciplinary knowledge and skills to effectively design, commission, lead and evaluate eHealth projects and programmes. The comprehensive portfolio of courses covers cross-cutting topics such as policy, governance, evaluation and managing transformational change, and specialist courses in areas such as telemedicine, public health informatics and health data science. It is typically suited to early- to mid-career professionals, including healthcare practitioners and health IT specialists, policymakers and civil servants, global development specialists/NGOs, management consultants, academic researchers, technology vendors and digital health innovators.

Programme structure

Courses are delivered online using a combination of multimedia interactive learning materials, live streamed tutorials, peer-to-peer discussion and independent study. A professional team of experts and e-learning technologists will support your progress.

COURSES PREVIOUSLY OFFERED INCLUDE:

Introduction to Health Informatics and eHealth; Health Informatics - Core Technologies and Systems; The Ethics and Governance of eHealth; Telemedicine and Telehealth; The Business of eHealth; mHealth in High and Low Resource Settings; User-centred Design; Public Health Informatics; Consumer and Patient eHealth; Managing Change; Medical Informatics (Health Data Science).

Career opportunities

Graduates will have the knowledge and skills to advance their existing careers or to pursue new opportunities within healthcare or government organisations, the innovation or corporate business sectors, global development agencies, or in research and consulting.

Entry requirements

A UK 2:1 honours degree, or its international equivalent (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. We may also consider applicants with alternative qualifications, or equivalent professional experience; please contact us to check before you apply.

English language requirements

See page 58.

Fees and funding

For fees see page 58 and for funding information see page 60.

Programme Director Claudia Pagliari
Email global.ehealth@ed.ac.uk

www.ed.ac.uk/pg/413

Global Health & 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 brings together a diverse community of online learners with trans-disciplinary opportunities to identify, explore and address regional and global health challenges related to infectious diseases.

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 a range of courses focusing on a variety of global health contexts. This is a 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: www.ed.ac.uk/global-health

Programme structure

This programme is delivered entirely online which allows you to combine work or other responsibilities with gaining a highly regarded qualification. Part-time study allows you to complete an MSc in three years, a PgDip in two years or a PgCert in one year. Intermittent study allows you up to six years to complete the MSc.

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:

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), 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 58.

Fees and funding

For fees see page 58 and for funding information see page 60.

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: www.ed.ac.uk/global-health

Programme structure

The programme is delivered using an innovative blend of online learning opportunities. 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.

CERTIFICATE COURSES PREVIOUSLY OFFERED INCLUDE:

Global Health Challenges: an Introduction; Evaluation of Global Health and Development Programmes; Maternal and Child Health in a Global Context.

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), 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 58.

Fees and funding

For fees see page 58 and for funding information see page 60.

Programme Director Liz Grant
Programme Coordinator Varia Christie
Email globalchallenges.health@ed.ac.uk

www.ed.ac.uk/pg/702

Global Health Studies

PgCert 3 yrs PT intermittent study.
PgProfDev 2 yrs PT intermittent study

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 diseases, sanitation and water issues, conservation and global citizenship.

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 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). A biomedical, medical, public health, veterinary or relevant bioscience topic is particularly suitable for this programme. 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 58.

Fees and funding

For fees see page 58 and for funding information see page 60.

Programme Director Kim Picozzi
Email 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). 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

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; 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*.

MASTERS:

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), in medicine, veterinary medicine, radiology, radiography, radiotherapy, nursing, biological sciences, biomedical sciences, pharmacology, chemistry, physics, engineering, image analysis, image processing, computer science, informatics, neurology, neurosurgery, psychiatry, psychology, stroke medicine, geriatrics/medicine of the elderly, or neurosciences. We may also consider your application if you have a minimum of three years' work experience in a related scientific area. Please contact us to check.

English language requirements

See page 58.

Fees and funding

For fees see page 58 and for funding information see page 60.

Programme Contact Charis Alexakis
Email imaging.msc@ed.ac.uk

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), 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 58.

Fees and funding

For fees see page 58 and for funding information see page 60.

Programme Contact Frances Parry
Email internal.medicine@ed.ac.uk

www.ed.ac.uk/pg/241

International Animal Health



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. Building on a solid foundation of biological, immunological, pathological and epidemiological principles, this programme will equip you with the skills needed to identify, control and manage animal diseases and the expertise to tackle the international animal health challenges of the 21st Century.

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

Programme structure

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

CERTIFICATE COURSES PREVIOUSLY OFFERED INCLUDE:

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

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: *The Use of Artificial Reproductive Technologies in Threatened Species; The Modern Zoo; An Introduction to Project Cycle Management; Globalisation and Health; Zoonotic Diseases in a Global Setting; Control of Economically Important Parasites; New Developments in Epidemiology and the Control of Vector-borne Disease; Wildlife Animal Health and Environment; Technology Advances in Veterinary Diagnostics; Project Planning and Decision Support for Animal Disease Control; Introduction to GIS and Spatial Data Analysis; Advanced GIS and Spatial Epidemiology and Modelling; Pastoralism and Herd Health; Socioeconomic Principles for One Health; An Introduction to Vaccinology.*

MASTERS:

You will complete a dissertation, of between 10,000–15,000 words, on a topic of your choice.

Career opportunities

Students have used this programme to develop their knowledge and critical skills on endemic and epidemic disease threats. Many students have also progressed to PhD studies

Entry requirements

A UK 2:1 honours degree, or its international equivalent (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 58.

Fees and funding

For fees see page 58 and for funding information see page 60.

Programme Director Ewan MacLeod
Email iah.onlinemsc@ed.ac.uk

www.ed.ac.uk/pg/234

Neuroimaging for Research



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 and Safety.

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), in medicine, veterinary medicine, radiology, radiography, radiotherapy, nursing, biological sciences, biomedical sciences, pharmacology, chemistry, physics, engineering, image analysis, image processing, computer science, informatics, neurology, neurosurgery, psychiatry, psychology, stroke medicine, geriatrics/medicine of the elderly, or neurosciences. We may also consider your application if you have a minimum of three years' work experience in a related scientific area. Please contact us to check before you apply.

English language requirements

See page 58.

Fees and funding

For fees see page 58 and for funding information see page 60.

Programme Contact Charis Alexakis
Email neuroimaging.msc@ed.ac.uk

Key FT: Full time. PT: Part time.

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.

You will also have the opportunity to choose courses in paediatric critical care medicine, designed to bridge the gap between resuscitation in the emergency department and admission to the paediatric critical care unit (including high dependency and intensive care).

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:

Fundamentals in Paediatric Medicine 1; Fundamentals in Paediatric Emergency Medicine 2; Fundamentals in Paediatric Emergency Medicine 3.

YEAR 2: DIPLOMA COURSES PREVIOUSLY OFFERED INCLUDE:

You will have the option to complete courses in *Paediatric Emergency Medicine (Surgical Emergencies & Trauma/Anaesthesia & Sedation and Additional Topics in Paediatric Emergency Medicine)*, or in *Paediatric Critical Care Medicine (Paediatric Critical Care Medicine 1 and Paediatric Critical Care Medicine 2)*.

YEAR 3: MASTERS COURSES PREVIOUSLY OFFERED INCLUDE:

You will undertake a written reflective element chosen from a wide selection of topics and *Management Issues in Paediatric Emergency Medicine*.

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, e.g. 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 58.

Fees and funding

For fees see page 58 and for funding information see page 60.

Programme Directors Tom Beattie and Paula Midgley
Programme Contact Lisa Horsburgh
Email pecm@ed.ac.uk

The University of Edinburgh
Medicine & Biomedical Sciences Postgraduate Opportunities 2020

www.ed.ac.uk/pg/962

Patient Safety & Clinical Human Factors



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

Programme description

This programme aims to support graduate healthcare professionals (from nurses to surgeons and anaesthetists) to use evidence-based tools and techniques to improve the reliability and safety of everyday healthcare systems and processes. Applicants will be looking to distinguish themselves as experienced in patient safety and, in some way, looking to move towards specialising or taking a management lead in this field. The programme will draw on teaching materials from a global network of enthusiasts.

You will study a broad introduction to the current state of safety in healthcare and how harm comes to patients and gain a detailed understanding of clinical human factors, such as ergonomics. You will look at the state of healthcare and how we can improve safety, examining how good teamwork influences patient outcomes, and improves healthcare and medicine management. You will also focus on quality improvement research and methodologies. In your final year you will submit a project outline, including abstract submission with poster preparation, and complete your dissertation.

Programme structure

You will study six taught courses and complete your dissertation and an independent improvement project.

CERTIFICATE COURSES PROPOSED INCLUDE:

Introduction to Healthcare Delivery and What Leads to Harm; Clinical Human Factors and Ergonomics in Healthcare; Individual and Team Skills.

DIPLOMA COURSES PROPOSED INCLUDE:

Learning from Current Practice and Governance; Training for Safety; Quality Improvement for Safer Practice.

MASTERS

Dissertation and independent improvement project.

Career opportunities

This programme will provide graduates with the skills and knowledge necessary to distinguish themselves not just as a patient safety advocate but as an expert (and leader) in the field. Healthcare management has a current focus on patient safety so a postgraduate qualification in this area could be seen as a means of securing promotion. This programme will be very well suited to individuals who wish to play a leading role driving patient safety and quality improvement initiatives.

Entry requirements

A UK 2:1 honours degree, or its international equivalent (www.ed.ac.uk/international/graduate-entry), in healthcare, with subject areas including medicine, biomedical science or pharmacology/pharmacy, nursing, or psychology. We may also consider your application if you have relevant work experience. Work experience must be in a related scientific area, for example hospital or primary care (preferably based around patient safety, quality improvement research) for three or more years. 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 58.

Fees and funding

For fees see page 58 and for funding information see page 60.

Programme Contact
Tel +44 (0)131 651 6248
Email chm.info@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

Programme description

This MSc, jointly offered by the University and the Royal College of Surgeons of Edinburgh, was developed in partnership with NHS Education for Scotland (NES). It supports optometrists seeking formal training in community-based clinical care with an interest in extended, shared care roles managing ophthalmic patients in partnership with ophthalmology, and early career medical and surgical trainees entering ophthalmology specialist training. It is also relevant to GPs with a special interest in ophthalmology, ophthalmic nurses, orthoptists, dispensing opticians, ophthalmic science practitioners and other allied professionals. Courses align to the ophthalmology fellowship curricula of the Royal College of Surgeons of Edinburgh (FRCSEd), Royal College of Ophthalmologists (FRCOphth) and International Council of Ophthalmology and reflect the postgraduate curricula of the College of Optometrists in the UK.

Programme structure

You will study for a minimum of 10-15 hours a week, participate in online, in-course assessments and attend an end-of-year exam.

CERTIFICATE COURSES PREVIOUSLY OFFERED INCLUDE:

You will study six compulsory courses: *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 Refinement of Referral Criteria.*

DIPLOMA COURSES PREVIOUSLY OFFERED INCLUDE:

You will study six compulsory courses: *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 Refinement of Referral Criteria.* You will also study research methods in preparation for your research project.

MASTERS

You complete four written assessments and a supervised 7,500-10,000 word masters research project in your sub-specialist area of interest.

Career opportunities

This MSc will highlight your commitment to continuing professional development and lend a competitive edge when applying for clinical positions and shared care roles across primary and secondary care. It will prepare you to integrate academia or research into your career, without taking time out of training or practice, and offers first-rate preparation for the ophthalmology fellowship exams of the Royal College of Surgeons of Edinburgh (FRCSEd), the Royal College of Ophthalmologists (FRCOphth) and International Council of Ophthalmology.

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), 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 58.

Fees and funding

For fees see page 58 and for funding information see page 60.

Programme Director Professor Baljean Dhillon
Course Organiser Dr Heather Ellis
Email chm.info@ed.ac.uk

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: 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 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 Design for Public and Global Health.* You will then choose 30 credits of option courses (see online for full list).

YEAR 3: MASTERS

Either a dissertation project worth 60 credits or a compulsory 20-credit individual project, *Integrating Public Health Practice*, plus 40 credits of option courses. Stipulated academic requirements have to be met to move into Year 3.

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), in medicine, nursing, social science, science, biomedicine, or other related discipline.

English language requirements

See page 58.

Fees and funding

For fees see page 58 and for funding information see page 60.

MPH Programme Administration
Email mph.dl@ed.ac.uk

Key FT: Full time. PT: Part time.

www.ed.ac.uk/pg/965

PET-MR Principles & Applications



PgCert up to 2 yrs PT

Programme description

Combined Positron Emission Tomography (PET) and Magnetic Resonance (MR) is an imaging technology which allows information on metabolic function, physiology and anatomy to be collected in a single scanning session for diagnostic and research purposes (such as investigating dementia and cancer).

This programme aims to disseminate hybrid imaging knowledge, skills and understanding to enable effective and efficient PET-MR and PET-CT use clinically and in research, and to educate a new generation of hybrid imaging operators and users.

PET-MR scanners are increasingly being installed in clinical and research settings but current training in how to run and best use such facilities is limited, often requiring long periods of residency, away from work and other personal commitments. We are one of just seven UK centres with a PET-MR scanner and personnel with the expertise to run and use it. This programme harnesses our expertise and translates it into online learning opportunities which will allow you to train in this field without having to be resident in Edinburgh.

