Medicine & Biomedical Sciences
Postgraduate Opportunities 2019

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
Influencing the world since 1583

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

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

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

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

Enhancing your career
We are committed to embedding employability in your University experience and have 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 18th in the 2019 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.†

£373m
In 2016/17 we won £373 million in competitive research grants.

24
We are associated with 24 Nobel Prize winners.

13TH
We’re ranked 13th in the world’s most international universities.‡ Since 2010, we have taught students from 82 per cent of the world’s countries.

* Times Higher Education, Overall Ranking of Institutions
† Times Higher Education, Global Employability University Ranking 2017
‡ Times Higher Education: The World’s Most International Universities 2017
Online learning 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.

Edinburgh Medical School has been offering innovative postgraduate online programmes to medical and health-related professionals since 2005. Today there are 28 online programmes to choose from and our portfolio is expanding all the time. In addition to MSc and ChM programmes, we also offer Postgraduate Diploma (PgDip) and Postgraduate Certificate (PgCert) programmes and Postgraduate Professional Development (PgProfDev, see page 23). With more than 1,000 online students in our School, we take the delivery of teaching online as seriously as we do on campus. Every programme has an experienced programme director as well as administrative support, and each student has a personal tutor, so you will be fully supported in all aspects of your student experience.

The online, part-time format is particularly suited to students already in full or part-time employment or with other professional or personal commitments, and allows a flexible learning environment that can be adapted to suit individual needs. You can choose to study at a time and in a place that suits you, saving relocation costs. Some of our online learning programmes also have the option to be taken as intermittent study, allowing you to complete a masters programme in up to six years.

Many of our programmes have been designed to meet health challenges in low and middle income countries. The low bandwidth required, the adaptive and inclusive nature of the programmes and our extensive alumni community mean that students from all countries are able to learn and share with each other in a truly global network.

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

Short course options

Some of our online learning programmes offer you the opportunity to take individual short courses. These are ideal if you are looking to develop your knowledge in specific areas.

Short courses allow you to tailor your studies to suit your individual interests and requirements (such as for CME/CPD). They can also enhance your career opportunities in an increasingly competitive marketplace.

New programme

We are currently developing an MSc/PgDip/PgCert Critical Care programme, which we plan to launch for a September 2019 intake (subject to validation). Because this programme is still in development, please check online for the most up-to-date information: www.ed.ac.uk/postgraduate/designdegrees

Programme description

This programme is an ideal 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:

- a recorded lecture to introduce the topic;
- interactive content (video/animated/narrative);
- a set of resource links to course reading – library and research;
- a discussion board facilitated by a tutor; and
- a set of formative questions to test your knowledge and understanding - these do not contribute to your final mark.

Certificate courses previously offered include:

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

Diploma courses previously offered include:

- Advanced Human Anatomy 1;
- Advanced Human Anatomy 2;
- Imaging: Histology; 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 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 fields such as medicine, veterinary medicine, radiology, radiography, radiotheraphy, nursing, biological sciences, biomedical sciences, pharmacology, chemistry, physics, engineering, image analysis, image processing, computer science, informatics, neurology, neuosurgery, 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 Alethea Kelsey
Tel +44 (0)131 650 2924
Email alethea.kelsey@ed.ac.uk

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 the 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:

- a recorded lecture to introduce the topic;
- interactive content (video/animated/narrative);
- a set of resource links to course reading – library and research;
- a discussion board facilitated by a tutor; and
- a set of formative questions to test your knowledge and understanding - these do not contribute to your final mark.

Certificate courses previously offered include:

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

Diploma courses previously offered include:

- Advanced Human Anatomy 1;
- Advanced Human Anatomy 2;
- Imaging: Histology; 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 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 fields such as medicine, veterinary medicine, radiology, radiography, radiotheraphy, nursing, biological sciences, biomedical sciences, pharmacology, chemistry, physics, engineering, image analysis, image processing, computer science, informatics, neurology, neuosurgery, 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/964

Applied Medical Image Analysis*

PgCert up to 2 yrs PT

*Subject to approval

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 of 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 employment and engagement 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, radiotheraphy, nursing, biological sciences, biomedical sciences, pharmacology, chemistry, physics, engineering, image analysis, image processing, computer science, informatics, neurology, neuosurgery, 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.
Online learning programmes
to check before you apply. You may be admitted to certificate level only in the first instance.
We may also consider your application if your degree is in an unrelated field.

Entry requirements
You will choose six option courses from the following:
- Evolution and biodiversity
- Conservation Genetics
- Environmental Law
- Ex-Situ Wildlife Conservation
- Connecting Environment and Society
- Conservation Psychology

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

Diploma courses previously offered include:
- Principles of Teaching and Learning
- Assessment, Examinations and Standard Setting
- The Curriculum

Diploma courses previously offered include:
- Principles of Teaching and Learning
- Assessment, Examinations and Standard Setting
- The Curriculum

Master's courses previously offered include:
- 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 help you work in environmental, intergovernmental, national and international agencies, as well as lobby groups, NGOs and other research groups.

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 bioscience topic. We may also consider your application if your degree is in an unrelated discipline but you have relevant work experience; please contact us to check before you apply. You may be admitted to certificate level only in the first instance.

English language requirements
See page 58.

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

Programme Director
Sharon Ogle
Email web.online@ed.ac.uk

Programme
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 Health Academy (www.ed.ac.uk/global-academies).

Programme structure
The programme is delivered using innovative online learning. It involves a mixed teaching approach that includes independent study and reflection as well as online discussion and group project work. More information: www.mvb.medicine.ed.ac.uk/courseinfo.html

Year 1: Certificate courses previously offered include:
- Online learning programmes to check before you apply. You may be admitted to certificate level only in the first instance.
- We may also consider your application if your degree is in an unrelated field.

Year 2: Diploma courses previously offered include:
- Principles of Teaching and Learning
- Assessment, Examinations and Standard Setting
- The Curriculum

Year 3: Masters courses previously offered include:
- 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 help you work in environmental, intergovernmental, national and international agencies, as well as lobby groups, NGOs and other research groups.

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 bioscience topic. We may also consider your application if your degree is in an unrelated discipline but you have relevant work experience; please contact us to check before you apply. You may be admitted to certificate level only in the first instance.

English language requirements
See page 58.

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

Programme Director
Sharon Ogle
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Year 1: Certificate courses previously offered include:
- Online learning programmes to check before you apply. You may be admitted to certificate level only in the first instance.
- We may also consider your application if your degree is in an unrelated field.

Year 2: Diploma courses previously offered include:
- Principles of Teaching and Learning
- Assessment, Examinations and Standard Setting
- The Curriculum

Year 3: Masters courses previously offered include:
- 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 help you work in environmental, intergovernmental, national and international agencies, as well as lobby groups, NGOs and other research groups.

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 bioscience topic. We may also consider your application if your degree is in an unrelated discipline but you have relevant work experience; please contact us to check before you apply. You may be admitted to certificate level only in the first instance.

English language requirements
See page 58.

Fees and funding
For fees see page 58 and for funding information see page 60.
Clinical Ophthalmology  2–4 yrs PT

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

Programme structure
The programme runs on a semester basis and involves a minimum of 10-15 hours study each week in a flexible, modular manner. Compulsory courses in each area of clinical ophthalmology are aligned to the curricula of the FRCSed and FCOphth. Knowledge and understanding will be assessed with a formal MCQ exam designed to replicate the trainees’ upcoming exit exams.

YEAR 1 COURSES PREVIOUSLY OFFERED INCLUDE:
- Ophthalmology 1; Core Ophthalmology: Applied Basic Sciences; Examination and Surgical Strategies; Clinical Decision Making, Therapeutics, Avoiding and Managing Complications; Diagnostics and Technologies in Clinical Practice; Acute Ophthalmology, Trauma and Advanced Surgical Techniques.

YEAR 2 COURSES PREVIOUSLY OFFERED INCLUDE:
- Ophthalmology 2; Core Academic Activity (Reflective ePortfolio); Examination (MCQ and EM); Specialist Academic Activity (Research Project).

Career opportunities
The ChM programme is designed to follow the FRCSed and FCOphth curricula and prepare the advanced trainee for their exit professional examinations. The award of ChM will highlight the candidate's commitment to continual professional development and will ensure a competitive edge when applying for consultant positions.