Programme structure

Compulsory courses are focused on topics relevant to understanding how PET and MR imaging modalities are brought together into a single scanning unit.

COMPULSORY COURSES PROPOSED INCLUDE:

Techniques & Physics; Applications in Disease; Practicalities and Safety; Hybrid Radionuclide Imaging – PET-MR; Hybrid Radionuclide Imaging – PET-MR; plus a student-led, individually-created course.

Career opportunities

Completion of this programme will allow radiographers and other professionals to acquire a knowledge base and skill set that will support working in a PET-MR or PET-CT unit.

Entry requirements

A UK 2:1 honours degree, or its international equivalent (www.ed.ac.uk/international/graduate-entry), in fields such as medicine, veterinary medicine, radiology, radiography, radiotherapy, nursing, biological sciences, biomedical sciences, pharmacology, chemistry, physics, engineering, image analysis, image processing, computer science, informatics, neurology, neurosurgery, psychiatry, psychology, stroke medicine, geriatrics/medicine of the elderly, or neurosciences.

We may also consider your application if you have a minimum of three years' work experience in a related scientific area, e.g. in hospital or research laboratories. Please contact us to check before you apply.

English language requirements

See page 58.

Fees and funding

For fees see page 58 and for funding information see page 60.

Programme Contact Charis Alexakis
Email imaging.msc@ed.ac.uk

The University of Edinburgh
Medicine & Biomedical Sciences Postgraduate Opportunities 2020

www.ed.ac.uk/pg/789

Restorative Dentistry



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 restorative dental care.

Programme structure

Each course will run over a period of five or 10 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. You 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:

Assessment & Management of Occlusion; Introduction to Clinical Evidence; Introduction to Dental Clinical Photography; Endodontics; Indirect Restorations; Oral Health Assessment & Diagnosis; Periodontal Management; Prevention & Management of Dental Caries; Restoration of Missing Teeth; Treatment Planning.

YEAR 3: MASTERS

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

Career opportunities

This MSc does not allow entry to any specialist lists but will aid promotion in a general 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 Dental Institute to reinforce the clinical-skills coaching element of the teaching.

Entry requirements

A primary dental qualification (such as Bachelor of Dental Surgery), or its international equivalent (www.ed.ac.uk/international/graduate-entry), plus a minimum of one year's post-qualification experience in general dental practice or equivalent.

English language requirements

See page 58.

Fees and funding

For fees see page 58 and for funding information see page 60.

Programme Director Oonagh Lawrie
Email msc.restorativedentistry@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: global.ed.ac.uk/global-academies

Please see page 31 for the on-campus version of this programme.

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; Museum Exhibitions, Interpretation and Informal Learning; Creative Arts in Science Engagement; Principles and Practice in Public Engagement 2.

YEAR 3: MASTERS COURSES PREVIOUSLY OFFERED INCLUDE:

Science Communication and Public Engagement Dissertation. The masters dissertation can be a research or practical project.

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), 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 58.

Fees and funding

For fees see page 58 and for funding information see page 60.

Programme Director Elizabeth Stevenson
Email e.stevenson@ed.ac.uk

www.ed.ac.uk/pg/939

Stem Cells & Translational Neurology



MSc 3-6 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), in neuroscience, anatomy, physiology, pharmacology, physics, medicine, biology or a related science discipline.

English language requirements

See page 58.

Fees and funding

For fees see page 58 and for funding information see page 60.

Programme Administrator Brian Burgon
Tel +44 (0)131 465 9581
Email stemcell-msc@ed.ac.uk

Key FT: Full time. PT: Part time.

www.ed.ac.uk/pg/404

Surgical Sciences



MSc/PgDip/PgCert 3 yrs, 2 yrs or 1 yr 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 a pre-approved local examination centre.

YEAR 1 COURSES PREVIOUSLY OFFERED INCLUDE:

Cardiorespiratory Science; Endocrine, Breast and Cell Biology; Gastrointestinal Surgery; Urology and ENT/OMFS; Locomotor System.

YEAR 2 COURSES PREVIOUSLY OFFERED INCLUDE:

Pre-operative Assessment and Peri-operative Care; Surgical and Communication Skills; Principles of Surgical Management; Critical Care and Trauma; Academic Surgery.

YEAR 3

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

Career opportunities

All of our students are in full-time surgical training posts during their study. This programme complements study for the MRCS professional exam and is seen as a significant milestone in surgical career progression.

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 58.

Fees and funding

For fees see page 58 and for funding information see page 60.

Programme Director Stephen Wigmore
Email surgicalsciences.info@ed.ac.uk

The University of Edinburgh
Medicine & Biomedical Sciences Postgraduate Opportunities 2020

www.ed.ac.uk/pg/791

Trauma & Orthopaedics



ChM 2 yrs PT

Programme description

This two-year programme offered jointly by the Royal College of Surgeons of Edinburgh and the University of Edinburgh, is taught entirely online and leads to the award of Master of Surgery (ChM). It runs alongside clinical training and complements in-the-workplace training. Based on the UK Intercollegiate Surgical curriculum, it offers trainees in orthopaedics a chance to study topics relevant to the speciality, and supports your preparation for final professional exit exams such as the FRCS.

Programme structure

Delivered through an online learning environment, the programme runs on a semester basis and involves 10-15 hours study each week in a flexible, modular manner. Knowledge and understanding will be assessed in Year 2 following completion of specialty courses, with a formal MCQ examination designed to replicate the FRCS exam.

YEAR 1 COURSES PREVIOUSLY OFFERED INCLUDE:

Basic Science 1 & 2; Adult Reconstruction; Shoulder & Elbow; Hand; Spine; Hip; Knee; Ankle & Foot; Paediatric.

YEAR 2 COURSES PREVIOUSLY OFFERED INCLUDE:

Basic Science 3; Core Academic Activity (Research Methodology; Study Design and Reflective ePortfolio); Specialist Academic Activity (Research Project); MCQ Examination.

Career opportunities

All of our students are in full-time surgical training posts during their study. The ChM programme is designed to follow the FRCS 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 for those approaching consultancy.

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 58.

Fees and funding

For fees see page 58 and for funding information see page 60.

Programme Directors John McKinley & Matt Moran
Email chm.info@ed.ac.uk

"I'm very satisfied and proud to be part of the ChM. The wealth of knowledge I'm gaining not only helps my clinical judgement for the patients' benefit but helps me engage in academic discussions with my consultants."

Surgical trainee

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). It runs alongside clinical training and complements in-the-workplace training. Based on the UK Intercollegiate Surgical curriculum, it offers trainees in urology a chance to study topics relevant to the specialty and supports preparation for final professional exit exams such as FRCS and FEBU. Your study will allow you to improve your evidence-based knowledge and enhance your clinical practice.

Programme structure

The programme runs on a semester basis over two years and involves approximately 10–15 hours of study each week. You will be taught through a clinical problem-based approach using asynchronous discussion boards to cover technical skills and procedures relevant to the cases as well as core knowledge and clinical skills. Knowledge and understanding of the specialty is assessed in Year 2 following completion of specialty courses, with a formal MCQ examination (SBAs and EMIs) that replicates the style of the FRCS exam. You will have the opportunity to develop skills in academic surgery and undertake an independent research project. The programme offers an alternative to a dedicated research fellowship for those who do not wish to take time out of clinical practice or training. You will have access to a large learning resource, including key eBooks and journals.

YEAR 1

Oncology 1 (Bladder, Renal, Testis Cancer); Core Urology; Andrology; Stone Disease; Female & Reconstructive Urology; New Technologies & Minimal Access Developments; Paediatric Urology; Transplant Nephrology; New Technologies & Minimal Access Developments.

YEAR 2

Oncology 2 (Prostate and Penile Cancer); Core Academic Activity (Research Methodology and Study Design); Specialist Academic Activity (Research Project).

Career opportunities

This award would highlight your interest in the specialty and commitment to continuing professional development. It is designed to enable you to study for final professional surgical examinations in a structured yet flexible way. Upon completion, you will be able to demonstrate in-depth knowledge of the surgical specialty and application of this knowledge to the systematic assessment and management of surgical patients in the elective, urgent and emergency clinical setting. If you wish to be involved with teaching or research you will also find this a useful qualification.

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 basic training in surgery 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 58.

Fees and funding

For fees see page 58 and for funding information see page 60.

Programme Director Grant Stewart

Email chm.info@ed.ac.uk

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). It runs alongside clinical training and complements in-the-workplace training. Based on the UK Intercollegiate Surgical curriculum, it offers trainees in vascular and endovascular surgery a chance to study topics relevant to the specialty and supports preparation for final professional exit exams such as FRCS and FEBVS. Your study will allow you to improve your evidence-based knowledge and enhance your clinical practice.

Programme structure

The programme runs on a semester basis over two years (or four years on the intermittent programme) and involves approximately 10–15 hours of study each week. You will be taught through a clinical problem-based approach using asynchronous discussion boards to cover technical skills and procedures relevant to the cases as well as core knowledge and clinical skills. Knowledge and understanding of the specialty is assessed in Year 2 following completion of specialty courses, with a formal MCQ examination (SBAs and EMIs) that replicates the style of the FRCS exam. You will have the opportunity to develop skills in academic surgery and undertake an independent research project. The programme offers an alternative to a dedicated research fellowship for those who do not wish to take time out of clinical practice or training. You will have access to a large learning resource, including key eBooks and journals.

YEAR 1

Principles of Vascular Practice; Principles of Endovascular Practice; Open Surgery & Infection in Vascular Practice; Vascular Imaging; Aneurysms; Chronic Limb Ischaemia & Complications of Diabetes; Renal & Mesenteric Vascular Disorders; Cerebro-vascular Disorders; Acute Limb Ischaemia & Vascular Trauma; Upper Limb & Non-atheromatous Lower Limb Disorders; Venous & Lymphatic Disorders.

YEAR 2

Critical Care & Emergency Surgery; Core Academic Activity (Research Methodology and Study Design); Specialist Academic Activity (Research Project).

Career opportunities

This award would highlight your interest in the specialty and commitment to continuing professional development. It is designed to enable you to study for final professional surgical examinations in a structured yet flexible way. Upon completion, you will be able to demonstrate in-depth knowledge of the surgical specialty and application of this knowledge to the systematic assessment and management of surgical patients in the elective, urgent and emergency clinical setting. If you wish to be involved with teaching or research you will also find this a useful qualification.

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 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 basic training in surgery and two years of specialty training in vascular surgery before enrolling for the ChM. Surgeons who have a consultant or career grade post (or equivalent) in vascular surgery are also eligible for entry.

English language requirements

See page 58.

Fees and funding

For fees see page 58 and for funding information see page 60.

Programme Director Andy Tambyraja

Email chm.info@ed.ac.uk

Postgraduate professional development

You can choose to study either a single course or multiple courses via the Postgraduate Professional Development (PPD or PgProfDev) scheme. This is aimed at working professionals who want to advance their knowledge through a postgraduate-level programme, without the time or financial commitment that is required to embark on a full masters degree, postgraduate diploma or postgraduate certificate.

Individual courses on many of our online programmes may be taken as academic, 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. PPD is an excellent choice if you only want to take a single course or if you are unsure about either the commitment required or the experience of studying online.

Full details can be found online:
www.ed.ac.uk/medicine-vet-medicine/professional-development

See also...

You may also be interested in our on-campus programmes (see pages 24-31) or the online learning programmes offered elsewhere in the University, particularly One Health, offered by the Royal (Dick) School of Veterinary Studies.

www.ed.ac.uk/studying/prospectus-request

“What I like best about my programme is its flexibility and accessibility. With my unpredictable work schedule, I am grateful for the opportunity to study when, where and how I can. It has been great.”

Kristna Thompson, MSc Clinical Education (online learning)





“My programme is designed to build your skills and techniques, which will be beneficial in both academic and industrial careers, irrespective of your background. It also gives you valuable opportunities to meet and interact with renowned scientists from across the biomedical sector.”

Nithya Nair,
MSc by Research Biomedical Sciences

On-campus taught masters and masters by research programmes

Our on-campus programmes are designed to develop knowledge or techniques in specialised subjects that are studied more generally at undergraduate level.

Taught masters

What are they and who are they for?

A taught masters programme is an intensive, higher level academic degree normally consisting of a series of taught courses, delivered through lectures, tutorials and practical work, and culminating in the submission of a dissertation or project. A taught masters can be completed in one year full time or up to six years part time.

A taught masters is the choice for you, if you have completed an undergraduate degree and want to develop more specialised knowledge in the same subject area. It might also be the right choice if you want to change or develop your area of specialisation. This might be particularly relevant if your career aspirations involve professional examinations or qualifications.

Why choose a taught masters degree and what to expect?

A taught masters will provide you with an excellent opportunity to delve deeper into a specific area of knowledge or to acquire expertise in a field that you haven't studied academically before. It will suit you if you enjoy studying a range of areas around a central subject and enjoy learning, and being assessed, in different ways, including examinations, coursework, dissertations and group projects. You may find a taught masters suits you if you enjoy attending classes with a cohort of other students and enjoy group learning and the collegiate atmosphere this can bring.