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

UK applicants should have completed initial specialist training (ST 1/2) or core training (CT 1/2) and early intermediate training (ST 3), and will normally be starting their intermediate training (ST 4). Applicants from outside the UK, and applicants who are not in a recognised training programme, must demonstrate that the course is directly relevant to their ophthalmic surgery training.

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

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

English language requirements
See page 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

Key PT: Full time. PT: Part time.
Dental Sedation & Anxiety Management

PgCert 12 mths PT

Programme description
This programme is 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 resources. The course is taught and run by dental staff experienced in dental sedation, with some participation by guest lecturers.

Career opportunities
Completion of this programme will allow a dental practitioner to fulfil the training requirements set as out by the Intercollegiate Advisory Committee in Dental Sedation (IACDS) 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/internationalgraduate 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 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.

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 pgdentalsed@ed.ac.uk

Family Medicine

MF/M/PgDip/PgCert 3 yrs, 2 yrs or 1 yr PT

Programme description
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 bringing their 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
- Principles of Family Medicine
- Principles into Practice

YEAR 2 DIPLOMA COURSES PREVIOUSLY OFFERED INCLUDE:
- Family Medicine Approach to Child and Maternal Health
- Family Medicine Approach to NCDs
- Family Medicine Approach to People with Complex Needs

YEAR 2 MASTERS COURSES PREVIOUSLY OFFERED INCLUDE:
- Research Methods
- A Family Medicine Project of approximately 10,000 words

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 equivalent) recognised by the General Medical Council. You should also have acquired MRCP (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 Directors
David Weller, Robin Ramsay, and Liz Grant
Programme Administrator
Michelle Hart
Email family.medicine@ed.ac.uk

“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
Programme description

Infectious diseases remain influential upon the global burden of mortality and morbidity with endemic neglected diseases affecting more than one billion people. There is increasing awareness of newly emerged diseases and the impact of globalisation, and concern surrounding antimicrobial resistance.

This programme brings together a diverse community of online learners with transdisciplinary opportunities to identify, explore and address regional and global health challenges related to these infectious diseases.

This is a professional postgraduate qualification for biomedical, medical, public health, and veterinary personnel with an interest in global health and infectious diseases.

This programme is affiliated with the University’s Global Health Academy (see page 57): www.ed.ac.uk/global-health

Programme structure

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

Certificate courses previously offered include:

- Global Health Fundamentals and Understanding Infectious Diseases
- 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 Diseases, Water and Sanitation, Zoonotic Disease.

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 Diseases, Water and Sanitation, Zoonotic Disease.

Masters courses previously offered include:

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

Career opportunities

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 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

Liz Grant

Email liz.grant@ed.ac.uk
Global Health Studies

PgCert 1 yr PT; PgProfDev up to 2 yrs PT

Programme description
This programme is designed to enable those with a personal, academic or professional interest in global health to study a variety of related subjects and to equip them and fellow students in a global community. The programme is structured to equip students with a comprehensive knowledge base in various aspects of global health. The emphasis is on the interdisciplinary nature of the subject and this is reflected by the wide range of courses it is possible to study within the programme – including animal health, biodiversity, global health, infectious and non-communicable diseases, sanitation and water issues, conservation and global citizenship, forensic medicine and science. Some courses benefit from a scientific background, although this is not a requirement.

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

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

Postgraduate professional development
The courses offer the right 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 one-year 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 your 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/internationalgraduate-entry). We may also consider your application if you have relevant work experience; please contact us to check before you apply. You may be admitted to certificate level only in the first instance.

English language requirements
See page 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

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, imaging and digital imaging (including courses in cardiothoracic, oncology and inflammation). 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 Technical Skills & Practicalities & Safety. You will also complete two courses from the following options: Applications in Disease Research; Clinical Applications; Digital Image Processing; Image Interpretation & Evaluation.

DIPLOMA COURSES PREVIOUSLY OFFERED INCLUDE:
You will complete the compulsory courses Statistics & Study Design. You will also complete four courses from the following options: Biomechanics for Imaging; Palaeo-anatomy; Micro-anatomy; Digital Image Processing; Cardiovascular Imaging; Oncologic Imaging; Imaging in Inflammation.

MASTERS COURSES PREVIOUSLY OFFERED INCLUDE:
You will complete practical work (a project) and assessed activities.

Career opportunities
Clinical graduates will benefit from the programme with improved clinical imaging management skills and will also be better able to advise companies and businesses that develop tools and techniques for their specialists, where imaging is required. For pre-clinically focused students, an imaging skill set expands academic possibilities and is more likely to assist with translational research as well as academic priming. For pre-clinical students, the 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 your 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/internationalgraduate-entry). We may also consider your application if you have relevant work experience; please contact us to check before you apply. You may be admitted to certificate level only in the first instance.

English language requirements
See page 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

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, investigations, treatment 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, genetic 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; Medical Ethics; Clinical Decision-Making; Clinical Skills (Communication, Examination and Medical Procedures); Introductory Skills (IT Skills, Research/Literature Evaluation and Writing Skills).

OPTION COURSES PREVIOUSLY OFFERED INCLUDE:
Cardiology; Dermatology; Neurology; Clinical Genetics; Translational Medicine; Clinical Education and Teaching; Medical Ethics; Palliative Care; Evidence-Based Medicine 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 Immunology.

MASTERS COURSES PREVIOUSLY OFFERED INCLUDE:
You will complete a dissertation, of between 10,000-15,000 words, on a topic of your choice.

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

Entry requirements
A UK 2:1 honours degree, or its international equivalent (www.ed.ac.uk/internationalgraduate-entry), in veterinary medicine, agricultural science or a relevant 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 Contact Krislyn McWilliams-Biles
Email internal.medicine@ed.ac.uk

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 can affect livestock productivity and exacerbate poverty. The diseases that can be transmitted between animals and people also threaten the health of livestock keepers, their families and the towns and countries developing regions farmers and animal health workers are often ill-equipped to deal with this risk. This programme draws together expertise from across the University to develop teaching and research to tackle these issues. This programme is affiliated with the University’s Global Health Academy:

Programme structure
You may study to postgraduate certificate, postgraduate 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 Biological and Evolutionary Disease; Pathogenic and Host Determinants of Disease; Pathogen Strategies for Transmission and Survival; Host Responses to Infection; Applied Veterinary Epidemiology; Advanced Pathogen Immunology; Advanced Pathogen Molecular Biology; Advanced Pathogen Genomics and Bioinformatics; Practical Approaches to Disease Investigation; Environmental and Clinical Epidemiology.

MASTERS COURSES PREVIOUSLY OFFERED INCLUDE:
You will complete a dissertation, of between 10,000-15,000 words, on a topic of your choice.

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

Entry requirements
A UK 2:1 honours degree, or its international equivalent (www.ed.ac.uk/internationalgraduate-entry), in veterinary medicine, agricultural science or a relevant 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 Evan Macleod
Email lab.onlines@ed.ac.uk
Neuroimaging for Research
MSC up to 6 yrs PT, PgDip up to 4 yrs PT, PgCert up to 2 yrs PT, PgDipDev up to 2 yrs PT

Programme description
Neuroimaging research techniques are now in demand from expanding and innovative research that require expert understanding of brain functions. 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; Practicabilities 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. 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 honour degree, or its international equivalent (www.ed.ac.uk/international/graduate-entry). In medicine, veterinary medicine, radiology, radiography, radiotheraphy, nursing, biological sciences, biomedical sciences, pharmacology, chemistry, physics, engineering, image analysis, image processing, computer science, informatics, neuroscience, neurological and 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 your 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

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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 pediatrics 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:
You will study a wide range of specialties in Paediatric Medicine.

YEAR 2: DIPLOMA COURSES PREVIOUSLY OFFERED INCLUDE:
Medical Emergencies: Surgical Emergencies & Trauma/Anesthesia & Sedation; Paediatric Critical Care Medicine; Additional Topics in Paediatric Critical Care Medicine.

YEAR 3: MASTERS COURSES PREVIOUSLY OFFERED INCLUDE:
Management issues in Paediatric Emergency Medicine. You will also undertake a written reflective element from a number of suggested topics.