You will develop a well-rounded and transferable skill set, including time management, communication, project management and critical analysis, that will enhance your employability. The qualification will show potential employers that you have drive and motivation. The knowledge and skills you will learn will enhance your CV and help you stand out from the crowd in the competitive jobs market.

Destinations

Our taught masters provide you with the up-to-date knowledge and skills required to succeed in your chosen field. Most of our students go on to develop their professional careers in their chosen area, while others progress to further study, such as a PhD.

Our programmes are developed and taught by researchers and practitioners in the field and feature frequent contributions from industry experts. They are constantly evolving to reflect the latest debates and changes in the sector, so you can be sure you are receiving the best possible foundations for a successful career.

Masters by research

What are they and who are they for?

A masters by research is for you if you want to increase your specialised subject knowledge and gain experience of practical research work in an environment that promotes independence. A masters by research will get you out of the classroom and into a working environment. You will learn by undertaking focused project work, embedded in an established research area, combined with elements of training in vocational and translational skills. A masters by research will be ideal if you are considering a PhD but would like more research experience beforehand, or if you simply want to increase your research experience before entering employment.

Why choose a masters by research and what to expect?

A masters by research provides direct experience of the realities of working at the forefront of academic research. Typically you will undertake up to three individual research projects during the year, depending on the programme, under the supervision of an active member of research staff. You will learn how to conduct research, perfecting the techniques relevant to your project alongside approaches to project management. You will be expected to develop the ability to plan and work independently but within a team structure. The skills you obtain will prepare you for a higher degree (PhD) or a career in research (academic or industrial) and will provide you with planning, problem solving and analytical abilities relevant to a range of different career paths.

Destinations

Recent data shows that of students completing a Masters by Research in Edinburgh, 57 per cent went on to further study (mostly PhD programmes), and 35 per cent entered work – 87 per cent of these in graduate-level jobs.

www.ed.ac.uk/pg/244

Biomedical Sciences (Life Sciences)

MSc by Research 1 yr FT

Programme description

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

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 MARCH)

Projects previously offered have included those in the research areas of: Cardiovascular Biology; Cell Communication; Genomics & Biological Pathways; Infectious Diseases; Mechanisms of Inflammatory Disease; Reproductive Science; Stem Cells, Tissue injury and Regenerative Medicine.

PROJECT 2 (APRIL TO AUGUST)

Projects previously offered have included those in the research areas of: Biological Architecture; Biomedical Imaging; Cancer Biology; Genes & Disease; Genomic Technologies; Molecular & Cellular Mechanism of Inflammation; Reproductive Science.

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.

RESEARCH PROPOSAL

You will 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 pharmaceutical 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), in biological, chemical or physical sciences.

English language requirements

See page 58.

Fees and funding

For fees see page 58 and for funding information see page 60.

Programme Director Paul Le Tissier

Email paul.letissier@ed.ac.uk



“My masters by research gave me the chance to undertake two very different projects. This helped me to decide on my future career, while building a wide range of skills.”

Nithya Nair,
MSc by Research Biomedical Sciences

www.ed.ac.uk/pg/205

Cardiovascular Biology

MSc by Research 1 yr FT

Programme description

This programme provides broad-based training in biomedical research with a focus on cardiovascular biology. Subject areas are aligned with the themes pursued by researchers within the Centre for Cardiovascular Science and include cardiovascular injury, repair and regeneration; metabolism, obesity and diabetes; hypertension and renal; and cardiometabolic imaging. You will gain integrated training in the physiology and pathology of the cardiovascular system from both basic and clinical scientists, with opportunities to gain experience in cutting-edge methodologies.

Although the majority of your time will be spent conducting laboratory-based research, structured teaching from leading principal investigators is also included within the course to provide a wide-ranging overview of the field.

Programme structure

You will carry out two 10-week research projects and one 20-week research project. Each research project will be followed by a final scientific report. Prior to initiating your final 20-week project, you will compile a research proposal. You will also deliver a research-orientated presentation and gain skills in critical reading of scientific literature. Experts in their scientific field will provide twice-weekly tutorial and lecture-style teaching, and there will be opportunities for you to attend guest seminars from internal and external speakers throughout the year.

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), in a relevant biological discipline, or a medical/veterinary degree.

English language requirements

See page 58.

Fees and funding

For fees see page 58 and for funding information see page 60.

Programme Director Scott Webster

Email scott.webster@ed.ac.uk

www.ed.ac.uk/pg/967

Endodontology

DClinDent 3 yrs FT

Programme description

This programme will enrol general dental practitioners who are seeking to become specialist practitioners in the discipline of endodontology. You will take lectures and seminars along with a component of supervised clinical work in order to meet the General Dental Council (GDC) requirements for entry on to the specialist list. Upon completion, you will also be eligible to sit the specialist exit examination (MEndo) at the Royal College of Surgeons.

Programme structure

This programme is designed to provide general dental practitioners with the academic and clinical skill set of a specialist in endodontology. It will use a blended structure of specialist-supervised clinical training in both endodontics and the other restorative disciplines, as well as a structured academic seminar and lecture programme. Upon completion of the DClinDent you will be eligible to sit the specialist exit examination in the mono-specialty at the Royal College of Surgeons of Edinburgh or London.

Career opportunities

On graduation, you will find opportunities in private practice, public healthcare settings and academia. Many graduates will have multiple roles and you will be encouraged to develop into the teachers of tomorrow within the discipline of endodontology.

Entry requirements

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

English language requirements

See page 58.

Fees and funding

For fees see page 58 and for funding information see page 60.

Contact Vasiliki Pothitou

Email pg.dclindent@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/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. Anatomical knowledge will be learned to a level to teach undergraduate and postgraduate students and professions allied to medicine. This strand will involve the dissection of a body in groups of three to five students. The other strand is anatomy pedagogy, covering the theoretical and practical aspects of teaching anatomy. Alongside theoretical lectures and workshops, you will focus on observing the teaching of anatomy to medical undergraduate students, then prepare and carry out your own teaching sessions. Complementing these strands will be an embryology course providing you with an understanding of normal human development and how it can go wrong, manifested in commonly observed congenital abnormalities. You will also study neuroanatomy, the health and safety of embalming procedures and handling bodies, the legal and historical aspects of anatomy in Scotland and the UK, an introduction to the ethics of using bodies in medical education and explore clinical techniques used to image the body.

Programme structure

The programme is made up of five courses plus a summer dissertation project. You will study: Basic Human Anatomy, Imaging, Embryology 1; Basic Human Anatomy, Imaging, Embryology 2; Anatomy Law and Ethics; Neuroanatomy; Teaching Anatomy. Your dissertation will include a 10,000 word report and an oral presentation.

You will have the option to leave after the second semester and, based on your credits, a diploma could be awarded. Alternatively, to gain your masters, you need to complete the dissertation project, which 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), in a medical, biomedical, or relevant bioscience subject, or other subject allied to medicine. We will also consider applications from those with a UK 2:1 in any degree, with relevant work experience, for example professions allied with medicine or a research laboratory (preferably in a biomedical context). Please contact us to check before you apply.

English language requirements

See page 58.

Fees and funding

For fees see page 58 and for funding information see page 60.

Programme Director Abdulmenem Alashkham
Email abduelmenem.alashkham@ed.ac.uk

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 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).

English language requirements

See page 58.

Fees and funding

For fees see page 58 and for funding information see page 60.

Programme Director Richard Weller
Email richard.weller@ed.ac.uk

Key FT: Full time. PT: Part time.

www.ed.ac.uk/pg/948

Molecular Pathology & Genomic Medicine

PgCert 1 yr PT

Programme description

This programme is aimed primarily at NHS laboratory and clinical staff. It is designed for anyone wishing to expand their understanding of molecular pathology and how it applies to clinical diagnostics. The practice of medicine, especially in the disciplines of pathology and genetics, is increasingly reliant on genomic technology. This programme aims to increase the knowledge and capability of scientific and clinical staff using genetic data in their daily work, allowing you to engage confidently with the scientific concepts of molecular pathology and genomic medicine, and to use your skills to improve patient care. It could also provide a foundation for a clinical academic career.

The University of Edinburgh is at the forefront of genomic technology. To adequately realise the potential of these technologies in a diagnostic setting this programme will cover the scientific underpinning and clinical application of genomic technology to enable clinicians and scientists to provide maximum benefit to patients.

The programme is designed around central themes of scientific foundation, diagnostics, and patient management and treatment. It will provide a structured environment in which to develop cutting-edge knowledge and practical skills in clinical genomics and molecular pathology. Upon graduation you will be able to:

- explain how genetic variation is involved in human disease and the development of cancer;
- critically evaluate molecular pathology diagnostics and select the appropriate diagnostic for disease stratification to determine patient treatment;
- analyse next generation sequence data in the context of germline mutations that cause human genetic disease, and somatic mutations involved in cancer; and
- understand how genetic variation can be a major determinant of patient treatment and apply this knowledge to clinical scenarios in genomic medicine and molecular pathology.

Programme structure

You will study four compulsory courses including an extended project. You will develop critical analysis and communication skills and learn how to perform variant analysis and next generation sequencing data analysis using relevant bioinformatics tools.

Career opportunities

Graduation will be of benefit to a wide range of individuals as this qualification can be used to support FRC Path, Clinical Scientist Development and Genetic Technologist Registration. It can be used as a component of STP and could potentially contribute the first 60 credits towards an MSc. It will also provide the scientific underpinning for genetic counselling.

Entry requirements

A UK 2:1 honours degree, or its international equivalent (www.ed.ac.uk/international/graduate-entry), in a medical, biomedical or nursing area. We may also consider your application if you have a 2:2 degree and at least three years' relevant laboratory experience; please contact us to check before you apply.

English language requirements

See page 58.

Fees and funding

For fees see page 58 and for funding information see page 60.

Programme Director Dr Mary Porteous
Email mary.porteous@ed.ac.uk

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. A high number of students proceed to PhDs at Edinburgh and elsewhere. Other positive next destinations include continued medical studies, teaching and research assistance posts.

Entry requirements

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

English language requirements

See page 58.

Fees and funding

For fees see page 58 and for funding information see page 60.

Programme Director Thomas Becker
Email thomas.becker@ed.ac.uk

“It’s easy to find your place here.”

Artemis Papadaki-Anastasopoulou,
MSc by Research Integrative Neuroscience

www.ed.ac.uk/pg/227

Orthodontics

DClinDent 3 yrs FT

Programme description

This programme aims to equip you with clinical, technical and diagnostic skills as well as the knowledge and understanding of all aspects of orthodontics. It is suitable for those seeking specialist training in the speciality. Designed for dentists wishing to train as specialists in orthodontics, it is approved as part of the training programme by the Specialist Advisory Committee in Orthodontics for UK trainees in possession of a National Training Number awarded by the Postgraduate Dental Dean for Scotland. Students from outside of the UK and Ireland are not normally given a National Training Number.

The programme allows the pursuit of specialist training, attainment of a taught professional doctorate in orthodontics and preparation for the Specialty Membership Examination in Orthodontics (M.Orth) administered by the Royal College of Surgeons of Edinburgh.

Programme structure

The programme consists of 13 compulsory courses. Attendance is required on weekdays for 42 weeks each year. You will spend 20 hours a week treating personal patients under supervision. You are also expected to attend multidisciplinary clinics with maxillofacial surgery, paediatric dentistry, and restorative dentistry on a rotating basis, and at least one new patient clinic per week. The Scotland-wide Orthodontic Programme of lectures, seminars and tutorials takes place every Friday during term time and continues throughout the year.

You will begin with an introductory period of core topics, then spend time in the laboratory familiarising yourself with the facilities and the basics of wire-bending skills, appliance design and appliance construction and mechanics. This is followed by structured terms of theoretical seminars and tutorials. Seminars are run on a Scotland-wide basis with contributions from staff in all four training institutions (Glasgow Dental School, Edinburgh Dental Institute, Dundee Dental School, and Aberdeen Dental School). Teaching takes place in the Dundee and Glasgow Dental Schools, as well as at Edinburgh. This allows students to meet for teaching and for personal and peer interaction.

Career opportunities

Successful completion of this programme will stand you in good stead if you are considering applying to sit the Membership Examination in Orthodontics (M.Orth) administered by the Royal College of Surgeons of Edinburgh. Careers in orthodontics include working in specialist practice or a hospital setting. Academic opportunities can involve teaching and training future specialists, or pure research in areas such as materials science, cell biology, or other sciences, or undertaking a PhD in an area related to orthodontics.

Entry requirements

A primary dental qualification (such as Bachelor of Dental Surgery), or its international equivalent (www.ed.ac.uk/international/graduate-entry), plus a minimum of two years' post-qualification experience. Please check online for other details before applying. 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 58.

Fees and funding

For fees see page 58 and for funding information see page 60.

Programme Director Niall McGuinness

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www.ed.ac.uk/pg/441

Oral Surgery

DClinDent 3 yrs FT

Programme description

This programme aims to provide an understanding of applied clinical sciences, alongside current concepts in oral surgery, with an emphasis on practical experience in dentoalveolar surgery. Academic skills in clinical research and clinical governance will also be taught. It is suitable for graduates in dental surgery, who wish to extend their knowledge and clinical practice, as it provides concise theoretical and practical understanding of oral surgery and its relation to other dental specialities.