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

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

English language requirements
See page 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

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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 taking a management lead in this field. The programme will draw on teaching materials from a global network of experts.

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. We 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 Safe Practice.

MASTERS
Career 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 honour degree, or its international equivalent (www.ed.ac.uk/international/graduate-entry). In medicine, veterinary medicine, radiology, radiography, radiotheraphy, nursing, biological sciences, biomedical sciences, pharmacology, chemistry, physics, engineering, image analysis, image processing, computer science, informatics, neuroscience, neurological and 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 your 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 6241
Email: chm.info@ed.ac.uk
**PET-MR Principles & Applications**

**Programme description**

The PET-MR Principles & Applications programme is designed to provide in-depth knowledge and practical skills in PET-MR imaging, suitable for radiographers and other imaging operators. It focuses on hybrid imaging principles and techniques, building on existing knowledge in PET and MR imaging.

**Entry requirements**

- A UK 2.1 degree, or an international equivalent (www.ed.ac.uk/international/graduate-entry).

**Fees and funding**

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

**Programme Director**

Professor Jeyran Tavakkol
Email jeyran.tavakkol@ed.ac.uk

**Key courses**

- PET-MR Principles
- PET-MR and MR Imaging
- PET-MR Physics and Engineering

**Certification**

- Short course option

**PET-MR Principles & Applications**

**Programme description**

The PET-MR Principles & Applications programme aims to provide in-depth knowledge of PET-MR imaging, suitable for radiographers and other imaging operators. It focuses on hybrid imaging principles and techniques, building on existing knowledge in PET and MR imaging.

**Entry requirements**

- A UK 2.1 degree, or an international equivalent (www.ed.ac.uk/international/graduate-entry).

**Fees and funding**

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

**Programme Director**

Professor Jeyran Tavakkol
Email jeyran.tavakkol@ed.ac.uk

**Key courses**

- PET-MR Principles
- PET-MR and MR Imaging
- PET-MR Physics and Engineering

**Certification**

- Short course option
Science Communication & Public Engagement

Programme description
The fields of science communication and public engagement are currently enjoying unprecedented growth. This is being driven by a greater need to demonstrate the impact of publicly funded research, the need for science to be valued and a desire for a stronger evidence base for policy decisions. Many career opportunities are emerging at the interface between academic research and various stakeholders. You will experience a variety of science communication and public engagement methodologies and you will engage with current science communication challenges. In the process, you will develop your ability to think critically and to effectively reflect on your practice. The learning from one course is transferable to other courses, thus ensuring interconnection across the programme.

This programme is affiliated with the University’s Global Academies: www.ed.ac.uk/global-academies

Please see page 29 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 science communication and policy and knowledge brokers, in addition to the traditional science consultancies for democratic decision-making. Examples of specific skills and attributes necessary to pursue roles at the interface between 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.

Programme Director
Deputy Programme Director
Email
 telephone
 website

Science Communication & Public Engagement

Stem Cells & Translational Neurology

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 also 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-leaders 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
To address the need for effective science communication and public engagement, the programme provides specific training through an interactive online learning medium allowing you to study in your own time. You may take 5 credits worth of PgDipDev courses which are recognized in your 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 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 an international equivalent (www.ed.ac.uk/internationalgraduate-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
Deputy Programme Director
Email
 telephone
 website

Surgical Sciences

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-assessed local examination centre.

YEAR 1 COURSES PREVIOUSLY OFFERED INCLUDE:
Cardiovascular Surgical; 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 this study would receive credit or mirror ‘in-the-workplace’ experiences and some of this study would receive credit or mirror ‘in-the-workplace’ activities. The online learning nature of this programme is perfect for doctors working unsociable shift patterns.

Key PT: Full time; PT: Part-time.

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

Programme Director
Email
 telephone
 website

Trauma & Orthopaedics

Programme description
This programme is offered by the Royal College of Surgeons of Edinburgh and the University, and leads to the award of Master of Surgery (ChM). Based on the UK Intercollegiate Surgical Curriculum, the ChM in Trauma & Orthopaedics provides the opportunity for you to select advanced courses relevant to your declared specialty, and supports learning for the Fellowship of the Royal College of Surgeons (FRCS) examinations. The programme is designed to run alongside clinical training and combined work and study programme.