The programme allows the pursuit of specialist training, attainment of a taught professional doctorate in oral surgery and preparation for the tri-collegiate (England/Edinburgh/Glasgow) speciality membership examination in MORalSurg.

Programme structure

The programme consists of 15 compulsory courses. Attendance is required on weekdays for 42 weeks each year. Your time will be split approximately 50:50 between clinical and academic activities. Your clinical work, professionalism and communication skills will be regularly assessed by workplace-based assessments (Direct Observations of Procedures) and your academic assessments will include written papers (such as single best answer papers), Objective Structured Clinical Examinations (OSCEs), viva voce and submission of written assignments such as literature and systematic reviews.

The programme follows a consistent pattern with five or six sessions each week spent on the clinical care of patients. The academic programme is structured as two semesters each year, during which you will attend two lectures, seminars or discussion groups each week. The small size of each class facilitates your personal development. Each student undertakes a supervised investigation into a subject area pertinent to the study of oral surgery. You will submit your dissertation (targeted journal manuscript and logbook) at the end of Year 2 - all elements of the courses are required. During Year 3 clinical work is anticipated to be carried out in a mostly autonomous manner. A clinical governance project (such as a clinical audit), systematic review and case-based discussions will also be completed.

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 Bachelor of Dental Surgery), or its international equivalent (www.ed.ac.uk/international/graduate-entry), plus a minimum of two years' post-qualification 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 58.

Fees and funding

For fees see page 58 and for funding information see page 60.

Programme Director Julie Burke

Email anna.atluri@ed.ac.uk

Key FT: Full time. PT: Part time.

www.ed.ac.uk/pg/228

Paediatric Dentistry

DClinDent 3 yrs FT

Programme description

This programme allows you to attain a taught professional doctorate in paediatric dentistry. It aims to 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 in paediatric dentistry.

The programme is appropriate for trainees wishing to present for the Tri-Collegiate Diploma of Membership in Paediatric Dentistry (M Paed Dent) examination, which is administered by the Royal College of Surgeons of Edinburgh.

Programme structure

The programme consists of 14 compulsory courses, which are all assessed and credit bearing. Attendance is required on weekdays for 42 weeks each year.

The programme commences with an initial module of four weeks based in the clinical skills laboratory to allow you to become familiar with the rationale and clinical techniques used in the Department of Paediatric Dentistry at the Edinburgh Dental Institute. During the initial months, there is an introduction to the dental literature and to research methodology. The remainder of the programme follows a consistent pattern where six sessions each week are spent in the clinical care of patients. The remaining four sessions each week are dedicated to the academic and research programmes as well as to personal study.

The clinical component is taught mainly in clinic where you will undertake supervised management of patients. In the first two years, the academic content of the programme will be delivered in the form of lectures and seminars with critical appraisal and discussion of the relevant literature. In the final year, you will undertake research and clinical projects independently with a minimal amount of lecture or seminar time.

Career opportunities

This programme is aimed at qualified dental practitioners who wish to further enhance their evidence-based knowledge and skills in paediatric dentistry to attain a professional doctorate, and at individuals preparing for the tri-collegiate specialty membership examination in paediatric dentistry. The latter facilitates access to the UK General Dental Council Specialist Register in paediatric dentistry, allowing you to practice as a specialist and, with further training, seek appointment as a substantive/honorary NHS consultant.

For overseas students attainment of both a professional doctorate and a college speciality membership normally allows appointment within their own country at the specialist/consultant level.

Entry requirements

A primary dental qualification (such as Bachelor of Dental Surgery), or its international equivalent (www.ed.ac.uk/international/graduate-entry), plus a minimum of two years' post-qualification 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 58.

Fees and funding

For fees see page 58 and for funding information see page 60.

Programme Director Antoniella Busuttil-Naudi

Email anna.atluri@ed.ac.uk

www.ed.ac.uk/pg/229

Prosthodontics

DClinDent 3 yrs FT

Programme description

This programme aims to provide doctoral level educational opportunities which will allow 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 prosthodontics. It builds on fundamental dental knowledge and is focused on advancing theoretical, research and clinical skills. The programme provides a great opportunity for self-motivated, determined and talented individuals to receive training by our team of specialists in prosthodontics, endodontics, periodontics and restorative dentistry, in addition to other specialties and interdisciplinary services. We take pride in our small group teaching using modern pedagogical approaches and support.

The programme allows the pursuit of specialist training, attainment of a taught professional doctorate in prosthodontics and preparation for the specialty membership examination in prosthodontics administered by the Royal College of Surgeons of Edinburgh.

Programme structure

The programme consists of 16 compulsory courses and a dissertation. Attendance is required on weekdays for 42 weeks each year. Over the course of the programme, you will spend approximately 60 per cent of your programme time on patient clinical care. The remaining time will be spent in lectures and seminars and on research projects.

Independent learning is an essential component part of this programme and you will be encouraged to demonstrate autonomy and responsibility for your own development. The syllabus covers the GDC curriculum in prosthodontics and on completion will allow you to sit for entry for the membership in prosthodontics of The Royal College of Surgeons.

Career opportunities

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

Entry requirements

A primary dental qualification (such as Bachelor of Dental Surgery), or its international equivalent (www.ed.ac.uk/international/graduate-entry), plus a minimum of two years' post-qualification 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 58.

Fees and funding

For fees see page 58 and for funding information see page 60.

Programme Director Krish Bhatia

Email pg.dclindent@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 organised 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

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 Statistics; Introduction to Systematic Reviews; Principles of Public Health.

OPTION COURSES PREVIOUSLY OFFERED INCLUDE:

Advanced Epidemiology; Communicable Disease Control and Environmental Health; Developing and Evaluating Complex Public Health Interventions; Further Statistics; Genetic Epidemiology; Global Health Epidemiology; Health in All Policies and Health Impact Assessment; Health Promotion; Investing in Global Health and Development; Public Health Ethics; Qualitative Research in Health; 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), in medicine, nursing, social science, science, biomedicine, or other related discipline.

English language requirements

See page 58.

Fees and funding

For fees see page 58 and for funding information see page 60.

Programme Directors Niall Anderson and Margaret Douglas

Email mph.campus@ed.ac.uk

www.ed.ac.uk/pg/983

Regenerative Medicine & Tissue Repair

MSc by Research 1 yr FT

Programme description

This programme is structured around two laboratory-based research projects. It is designed to prepare you for a research career in academia or industry, whether you have recently completed an undergraduate degree or are a professional who wants to pursue a career in research.

You will be taught key themes and principles in developmental and stem cell biology, regenerative medicine, inflammation research and tissue repair by experienced researchers who work across a range of disciplines. You will become a well-rounded researcher, learning a range of practical biomedical research skills, data interpretation, presentation skills, and critical appraisal skills. Valuable transferable skills will be gained that will be beneficial to a wide range of professions.

The programme is based at the MRC Centre for Regenerative Medicine (CRM) and the new Centre for Tissue Repair (CTR), two purpose-built, state-of-the-art research centres at the heart of the University's biomedical campus at Edinburgh BioQuarter. CRM and CTR together form the Institute of Regeneration and Repair (IRR), bringing together a vibrant community of more than 600 scientists and clinician scientists.

Programme structure

You will undertake two research projects within CRM or CTR or our collaborating centres. Before starting your second research project, you will work with your supervisor to design the project in detail, which you will write up as a research project proposal. This will teach you research project design and planning, develop your academic writing skills and encourage you to take ownership of your research project from the start. You will disseminate your project findings by oral and poster presentations and the results of each research project will be written up in the form of a dissertation.

You will attend lectures and seminars by experts from a variety of research backgrounds pertinent to regenerative medicine and tissue repair. You will learn critical thinking and manuscript reviewing skills through journal clubs and discussion groups and you will gain a wide range of transferable skills, including bioinformatics and public engagement.

Career opportunities

Graduates from our programme will be well-placed to pursue a PhD in biomedicine or take on challenging professional roles in academia or the healthcare industries. The programme delivers bespoke, well-rounded, cross-disciplinary training that will develop skilled researchers uniquely equipped to capitalise on regenerative medicine's potential to advance human health.

Entry requirements

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

English language requirements

See page 58.

Fees and funding

For fees see page 58 and for funding information see page 60.

Programme Director Dr Marieke Hoeve

Programme Administrator Ms Kelly Douglas

Email mcsr.regenmedrepair@ed.ac.uk

www.ed.ac.uk/pg/204

Reproductive Sciences

MSc by Research 1 yr FT

Programme description

This 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 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), in a relevant biological, medicine or veterinary medicine discipline.

English language requirements

See page 58.

Fees and funding

For fees see page 58 and for funding information see page 60.

Programme Director Richard Smith

Email r.smith@ed.ac.uk

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

www.ed.ac.uk/pg/790

Science Communication & Public Engagement

MSc 1 yr FT

Programme description

The fields of science communication and public engagement are 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.

If you are interested in studying science communication and public engagement online, you may be interested in our online learning programme (see page 20).

Programme structure

This 12-month programme is divided into three semesters. You will also complete placements in an organisational setting. Teaching methods contain a blend of seminars involving individual and small-group activities together with practice-based sessions.

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

You will complete two placements in science communication/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 the Royal Botanic Gardens Edinburgh.

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), 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 58.

Fees and funding

For fees see page 58 and for funding information see page 60.

Programme Director Elizabeth Stevenson

Email e.stevenson@ed.ac.uk

Natalie Courtney
PhD Integrative Physiology

My PhD looked to further our knowledge of Spinal Muscular Atrophy (SMA), a motor neuron disease that predominantly affects children. Motor neurons are extremely long cells that connect the spinal cord to muscles and allow our muscles to move. In SMA, motor neurons break down and as a result patients experience progressive paralysis. I investigated where and how this break down begins in order to better understand where we need to be targeting a therapy that can stop this from happening.

Why is your research important?

Research into SMA has been incredibly successful in the past few years and huge breakthroughs have meant that the first therapies are now beginning to become available for patients. However, it is widely accepted that these therapies can still be improved and the only way to do this is by continuing to increase our understanding of what exactly is causing the symptoms of this disease.

Ultimately, I hope that by continuing to increase our knowledge surrounding the breakdown of motor neurons, we can continue to help those affected by this disease and indeed all motor neuron diseases.



Studying for a PhD: 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.

What are the different types of doctoral study and who are they for?

We offer a number of different models for PhD study, including:

- the traditional 3-year research programme;
- 3.5- and 4-year programmes;
- 1+3 programmes, with an introductory masters by research year followed by the PhD project;
- PhDs with integrated study, in which you take credit bearing courses to complement your research work; and
- studentships with an industrial placement.

Many of our programmes have the option of part-time as well as full-time study. Increasingly, our PhD programmes are cohort-based, allowing you increased administrative and peer support to complement the support you receive from your supervisors.

Why to choose our different doctoral study options and what to expect?

For many students, the choice of programme is directed by the research on offer, enabling specialised research training in a specific subject area. Some students may want to start immediately on their PhD project, while others prefer the opportunity to take a 1+3 programme and gain experience of several different projects before deciding which is their preferred PhD.

Where will you study – our institutes and research groups

The College of Medicine & Veterinary Medicine has facilities in several different parts of the city. Most of our research is conducted in modern state-of-the-art research centres or institutes. You will be embedded in the team of your research supervisor(s) but collaboration is encouraged, providing you with the opportunity to work with colleagues in different labs. You should expect to work hard in well-equipped labs under the supervision of committed and supportive senior staff.

How to become a research student with us

The best way to apply to become a PhD student at the University of Edinburgh is through the links to specific programmes on our website or through FindAPhD.com.

If you are interested in specific projects, we recommend you contact the member of staff linked to the project to ask for further details.

Destinations

Completing a PhD opens up a multitude of potential career pathways for our graduates. These include careers in academia, industry, science engagement and communication, and scientific writing.

“My research project has taught me such a huge and diverse set of skills. I feel I will be able to rely on what I’ve learned during my PhD no matter where my career takes me, whether it is in academia or not.”

Bérengère Digard, PhD Psychiatry

Research opportunities

Many 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 24-31), allowing you to study two 20-week research projects in two different lab environments, and MMedSci by Research Medical Sciences (see page 26) which begins with 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.

Potential applicants should get in touch with the contacts listed under the relevant area to informally discuss their proposed project before applying.

Funded PhD programmes

Several of our PhD programmes offer eligible UK/EU candidates full funding for the duration of study. If you are not eligible for funding, you are still welcome to apply to study on these programmes but will be required to self-fund or identify an external source of funding. Our funded PhDs include:

- BBSRC EASTBIO Doctoral Training Partnership (DTP)
- Cancer (Edinburgh Cancer Research Centre)
- Centre for Cardiovascular Science studentships
- EPSRC and MRC Centre for Doctoral Training in Optical Medical Imaging (OPTIMA)
- Medical Research Council (MRC) DTP in Precision Medicine
- MRC Centre for Reproductive Health
- MRC Human Genetics Unit
- Wellcome Trust 4-year PhD in Tissue Repair
- Wellcome Trust 4-year PhD in Translational Neuroscience

For further information, see: edin.ac/mvm-funded-phds

Additional funding opportunities

Many of our other PhDs may also offer funding. Available funding will usually be advertised on the relevant programme page online and on FindaPhD.com. For further funding information, please see page 60.