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

YEAR 1
Compulsory courses cover the core elements of the subsessions of the orthopaedic syllabus. These are taught and assessed using a clinical problems-based approach, supported by systems-based review of the course material. You will be expected to critically analyse reference material and, where appropriate, relate it to your own work.

YEAR 2
You will explore research and teaching methodology and develop your ability to analyse published evidence and explore interactive and written clinical communication skills. You will complete an academic masters dissertation project in your chosen subspecialty area of work. We actively encourage you to seek publication of your work after completion of the programme.

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

Entry requirements
You must hold a medical degree (MBChB or equivalent) recognised by the General Medical Council and would normally acquire 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
 telephone
 website
Urology

Online learning programmes

Programme description
This programme is offered by the Royal College of Surgeons in Edinburgh and the University, and leads to the award of Master of Surgery (ChM). It runs alongside clinical training and complements 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 to four 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 EMQ) 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; Core Urology; Andrology; Stone Disease; Reconstructive Urology; Paediatric Urology; Transplant Nephrology.

YEAR 2
Oncology 2; 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.

Programme Director
Grant Stewart
Email chm.info@ed.ac.uk

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

www.ed.ac.uk/pg/792

Vascular & Endovascular Surgery

Online learning programmes

Programme description
This programme is offered by the Royal College of Surgeons in Edinburgh and the University, and leads to the award of Master of Surgery (ChM). It runs alongside clinical training and complements 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 to four 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 EMQ) 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; Endovascular Practice; Open Surgery & Infection in Vascular Practice; Vascular Imaging; Aneurysms; Chronic Limb Ischaemia & Complications of Diabetes; Renal & Mesenteric Vascular Disorders; Cerebrovascular Disorders; Acute Limb Ischaemia & Vascular Trauma; Upper Limb & Non-atherosomatous Lower Limb Disorders; Venous & Lymphatic Disorders.

YEAR 2
Clinical 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.

Programme Director
Andy Tamburara
Email chm.info@ed.ac.uk

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

www.ed.ac.uk/pg/808

See also...
You may also be interested in our on-campus programmes [see pages 24-29] or the online learning programmes offered elsewhere in the University, particularly One Health, offered by the Royal (Dick) School of Veterinary Studies, or Next Generation Drug Discovery, offered by the School of Biological Sciences.

www.ed.ac.uk/studying/prospectus-request
On-campus taught masters and programmes 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.

Our master of science (MSc) programmes take 12 months to complete and are internationally recognised as providing a world-class, research-led teaching and training experience. They are taught through lectures, tutorials and seminars, as well as practical and lab work, and conclude with a dissertation.

A masters by research (MSc by Research) is also a 12-month programme. We offer two different types. The MSc by Research programmes listed in this section enable you to study two 20-week research projects, giving you experience of two different lab environments. They also contain a significant taught element, such as seminars and core skills training. The exception to this is the medical sciences programme (see page 26) which begins with a month of teaching before you spend the rest of the year in one lab. Alternatively, we offer pure research MSc by Research programmes (see pages 32-49) where you will spend 12 months in one lab working on one project.

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

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

www.ed.ac.uk/pg/244

Biomedical Sciences (Life Sciences)

MSc by Research 1 yr FT

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

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

PROJECT 1 (SEPTEMBER TO FEBRUARY)
Courses previously offered include: Cardiovascular Biology, Cell Communication, Genomics & Biomedical Pathways; Infectious Diseases; Mechanisms of Inflammatory Disease; Reproductive Science; Stem Cells, Tissue Injury and Regenerative Medicine.

PROJECT 2 (MARCH TO AUGUST)
Courses previously offered include: Biological Architecture, Biomedical Imaging, Cancer Biology, Genes & Disease, Genomic Technologies, Molecular & Cellular Mechanism of Inflammation, Reproductive Science 2.

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

Research proposal
Students submit a research proposal based on the work performed for Project 2. This takes the form of a grant application, as would be proposed 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 honour 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
Andrew Hall
Email a.hall@ed.ac.uk

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 specific 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 honour degree, or its international equivalent (www.ed.ac.uk/international/graduate-entry), in a relevant biological discipline, or a medical/verteinrity 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/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.