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), 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/990

Anatomical Sciences (Biomedical Sciences)

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

Research profile

Anatomical sciences research encompasses a broad range of subjects and interests, with a common focus on understanding the underlying structure of the body in health or during disease (mainly human, but sometimes also comparative).

Our research interests and strengths span from high-resolution investigations of the human nervous system through to tissue engineering (building new body parts) and anatomical education research.

Many of these areas engage multidisciplinary approaches, where anatomists work alongside clinicians, data scientists, engineers, chemists and educational theorists.

English language requirements

See page 58.

Fees and funding

For fees see page 58 and for funding information see page 60.

Contact Postgraduate secretary

Email sbms-postgraduate@ed.ac.uk

Key FT: Full time. PT: Part time.

www.eastscotbiodtp.ac.uk

BBSRC EASTBIO Doctoral Training Partnership

PhD 4 yrs FT



Research profile

The EASTBIO programme covers training linked to research skills, core bioscience and transferable skills, as well as the Professional Internships for PhD Students (PIPS) scheme. 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 at four of the UK's leading research intensive universities – Aberdeen, Dundee, Edinburgh and St Andrews.

English language requirements

See page 58.

Fees and funding

For fees see page 58 and for funding information see page 60.

EASTBIO studentships cover fees and stipend for four years. Studentships are subject to Research Council funding eligibility criteria. We have a limited number of studentships for which EU nationals can apply.

Contact Maria Filippakopoulou

Email enquiries@eastscotbiodtp.ac.uk

www.ed.ac.uk/pg/237

Cancer (Edinburgh Cancer Research Centre)

PhD 3-4 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 58.

Fees and funding

For fees see page 58 and for funding information see page 60.

Contact Professor Valerie Brunton

Email student-admin@igmm.ed.ac.uk

www.ed.ac.uk/pg/208

Cardiovascular Science



PhD 3-4 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 postgraduate students 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.

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 58.

Fees and funding

For fees see page 58 and for funding information see page 60.

Contact Matthew Bailey

Email matthew.bailey@ed.ac.uk

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 58.

Fees and funding

For fees see page 58 and for funding information see page 60.

Contact Jurgen Schwarze

Email jurgen.schwarze@ed.ac.uk

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) and the Division of Psychiatry (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 58.

Fees and funding

For fees see page 58 and for funding information see page 60.

Contact Programme administrator

Email ccbs-phd@ed.ac.uk

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.

Our particular interests are:

- assessment; and
- postgraduate learning and teaching.

We also have methodological expertise in qualitative approaches and psychometrics. We enjoy 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 58.

Fees and funding

For fees see page 58 and for funding information see page 60.

Contact Derek Jones

Email derek.jones@ed.ac.uk

Key FT: Full time. PT: Part time.

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.

Entry requirements

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

English language requirements

See page 58.

Fees and funding

For fees see page 58 and for funding information see page 60.

Contact Jackie McGurk

Email epdi@ed.ac.uk

The University of Edinburgh
Medicine & Biomedical Sciences Postgraduate Opportunities 2020

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 research 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, and NHS Education for Scotland.

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);
- 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 58.

Fees and funding

For fees see page 58 and for funding information see page 60.

Programme Director Professor Angus Walls

Tel +44 (0)131 536 3979

Email epdi@ed.ac.uk



“My supervisor has allowed me the freedom and opportunity to explore interesting questions, even if they were not the primary aim of my PhD at the outset.”

Tim Wilkinson, PhD Clinical Brain Sciences

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

A UK 2:1 honours degree, or its international equivalent (www.ed.ac.uk/international/graduate-entry), and a qualification that can be registered with the General Medical Council. You should also have at least one year of experience in scientific work bearing directly on your profession, or be in the practice of medicine or surgery.

You will work in the south east of Scotland, either employed by the University of Edinburgh or by south east of Scotland 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 58.

Fees and funding

For fees see page 58 and for funding information see page 60.

Contact PG Admissions
Email mvmpg@ed.ac.uk

www.ed.ac.uk/pg/838

Genetics & Molecular Medicine (MRC Human Genetics Unit)

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

Part of the Institute of Genetics and Molecular Medicine (IGMM), we research how changes in our DNA impact our lives. We combine the latest computational and experimental technologies to investigate how genomes work to control the function of molecules, cells and tissues in people and populations. For more than 50 years our research has been dedicated to understanding human genetic disease. Today we continue to apply clinical and scientific expertise, harnessing complex data to improve health and the lives of patients and their families. We deliver outstanding research in a vibrant scientific community and friendly research environment that is rich in scientific and social opportunities. More than 30 principal investigators contribute to our cross-disciplinary programmes, which harness strengths in genetics, molecular biology, biochemistry and cell biology, tied to scientific themes of disease mechanisms, biomedical genomics and genome regulation. We have a strong focus on computational biology and state of the art imaging as part of the Edinburgh Super-Resolution Imaging Consortium.

English language requirements

See page 58.

Fees and funding

For fees see page 58 and for funding information see page 60.

Programme Director Professor Nick Gilbert
Email student-admin@igmm.ed.ac.uk

Key FT: Full time. PT: Part time.

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). Our mission is to use genetics and genomics to understand the mechanisms of disease and design novel intervention strategies. In the last Research Excellence Framework, the research outputs of our investigators in the clinical- and hospital-based subjects unit of assessment 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 58.

Fees and funding

For fees see page 58 and for funding information see page 60.

Programme Director Dr Kathy Evans
Email student-admin@igmm.ed.ac.uk

The University of Edinburgh
Medicine & Biomedical Sciences Postgraduate Opportunities 2020

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 from preclinical science to clinical trials, with a focus on clinically-applicable research on the key geriatric syndromes of cognitive impairment, stroke and frailty. Our work also encompasses the broader field of healthy ageing, and we have strong interdisciplinary links, for example with nurses, allied health professionals, and social scientists, as well as with the Centre for Clinical Brain Sciences and Usher Institute.

Researchers at the Royal Infirmary of Edinburgh and Western General Hospital welcome informal enquiries to discuss research opportunities. These include delirium, dementia (particularly in the acute hospital), stroke, exercise for health, Parkinson's Disease, frailty, and the health and wellbeing of care home residents.

We employ a variety of research designs, including systematic reviews, observational studies, diagnostic test accuracy studies, biomarker identification, neuroimaging studies, linkage of healthcare data, qualitative research, and randomised controlled trials.

Research is based at the Royal Infirmary and Western General Hospitals. Contact us to discuss potential applications before applying.

English language requirements

See page 58.

Fees and funding

For fees see page 58 and for funding information see page 60.

Contact Geriatric Medicine
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

English language requirements

See page 58.

Fees and funding

For fees see page 58 and for funding information see page 60.

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 170 research groups and 860 scientists 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 expected 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 in transferable skills is offered by the Institute for Academic Development.

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), in a relevant subject.

English language requirements

See page 58.

Fees and funding

For fees see page 58 and for funding information see page 60.

Programme Director Kim Picozzi

Email kim.picozzi@ed.ac.uk

Key FT: Full time. PT: Part time.

www.ed.ac.uk/pg/399

Infection Medicine

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

Research profile

Infection Medicine (IM) is a multidisciplinary centre consisting of academic and clinical research groups within the University of Edinburgh working across fundamental, clinical and translational aspects of infection medicine: www.ed.ac.uk/infection-medicine

This programme allows you to participate in advanced research training in the diverse research themes undertaken by our IM centre. The centre offers excellent research facilities to support our interdisciplinary approach to infection medicine, including advanced high-throughput systems for molecular, cytological and immunological screening. We are closely linked to clinical research studies via interactions with infection medicine clinicians.

As well as being highly relevant for biomedical science graduates, this programme is particularly attractive to international medical students and practitioners interested in gaining a PhD, within the relatively short time frame of three years, as an important step on the track to becoming a research clinician in the field of infection medicine.

English language requirements

See page 58.

Fees and funding

For fees see page 58 and for funding information see page 60.

Contact Douglas Roy

Email douglas.roy@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

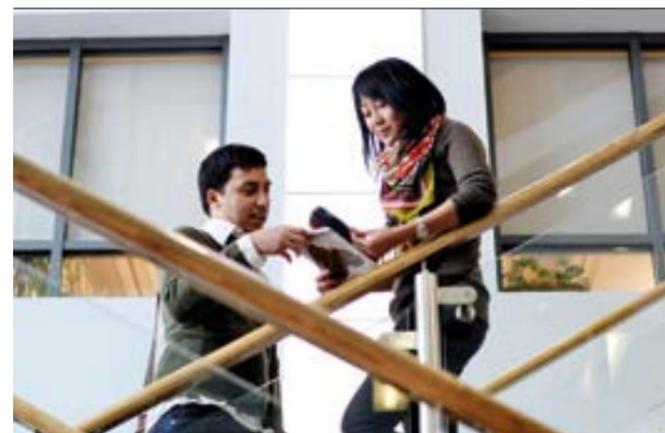
See page 58.

Fees and funding

For fees see page 58 and for funding information see page 60.

Contact Alexandra Moreira

Email alexandra.moreira@ed.ac.uk



Key FT: Full time. PT: Part time.

www.ed.ac.uk/pg/969

Integrative Biomedical Sciences (Based in China)

PhD 4 yrs FT (including taught elements)

This programme is based entirely in China. Please refer online for relevant further information such as fees and living costs and the specific facilities that will be available to you during your studies.

Research profile

Our vision for this programme is predicated on the view that a key reason for failures in translation, from fundamental research to the human subject, is the poor understanding that non-clinical biomedical scientists often have about common human disorders and how basic science can be translated.

This programme aims to train non-clinical students to align cutting-edge experimental animal modelling, cellular, regenerative, computational, genetic technologies and analytical tools with comprehensive knowledge of the translational environment. In so doing, it will equip you with the distinct skills required to bridge the knowledge gap between the design, execution and interpretation of fundamental research and the challenges of translating this knowledge in humans.

ZJU-UoE Institute

The ZJU-UoE Institute is a collaboration in the field of biomedical sciences between Zhejiang University and the University of Edinburgh. Together, we have established an international research institute at the International Campus of Zhejiang University in Haining, China. The Institute builds on the existing strengths of each university and aims to foster collaboration in teaching and research. This programme will be taught in English and will be based entirely in Haining, China.

Career opportunities:

Joining this joint UK/China PhD programme offers you the opportunity to gain research and life experience in the dynamically expanding East Asian biomedical and biotechnology industry as an insider rather than a tourist.

You will have the opportunity to learn the Chinese language and gain entry and insight into China's rich ancient culture and modern, rapidly developing economy and society.

The 21st century's centre of economic gravity is shifting eastwards and many research and academic career opportunities are also shifting in that direction. Combining this with strong links to an established global and European research university offers a unique combination of global career opportunities.

Entry requirements

A UK 2:1 honours degree, or its international equivalent, in biomedical sciences or a related subject. Applicants may hold a masters degree, but this is not a requirement. Applicants will be required to meet additional requirements for visa entry to China.

For further information please contact Zhejiang University.

Contact Jie Zhou
Email zhoujie127@zju.edu.cn

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 58.

Fees and funding

For fees see page 58 and for funding information see page 60.

Contact Paul Skehel
Email sbms-postgraduate@ed.ac.uk

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 58.

Fees and funding

For fees see page 58 and for funding information see page 60.

Contact Sebastien Georges
Email s.georges@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 58.

Fees and funding

For fees see page 58 and for funding information see page 60.

Contact Thomas Becker
Email thomas.becker@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 and PhD Neuroscience

www.optima-cdt.ac.uk

Optical Medical Imaging with Healthcare Innovation & Entrepreneurship



PhD 4 yrs FT

Research profile

OPTIMA is the EPSRC and MRC Centre for optical medical imaging, which brings together world-class research teams in both the clinical and physical sciences in order to address the priority area of Optical Medical Imaging.

OPTIMA is hosted by the University of Edinburgh and the University of Strathclyde. Our focus is to train the next generation of scientific entrepreneurs in healthcare technologies and we place great emphasis on interdisciplinary projects, commercially relevant training and strong ties to the clinical environment.

Our supervisors are of international standing in their respective fields. They have published more than 1,300 peer-reviewed papers, are in receipt of research grant income in excess of £110 million and have supervised more than 300 PhD students. This programme combines:

- excellent research and PhD supervision in world-leading scientific environments; and
- a bespoke programme of business training in healthcare innovation and entrepreneurship.

OPTIMA students can choose from a portfolio of exciting and innovative projects that break down the barriers between physics, chemistry, medicine and engineering. Our students use cutting-edge optical technology to address key clinical questions via medical imaging.

In addition to research in the theme of optical medical imaging, you will embark on a bespoke programme of integrated study in healthcare innovation and entrepreneurship. We want the integrated study portion of your programme to constantly inform and educate your studies throughout your time with us, so the training modules that form the integrated study portion run concurrent with the research over four years. We want you to understand and appreciate the innovative leaps you are making and to be able to capitalise on your discoveries.

English language requirements

See page 58.

Fees and funding

For fees see page 58 and for funding information see page 60.

OPTIMA studentships cover fees and stipend for four years. Studentships are subject to Research Council funding eligibility criteria. We have a limited number of studentships for which EU nationals can apply.

Programme Director Jean O'Donoghue

Email j.odonoghue@ed.ac.uk

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 58.

Fees and funding

For fees see page 58 and for funding information see page 60.

Contact Hamish Simpson

Email hamish.simpson@ed.ac.uk

Key FT: Full time. PT: Part time.

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, inflammation, fibrosis, transplant pathology, immunopathology, osteoarthritis and neuropathological disorders.

The Division of Pathology has academic staff as key members of most of the centres and institutes within the College of Medicine & Veterinary Medicine, reflecting the collaborative and overarching role of pathology in translational medicine. There are also close links to research and development within the hospitals across Edinburgh. The Division also includes the Centre for Comparative Pathology that studies animal models of disease.

The large diagnostic NHS histopathology service based in the Royal Infirmary Edinburgh and Western General Hospital, in which members of the division partake, makes it a favourable environment in which to combine fundamental cell biological and applied clinical studies of human disease.

English language requirements

See page 58.

Fees and funding

For fees see page 58 and for funding information see page 60.

Contact Simon Herrington

Email simon.herrington@ed.ac.uk

The University of Edinburgh
Medicine & Biomedical Sciences Postgraduate Opportunities 2020

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 58.

Fees and funding

For fees see page 58 and for funding information see page 60.

Contact Sebastien Georges

Email s.georges@ed.ac.uk



“I value how much the PhD has increased my confidence and the skills that it has allowed me to gain, which will be incredibly valuable not only in my career but also throughout life.”

Natalie Courtney, PhD Integrative Physiology

www.ed.ac.uk/pg/919

Precision Medicine



PhD 3-4 yrs FT

Programme description

This is a fully funded 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 Glasgow, should be made via the University of Edinburgh website.

English language requirements

See page 58.

Fees and funding

For fees see page 58 and for funding information see page 60.

Contact Doctoral Training Programme Administrative Officer

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 using the latest genomic and neuroimaging approaches (genetic, epigenetic, and multimodal imaging). We take a data science approach, maximising use of large population-based data resources, such as Generation Scotland and UK Biobank, together with health record linkage, to discover aetiological factors and inform stratification approaches. We use this information to guide the development of early detection and novel therapeutic strategies. Our neuroimaging research focuses on how causal factors (genetic and environmental) contribute to conditions through their impact on brain structure and function, and identify when brain structure and function mediate effects on behaviour. We have extensive links with several international consortia including the Psychiatric Genomics Consortia and ENIGMA, and have led some of the first studies predicting schizophrenia and depression, together with some of the largest genome- and phenome-wide analyses studies of depression to date.

English language requirements

See page 58.

Fees and funding

For fees see page 58 and for funding information see page 60.

Contact Andrew McIntosh

Email andrew.mcintosh@ed.ac.uk

Key FT: Full time. PT: Part time.

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) and the new Centre for Tissue Repair (CTR) are world-leading research centres based at the heart of Edinburgh BioQuarter – the University's biomedical campus. CRM and CTR together form the Institute of Regeneration and Repair (IRR), bringing together a dynamic community of more than 600 scientists and clinician scientists studying stem cell biology, regenerative medicine, and matrix and inflammation biology to advance human health.

We offer an integrated and structured postgraduate PhD training programme incorporating taught and research elements to provide high-level training in theoretical and practical aspects of stem cell biology, inflammation research and regenerative medicine. Combined with our research expertise, which ranges from basic developmental biology to clinical trials, we offer one of the strongest interdisciplinary research environments for research in stem cell biology and regenerative medicine currently available in the UK.

Our research is aimed at developing new treatments for major diseases, including cancer, heart disease and 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 across research groups 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.

CRM and CTR are housed in specially designed buildings that provide high-quality research facilities, including centralised cell culture facilities, clinical-grade GMP cell culture facility, SPF animal facility, flow cytometry core facility providing comprehensive multi-parameter flow cytometry; histology service lab, imaging facility and high content screening facility.

English language requirements

See page 58.

Fees and funding

For fees see page 58 and for funding information see page 60.

Contact Kelly Douglas

Email kelly.douglas@ed.ac.uk

The University of Edinburgh
Medicine & Biomedical Sciences Postgraduate Opportunities 2020

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 31) 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. In the Research Excellence Framework (REF) 2014, 91 per cent of the University's research in biological sciences was rated either 4* world leading or 3* internationally excellent in the overall quality profile.

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 58.

Fees and funding

For fees see page 58 and for funding information see page 60.

Contact Dean Ainscough

Email dean.ainscough@ed.ac.uk



“My doctoral programme combines lab work and real-world experience with plenty of taught courses to brush up on any knowledge you might still lack. There’s continuous learning opportunities and I value those greatly.”

Liz Lieverse, PhD Precision Medicine

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 58.

Fees and funding

For fees see page 58 and for funding information see page 60.

Contact Alexandra Moreira

Email alexandra.moreira@ed.ac.uk

www.ed.ac.uk/pg/884

Science Communication/ Public Engagement

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), in any discipline, plus either an MSc in Science Communication or at least one year's experience of work in science communication (paid or voluntary).

English language requirements

See page 58.

Fees and funding

For fees see page 58 and for funding information see page 60.

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 58.

Fees and funding

For fees see page 58 and for funding information see page 60.

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 4 yrs FT



Programme description

This is a prestigious training programme run by the University of Edinburgh and funded by the Wellcome Trust and the College of Medicine and Veterinary Medicine (CMVM). It provides studentships for cutting-edge, cross-disciplinary PhD training that build on the breadth of world-class biomedical research performed within the College. 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. The programme follows a six months/three years/six months format.

Programme structure

The aim of our programme is to train the next generation of scientific leaders in tissue repair. Therefore, during the first six months of the programme, you will undertake two three-month rotation research projects and receive training in a range of practical core research skills. Following these first six months you are able to make an informed choice about the topic of your three-year PhD research project and your PhD supervisors. To ensure a comprehensive training and broadening of your knowledge of tissue repair, you will participate in discussion groups and lab meetings and attend seminars and conferences throughout the programme. During the last six months of the programme you will focus on writing your thesis and preparing for your final examination.

Studentships

Tissue repair studentships are awarded competitively. Applicants should hold at least an upper second class degree in an appropriate subject, or an equivalent qualification in biomedical sciences. The tissue repair studentships fall under the Wellcome Trust 'Four-year PhD Studentships in Science' scheme, rendering medically qualified applicants (for example medics, dentists, vets and clinical psychologists) ineligible.

English language requirements

See page 58.

Fees and funding

For fees see page 58 and for funding information see page 60.

Contact Kelly Douglas, Postgraduate Administrator

Email tissue.repair@ed.ac.uk

www.ed.ac.uk/pg/956

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.

Entry requirements

A UK 2:1 honours degree, or its international equivalent (www.ed.ac.uk/international/graduate-entry). If you have a medical degree you are not eligible to apply unless you are no longer clinically active.

English language requirements

See page 58.

Fees and funding

For fees see page 58 and for funding information see page 60.

Contact Jane Haley

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

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. In clinical medicine, 88 per cent of our research activity was rated 4*, world leading, or 3*, internationally excellent, on the overall quality profile. Clinical medicine was the University's largest REF submission and was ranked in the UK top five by research power (*Research Fortnight* REF 2014). In psychology, psychiatry and neuroscience we were ranked fourth in the UK by research power (*Research Fortnight* REF 2014), 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:

- Lorna Marson, first female president of the British Transplant Society;
- Sarah Tabrizi, who led the fight against Huntington's Disease;
- Clara Mpanga Munthali, first female Malawian graduate of surgical sciences;
- Lorna Williamson, pioneer of blood, stem cell and tissue donation for transplantation;
- Gertrude Herzfeld, Scotland's first female practising surgeon;
- 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;
- 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;
- 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.

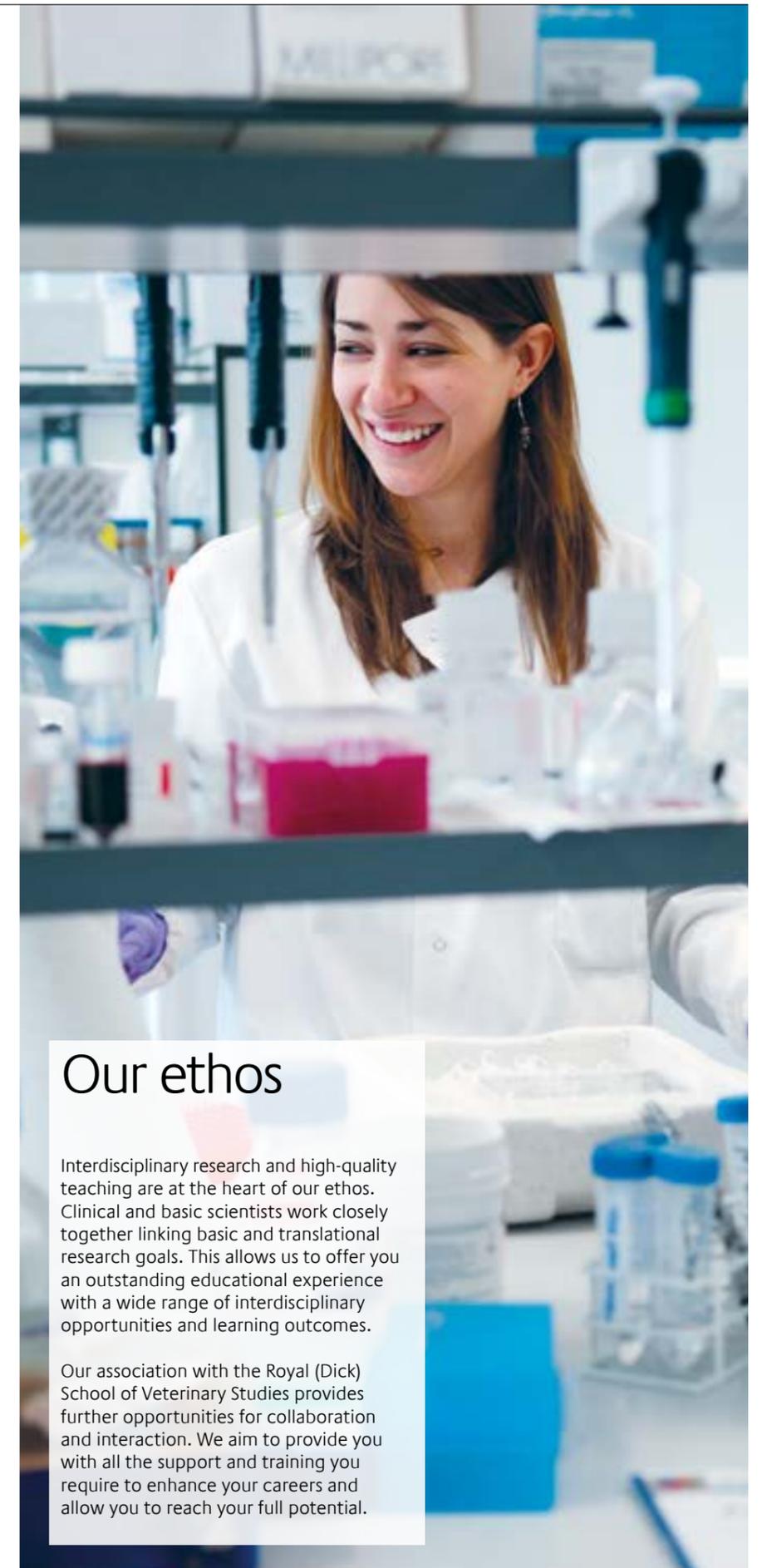
Deaneries

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 1,000 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.

Student support

Studying should be an enjoyable, stimulating and fulfilling experience. The University is committed to supporting you during your studies, and provides a wide range of support services and structures to help you make the most of your time with us.

All our students are offered academic and professional development and study skills support through the Institute for Academic Development (IAD). Our award winning Careers Service is also on hand to help you achieve your professional goals throughout your studies and for up to two years after graduation. For further information on these services, see page 56.

In addition, there is a wealth of support and training available to help you improve your computing, software, and technology skills.

If you experience difficulties at any time during your studies, you can also access the Student Counselling Service and Edinburgh University Students' Association, which provides free and confidential guidance to students through the Advice Place.

Edinburgh Global can offer international students a range of services to help you feel at home.