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

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

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

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

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

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

Entry requirements
A UK 2:1 honour 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
Abduelmnenem Aladkhah
Email abduelmnenem.aladkhah@ed.ac.uk

“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
Molecular Pathology & Genomic Medicine

Programme description
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 genetics 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 genome-wide association and somatic mutations involved in cancer.
- 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 bioinformatic tools.

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 medical 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/internationalgraduate-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

Neuroscience (Integrative Neuroscience)

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

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/internationalgraduate-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
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 organisms.

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 to 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

Science Communication & Public Engagement

MSc 1 yr FT

Programme description
The field of science communication and public engagement with science is currently enjoying unprecedented growth. This is driven by a greater need to demonstrate the impact of publicly-funded research, the need for research to be valued and a desire for a stronger evidence base for policy. Many career opportunities are emerging at the interface between scientific research and 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 other local organisations in 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

Transfusion, Transplantation & Tissue Banking

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

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

The programme covers the following areas:
- fundamentals of transfusion science;
- quality and GMP;
- blood donation processing and testing;
- immunology and molecular biology of transfusion;
- clinical blood banking;
- transplantation and tissue banking;
- information technology and donors;
- biopharmaceutical transfusion and clinical trials;
- management and communication;
- governance/ethical/risks of transfusion; and
- research skills.

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

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

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

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

English language requirements
See page 58.

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

Programme Director Diane Anderson
Email diane.anderson3@nhs.net

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

www.ed.ac.uk/studying/prospectus-request
A world-class research experience

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

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

Research centres
British Heart Foundation Centre for Cardiovascular Science: www.cvs.ed.ac.uk
MRC Centre for Inflammation Research: www.cir.ed.ac.uk
MRC Centre for Reproductive Health: www.crh.ed.ac.uk
Clinical Research Imaging Centre: www.cric.ed.ac.uk
MRC Centre for Regenerative Medicine: www.crm.ed.ac.uk
Centre for Medical Informatics (Usher Institute): www.ed.ac.uk/usher

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

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

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

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

The MRC Institute for Genetics & Molecular Medicine: www.igmm.ac.uk

Research centres
Edinburgh Cancer Research UK Centre: www.ed.ac.uk/cancer-centre
Centre for Genomic and Experimental Medicine: www.cgem.ed.ac.uk
The MRC Human Genetics Unit: www.ed.ac.uk/mrc-human-genetics-unit

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

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

The Centre for Discovery Brain Sciences conducts research into fundamental physiological mechanisms and pathways, from single genes to complex behaviour, relevant to normal human function and how disruption of these mechanisms leads to disease. Research groups are located in the Central Area and at Little France.

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

Research centres
Centre for Clinical Brain Sciences: www.cCBS.ed.ac.uk
Centre for Discovery Brain Sciences: www.ed.ac.uk/discovery-brain-sciences
Centre for Population Health Sciences (Usher Institute): www.ed.ac.uk/usher
Centre for Global Health Research (Usher Institute): www.ed.ac.uk/usher
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 which you will spend 12 months in one lab working on one project. This gives you an excellent grounding in research that can serve as a stepping stone to a PhD. Alternatively we offer MSc by Research programmes that contain a significant taught element (see pages 22-29), allowing you to study two-10 week research projects in two different lab environments, and MMedSci by Research Medical Sciences (see page 24) 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 those programmes but will be required to self-fund or identify an external source of funding. Our funded PhDs include:

- BBSC EASTBIO Doctoral Training Partnership
- 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
- Wellcome Trust 4-year PhD in Tissue Repair
- Wellcome Trust 4-year PhD in Translational Neuroscience

For further information, see: http://edin.ac/mmm-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.eastscotbiodtp.ac.uk

BBSC 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 (aging); bioenergy and industrial biotechnology; food security; and world-class bioscience. We offer an excellent programme of collaborative training for PhD students in Aberdeen, Dundee, Edinburgh and St Andrews, at four of the UK’s leading research intensive universities.