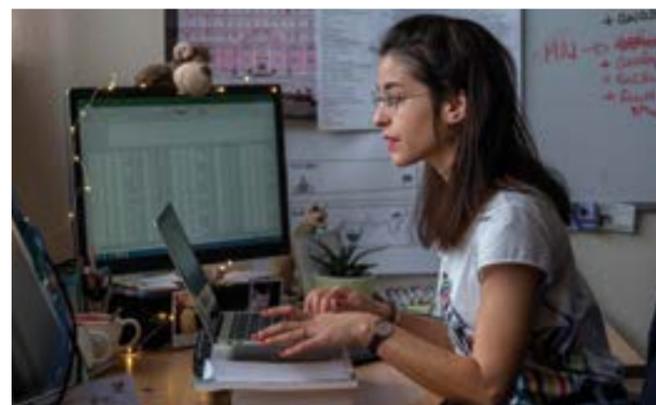
PhD students

For those students studying towards a PhD, immediate support is provided by your team of (at least two) supervisors. This is augmented by a structured thesis committee process involving scheduled meetings with academics who can provide additional advice and support. Students in individual Deaneries will also be supported by their designated Director of Postgraduate Research, while the Director of Postgraduate Student and Early Career Researcher Experience can provide support at a College level.

Masters students

For those students studying a taught masters programme, immediate support will be provided by your programme team who will be able to direct you to the appropriate support services and sources of advice within the wider University.

In addition, you will be assigned a Personal Tutor who will provide academic guidance and help you reflect on your academic progress so that you get the most out of your studies.



“My supervisors are extremely supportive and let me work at my own pace. Even though I am based in a lab, my supervisors are happy for me to work from elsewhere from time to time if I feel like I will work better that way. They really offer me the best balance between guidance, support and freedom to grow.”

Bérengère Digard, PhD Psychiatry

Wellbeing & community

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

We know that informal structures can play an enormous role in the quality of your university experience, so we encourage you to make connections with your tutors and fellow students and take advantage of all opportunities to nurture these networks and link into wider communities of interest.

There is a wide range of seminar series, and team building and development exercises that are made available through the Institute for Academic Development (see page 56).

You should also consider joining professional societies, as they can be beneficial to your postgraduate training and can afford you membership of a wider academic community. In many cases, societies offer travel grants for students, and membership usually entitles you to reduced or waived registration fees for society meetings.

Masters student community

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 your masters degree online. Students studying online are a diverse group from all over the world, united by their academic interests. Using our award-winning, interactive learning environment, our online students and academic tutors maintain a supportive, virtual community that ensures successful online study. Distance is not a barrier to graduation either, as you can attend your graduation ceremony either in person or virtually.

Research student community

If you are a research student, you will join an individual research centre within the College. Within each centre there are social and academic opportunities to integrate with the wider postgraduate community, such as 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.

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 work to an audience 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 our campuses.



Research and teaching environment

Each year we support more than 1,000 research students and 3,000 students undertaking a taught masters either on campus or online.

On-campus study

Most masters programmes involve 12 months of full-time study. If you study part-time, either on-campus or online, it will take you longer to complete the programme. Taught masters generally include coursework with assessments that are chosen to suit the circumstances and practice of the discipline you are studying. You will also undertake independent work, which is normally submitted as a dissertation. We also offer masters by research, which are designed to provide a thorough training in a particular discipline area through original investigation and research. This gives you an excellent 12-month grounding in research and may be used as a stepping stone to a PhD. We offer two different routes for masters by research – a pure research route where you spend 12 months in one lab working on one project, or a taught route that includes seminars and core training alongside research projects.

Online study

When you choose to start an online masters programme at the University of Edinburgh, you are joining a worldwide community of learners, where all of your teaching and interaction with tutors and classmates happens within our online learning platform. This platform hosts all your course materials, including readings and resources, and is accessible 24/7. Any courses that have live lecturers will normally be recorded for you to watch at a time more convenient to you. Flexible participation is a key feature of our online masters programmes. However, you will work through your courses as a class cohort with assignment and project deadlines. Many exercises, such as discussion boards, are asynchronous, enabling you to advance your academic knowledge at a time that suits you. Most of our online programmes are assessed through coursework. You will be able to upload your assignments online and receive your marks and feedback in this format as well. Group collaboration and learning from other professionals is what makes online learning so valuable. Our students tell us this is what they like the most – the opportunity to learn from others and hear how they applied what they have learned within their own working environment, wherever they live in the world.

PhD Study

The 'product' of a PhD programme is the graduate: a skilled, highly-trained individual furnished with the attributes required to prepare them for success in their chosen career. To achieve this, we strive for a learning environment based on a structured training model in world-class laboratories, combining an apprenticeship-style, learning-by-doing approach with complementary training in vocational and translational skills. The research project will be led by your supervisory team, developing your ability to plan and complete research to a high level and to agreed deadlines. You will be expected to produce high quality, reliable and reproducible data that you can analyse and interpret, and then communicate clearly via a number of approaches (written work, poster and oral presentations). It is anticipated that each student's independence will develop throughout their project, giving them the ability and confidence to drive and direct their own work with guidance from their supervisory team. There is an emphasis on timely completion of the project, supported by Deanery and College level staff and guided by a locally-appointed thesis committee. You will be encouraged to integrate with your research group and with postgraduate student societies. Learning is supported by a comprehensive set of vocational and translational skills courses that you are encouraged to take up to support your skills development and employability. You are also encouraged to take up appropriate opportunities to make a focused contribution to teaching and demonstrating.



Tim Wilkinson
PhD Clinical Brain Sciences
Research project: Predicting dementia

"I work with data that is collected during everyday healthcare encounters, such as going to see a GP or getting admitted to hospital, to study dementia. I am working with a national database of GP, hospital admissions and mortality data to develop a way of predicting which patients will go on to get dementia."

Why is your research important?

"At the moment, we do not have treatments that prevent, delay or cure dementia. We now think that, for potential dementia treatments to work, we might need to give them to people years before they develop symptoms. This is difficult, because we don't currently have a way of reliably predicting who will go on to develop dementia in the future."

"For my PhD I'm trying to use 'Big Data' to develop a risk prediction model that would allow us to identify people at risk of dementia years before they develop memory symptoms, so they can be targeted early for treatment."

Facilities

Our postgraduate students have access to state-of-the-art learning and scientific facilities and infrastructure, which we constantly develop and evolve.

Many of our students are located within the Edinburgh BioQuarter, a leading global destination for healthcare delivery, groundbreaking medical research and life sciences innovation and entrepreneurship.

Beyond our impressive academic facilities, we also invest in welfare, support, leisure and community facilities that will help you make the most of your time with us.

The University encourages and supports collaborative and interdisciplinary research. Students completing research projects have benefitted from state-of-the-art laboratories, facilities and techniques, including for:

- Bioinformatics
- Cell culture
- Confocal microscopy
- Core histology services
- Electrophysiology
- Flow cytometry
- Magnetic Resonance Imaging
- Positron Emission Tomography (computed tomography)
- Real time polymerase chain reaction
- Small vessel myography.

Sports and Exercise

Edinburgh is one of the UK's leading sport Universities. Whether you are a recreational gym-user or a performance athlete going for gold, our world-class sports facilities and coaches cater for you. Our 10 gyms include our spin studio, Velo-city, the recently upgraded Katherine Grainger Rowing Gym and a 102-station cardiovascular gym, complete with network fitness.

Library facilities

You will have access to vast and diverse library collections, excellent study spaces, and award-winning library staff. In total, our Main Library, site libraries and library storage facilities hold in excess of 1.8 million printed volumes and provide access to a host of electronic resources, including:

- 10 million journal article downloads;
- 8 million e-book chapter downloads;
- 700,000 e-books;
- 100,000 e-journals; and
- 700 licensed databases.

You can access our electronic resources on or off campus, 24 hours a day.

After graduating from the University, you will still have remote access to some licensed library e-resources enabling you to continue your research and enrich your mind.

Online learning platforms:

A variety of platforms are used to deliver content and enable you to collaborate with other students and academic staff. These platforms will typically include: virtual learning environments (VLEs) such as Moodle or Learn; discussion boards and web forums; real-time video conferencing and collaboration tools; and video streaming services like YouTube or Vimeo.

Lynda.com: online skills development

You will also have free access to Lynda.com while you are a student here. This online skills development service offers an extensive library of more than 250,000 high-quality video tutorials in digital, technology, creative and business skills.



"In my PhD work I am developing cutting-edge analysis tools to study pathological processes causing cognitive decline, dementia, and strokes."

Jose Bernal Moyano, PhD Precision Medicine

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

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: pre-arrival sessions; 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, as well as developing personal and professional skills that can be transferred to your future employment. 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, as well as support for tutoring and demonstrating, and 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 high-quality, tailored support to all 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 will 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

Platform One

Platform One is an online meeting place where members of the University community, past and present, can gather. It aims to provide a supportive environment where students, alumni, staff and volunteers can share knowledge and experiences. Together, we form a single community that meets on Platform One. Join us and find out more about the people and possibilities.

More information: www.ed.ac.uk/platform-one

Backing bright ideas

Edinburgh Innovations, the University's commercialisation service, offers free support to student entrepreneurs including one-to-one business advice and a range of workshops, bootcamps, competitions and networking events. Successful recent clients include David Hunter, inventor of the performance-tracking golf watch Shot Scope; Orfeas Boteas, creator of the Dehumaniser sound effects software used by Hollywood movies and blockbuster video games; and Enactus Edinburgh, a team of student social entrepreneurs who represented the UK in the Enactus World Cup with their local and international projects.

The University of Edinburgh is ranked in the top 10 in the UK and in the top 100 in the world for the employability of our graduates.*

*Times Higher Education Global Employability University Ranking 2018

Research Highlights

The University of Edinburgh is one of the world's top research-intensive universities. We were ranked fourth in the UK for research power, based on the 2014 Research Excellence Framework (*Times Higher Education*, Overall Ranking of Institutions) with 83 per cent of our research activity classified world leading or internationally excellent. If you choose to study with us, you will be working alongside world-renowned researchers and scientists and will play a role in developing scientific understanding.

This is a small selection of our recent research projects:

Air pollution restricts children's lung growth

Children exposed to air pollution have poor lung health, putting them at risk of lifelong breathing disorders, research shows. The study – based on samples in London's Low Emission Zone – showed that lung problems persisted despite small improvements in air quality. This demonstrates the need to adopt more ambitious efforts to reduce pollution in order to protect health.

Surgical infections linked to drug-resistant bugs

People having surgery in low-income countries are more likely to develop an infection than those in wealthier nations, which may be linked to drug-resistant bacteria, research suggests. The findings shed light on a link between antibiotic use and infection and highlight an urgent need to tackle surgical infection in low income nations.

Ovarian cancer drug delays patient relapse

Women with a type of ovarian cancer caused by mutations in their DNA could be helped by a drug that slows the progression of the disease. A breakthrough clinical trial found the treatment can delay relapse of the disease by at least three years, in women with advanced ovarian cancer caused by mutations in the BRCA gene.

DNA may predict potential lifespan

A team of experts from our Usher institute analysed the combined effect of genetic variations that influence lifespan to produce a scoring system that is able to predict a person's longevity. Their findings also revealed fresh insights into diseases and the biological mechanisms involved in ageing.

A cure for the common cold?

A simple sea salt water solution could help to reduce the symptoms of a cold. The homemade remedy was shown to shorten the length of a cold by almost two days and to reduce the need for over-the-counter medicines by a third.

Tools to watch cells eating could aid diagnoses

Scientists in Biomedical Imaging have developed a new imaging technology to visualise what cells eat, which could aid the diagnosis and treatment of diseases such as cancer. Doctors could also use the technology to monitor how patients are responding to treatment, by tracking the molecules that are eaten by healthy and diseased cells. This is an important advance that could improve understanding of the metabolism of diseased cells and one day help develop better therapies.

Read more about these and other projects here: edin.ac/ResearchNews

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

General requirements

Usually a UK 2:1 honours undergraduate degree, or its international equivalent (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

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

You must demonstrate a level of English language competency at a level that will enable you to succeed in your studies, regardless of your nationality or country of residence. We accept the following English language qualifications at the grades specified:

Biomedical Sciences (Life Sciences), Public Health (including online learning), Science Communication & Public Engagement (including online learning), and most 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 Academic: 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).

Dental Sedation & Anxiety Management (online learning) and Endodontology

- IELTS Academic: total 7.0 (at least 6.5 in each module).
- TOEFL-iBT: total 92 (at least 20 in each module).
- PTE Academic: total 61 (at least 56 in each of the Communicative Skills sections).
- CAE and CPE: total 176 (at least 169 in each module).
- Trinity ISE: ISE II (with distinctions 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 Academic: 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 Academic: 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
- Your English language qualification must be no more than three and a half years old at the beginning of your programme, unless you are using IELTS, TOEFL, PTE Academic or Trinity ISE, in which case it must be no more than two years old.

- 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), or at a university in a non-majority English-speaking country which has specifically been approved by the University of Edinburgh's Admissions Qualifications Group. A list of approved universities is published on our website. If you are not a national of a majority English speaking country, then your degree must be no more than three and a half years old at the beginning of your programme of study.

- We do not require you to take an English language test before you apply.

Abbreviations: IELTS – International English Language Testing System; TOEFL-iBT – Test of English as a Foreign Language Internet-Based Test; PTE – Pearson Test of English; CPE – Certificate of Proficiency in English; CAE – Certificate in Advanced English; Trinity ISE – Integrated Skills in English.

www.ed.ac.uk/english-requirements/pg

Tuition fees

The following table provides an overview of indicative fee levels for programmes commencing in 2020.

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.

Asylum seeker tuition fee status and scholarship

Information for applicants seeking asylum from within the United Kingdom, who wish to commence a programme of study at the University in 2020, is available online. This includes our tuition fee rates and scholarship opportunities: www.ed.ac.uk/student-funding/asylum

Tuition fees for EU students

EU students enrolling in the 2020/21 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 Scotland (SAAS).

For UK/EU students

	Annual fee
All taught programmes	£11,300-£13,000
Except:	
Regenerative Medicine: Clinical & Industrial Delivery FT	£13,000
MClinDent/DCLinDent	£21,900
All MPhil 2-years FT / PhD 3-years FT	£4,327*
All MPhil 4-years PT / PhD 6-years PT	£2,164*
All MSc by Research/MMedSci by Research 1-year FT	£8,750
All MSc by Research/MMedSci by Research 2-years PT	£4,375
DDS/MD Med 2-years FT	£4,327*
DDS/MD Med 3-years PT	£2,885*
DDS/MD Med 4-years PT	£2,164*

Online Learning

	Annual fee
5 credits	£460-£545
60 credits	£4,870-£6,550
Online learning options are individually priced. Please check the degree finder for information on specific programme fees.	

For international students

	Annual fee
All taught programmes	£22,850-£28,150
Except:	
Regenerative Medicine: Clinical & Industrial Delivery FT	£28,150
MClinDent/DCLinDent	£49,050
All MPhil 2-years FT / PhD 3-years FT	£23,500
Except:	
Science Communication PhD	£20,100
Dentistry, Molecular & Clinical Medicine (Clinical), Orthopaedic & Trauma Medicine, Surgery	£38,350
All MSc by Research/MMedSci by Research 1-year FT	£28,150
MD Med	£23,500
DDS	£38,350

* Figure shown is the 2019/20 fee level

All other fees quoted are indicative of 2020/21 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

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

Awards are offered by the College of Medicine & Veterinary Medicine, the University of Edinburgh, the Scottish, UK and international governments and many funding bodies.

The majority of our 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).

University of Edinburgh Alumni Scholarships

We offer a 10 per cent scholarship towards postgraduate fees to all alumni who graduated from the University as an undergraduate, and to all students who spent at least one semester studying at the University on a visiting programme: www.ed.ac.uk/student-funding/alumni-scholarships

Key

- Taught masters programmes
- Masters by Research programmes
- Research programmes

Scholarships at the University of Edinburgh

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
- Medical Research Council (MRC) DTP in Precision Medicine
- BBSRC EASTBIO Doctoral Training Partnership (DTP)

For further information on funded PhDs see: edin.ac/mvm-funded-phds

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

International Masters Scholarships for MSc Science Communication & Public Engagement (online) ●

We offer five masters scholarships of £2,000 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

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

The fund also supports the offer of a limited number of places on short courses at Edinburgh Medical School: www.ed.ac.uk/medicine-vet-medicine/staff-and-current-students/scholarships

Principal's Career Development PhD Scholarships ●

These provide a valuable opportunity for PhD students to undertake training and skills development and offer opportunities in areas such as teaching, public engagement, entrepreneurship, data science, and research. Each award covers the UK tuition fee and a stipend: www.ed.ac.uk/student-funding/development

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, research costs and a stipend: www.edinburghneuroscience.ed.ac.uk/funding 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 2020/21 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

The University also offers a number of scholarships in partnership with the following overseas government agencies:

Mexico

Banco de Mexico and the Banco de Mexico's FIDERH trust (FIDERH): ●●● www.fiderh.org.mx

Fundacion Mexicana para la Educacion, la Tecnologia y la Ciencia (FUNED): ●●● www.funedx.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

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: erasmusplus.org.uk/master-loan

Postgraduate Doctoral Loans England ●

Student Finance England offers postgraduate loans for doctoral study, payable to eligible students and divided equally across each year of the doctoral programme: www.gov.uk/doctoral-loan

Postgraduate Doctoral Loans Wales ●

Student Finance Wales offers loans for postgraduate doctoral study, payable to eligible students, divided equally across each year of the doctoral programme: www.studentfinancewales.co.uk/postgraduate-students/postgraduate-doctoral-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

Postgraduate Loans (PGL) Northern Ireland ●●

Student Finance Northern Ireland offers eligible students a tuition fee loan for taught and research programmes, at certificate-, diploma-, and masters-level, which will be paid directly to the University: www.studentfinanceneni.co.uk

Postgraduate Loans (SAAS) Scotland and EU ●●

The Student Awards Agency Scotland offers eligible students tuition fee loans for taught and research programmes at diploma and masters level, 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

Postgraduate Master's Finance Wales ●●

Student Finance Wales offers eligible students postgraduate finance for taught and research masters programmes: 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

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

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

Commonwealth Scholarships ●●●

Scholarships available to students who are resident in any Commonwealth country, other than the UK: www.dfid.gov.uk/cscuk

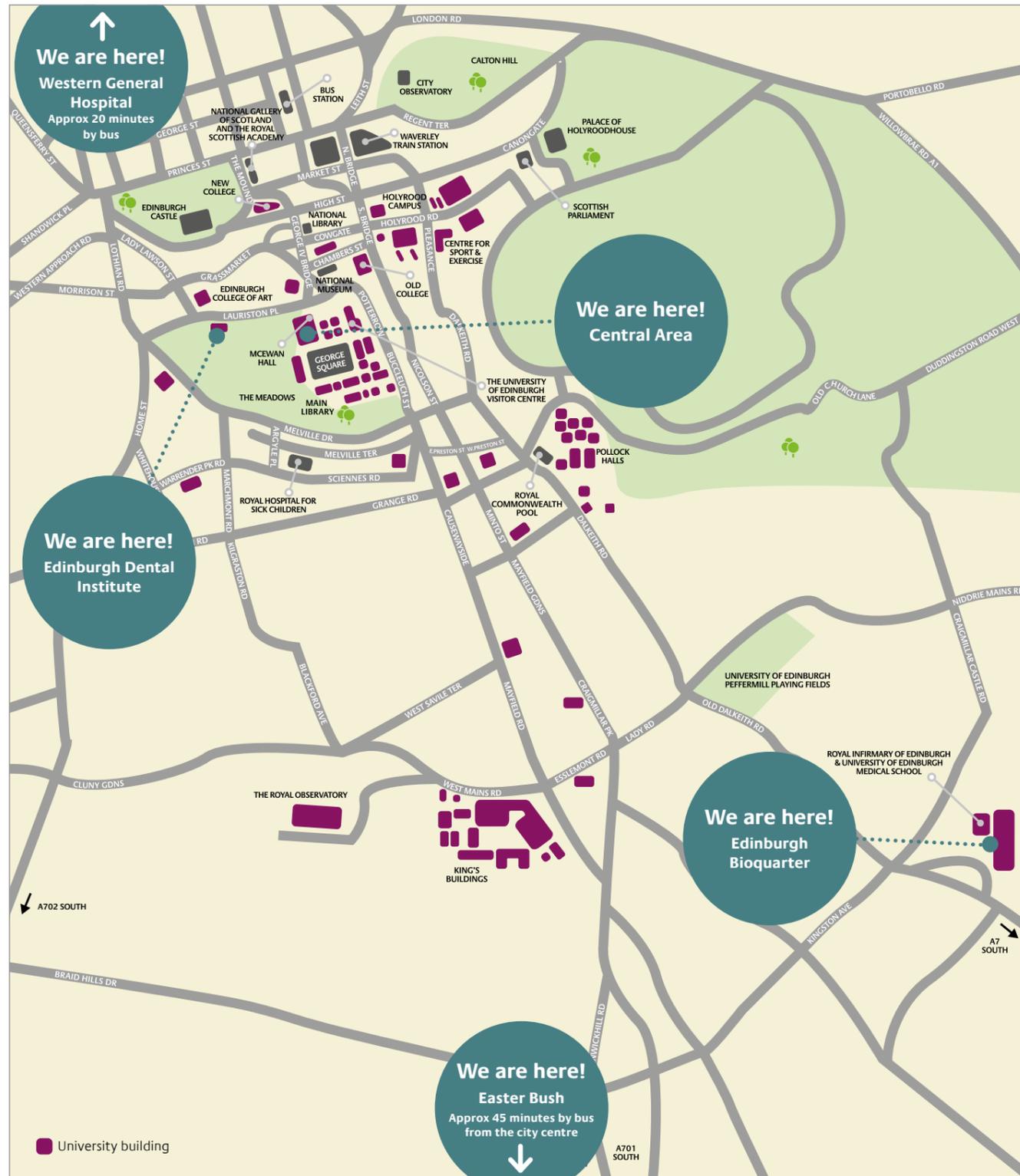
Marshall Scholarships (USA) ●●●

Scholarships available to outstanding US students wishing to study at any UK university for at least two years: www.marshallscholarship.org

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.

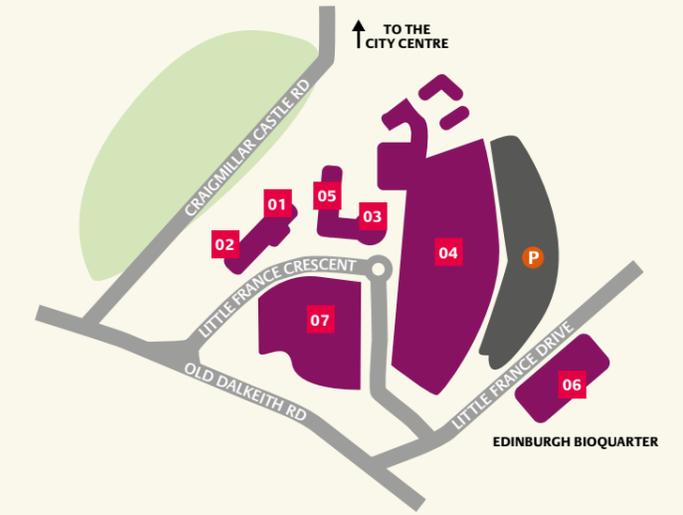
Detailed maps can be found at: www.ed.ac.uk/maps



Edinburgh Bioquarter

- 01 Queen's Medical Research Institute
- 02 Edinburgh Imaging Facility QMRI
- 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

P Parking

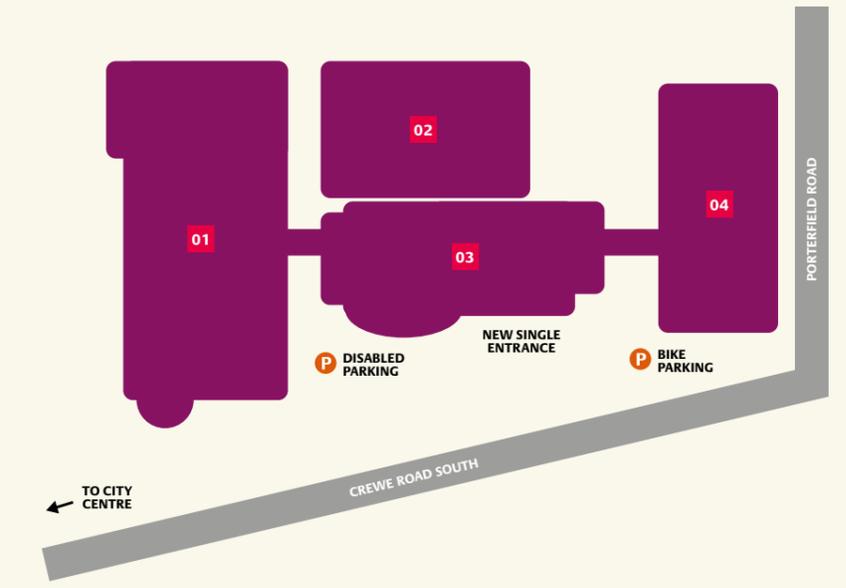


We are here!

Western General

- 01 Edinburgh Cancer Research Centre (Institute of Genetics & Molecular Medicine (IGMM) South)
- 02 MRC Human Genetics Unit (IGMM Central & West)
- 03 New Institute of Genetics & Molecular Medicine (IGMM) Building (IGMM East)
- 04 Centre for Genomic & Experimental Medicine (IGMM North)

P Parking



We are here!

Get in touch

Contact us

Tel +44 (0)131 242 6307/6460/6478/6617

Email mvmpeg@ed.ac.uk

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-life

Join in the conversation on Twitter.

twitter.com/thedickvet

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 13 November 2019. For more information, visit: 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/events

International:

www.ed.ac.uk/international/our-visits-overseas

Chat online

We offer all postgraduate students online information sessions. To find out more and see when the next session will be:

www.ed.ac.uk/postgraduate/online-events

For international students, Edinburgh Global also offers regular online chats. To find out more:

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)

This publication is available online at www.ed.ac.uk/postgraduate and can be made available in alternative formats on request. Please contact communications.office@ed.ac.uk or call +44 (0)131 650 2252.

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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

On 23 June 2016 the UK electorate voted in a national referendum to leave the European Union. EU postgraduate taught students enrolling in the 2020/21 academic year will be admitted as Scottish/EU fee status students and eligible for the same tuition support as Scottish domiciled students for the duration of their studies. This will still be the case in the event of a Brexit no deal scenario. For the latest information for students and applicants from the EU, please visit our website: www.ed.ac.uk/news/eu

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