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/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 postgraduates the opportunity to work within internationally-leading research programmes addressing fundamental development and control of the cardiovascular system and the origins and consequences of cardiovascular disease. In 2008, the Centre was designated one of four British Heart Foundation Centres of Research Excellence (CoRE) and was awarded £7.6 million over a six-year period. Major research efforts are directed at the metabolic syndrome and risk factors for cardiovascular disease, mechanisms of atheromatous plaque formation and disruption, pre-natal 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

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 Pauline McDonald
Email student.admin@jgjm.ed.ac.uk

Key FT: Full time. PT: Part time.

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;
- epidemiologically-based observational disease cohort studies;
- clinical trials—first in 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
GRACE provides clinicians with a powerful yet user-friendly means of identifying higher-risk patients at the time of their presentation.

See more online: www.ed.ac.uk/research/impact

**Case study: Edinburgh’s research with impact**

**The GRACE risk score**

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

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

**Project background**

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

**Project results**

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

**Research opportunities**

www.ed.ac.uk/pg/861

**Clinical Education**

**Research profile**

This PhD builds on our world-renowned expertise in the field of clinical education, and our well-established and respected Masters in Clinical Education programme. It is ideal for those wishing to further their career in academic clinical or medical education, who already have experience of delivering education for healthcare professionals, whether students, doctors, nurses, allied health professionals, or dental or veterinary practitioners. It will appeal to those seeking leadership positions or to undertake independent high-quality research in clinical education.

Some of our current research focuses on:

- assessment and feedback in medical education;
- immersive simulation and debriefing;
- the development of communication skills;
- e-learning; and
- clinical skills (retention and transfer into practice).

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

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www.ed.ac.uk/pg/211

**Dentistry (PhD)**

**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 McCurk
Email epdi@ed.ac.uk

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www.ed.ac.uk/pg/889

**Doctor of Dental Surgery**

**Research opportunities**

www.ed.ac.uk/pg/211

**Dentistry (PhD)**

**Research profile**

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.

Contact Professor Angus Walls
Email epdi@ed.ac.uk

Programme Director Professor Angus Walls
Tel +44 (0)131 536 3979
Email epdi@ed.ac.uk

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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 MBBCh 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.

Contact
Paul Gladwell
Email paul.gladwell@ed.ac.uk

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

Endodontology

DClinDent 3 yrs FT

Programme description
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 mons-specialty at the Royal College of Surgeons.

Programme structure
This programme is designed to provide 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.

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 year's post-qualification experience.

English language requirements
See page 58.

Contact
Anna Alluri
Email epd@ed.ac.uk

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

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, 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.

Contact
Professor Nick Gilbert
Email nick.gilbert@ed.ac.uk

www.ed.ac.uk/pg/839

Genomics & Experimental Medicine

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

Research profile
The Centre for Genomics and Experimental Medicine (CGEM) is part of the MRC/University of Edinburgh Institute of Genetics and Molecular Medicine (IGMM). Our mission is to use genetics and genomics to understand the mechanisms of disease and design novel intervention strategies. In the last Research Assessment Exercise, the research outputs of CGEM investigators were returned in the clinical and hospital based subjects unit of assessment and received the highest possible rating. We undertake detailed studies of populations, families and individuals to study a wide range of health-related conditions. We use state-of-the-art genetic, epigenetic, genomic, statistical, bioinformatic, biological and molecular approaches in model systems and clinical studies for systematic investigation of disease aetiology. With this knowledge, we aim to improve disease prediction, prevention and prognosis. Our translational agenda encompasses the development of new medicines and genetically-informed use of existing medicines in clinical trials.

English language requirements
See page 58.

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

Contact
Programme administrator
Email geriatricmedicine@ed.ac.uk

Geriatric Medicine

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

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

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

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

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

English language requirements
See page 58.

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

Contact
Programme administrator
Email geriatricmedicine@ed.ac.uk

www.ed.ac.uk/pg/214
Global Health

Research opportunities

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;
• the pathogenesis of viral diseases (animal and human, including herpes and HIV).

Programme description

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 Liz Grant
Email liz.grant@ed.ac.uk

Infectious Diseases

MSc by Research 1 yr FT

Programme description

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

Previous students have undertaken projects in the following areas:

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

Programme structure

The learning process centres upon a one-year research project. In addition, you will be 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 Piccozzi
Email kim.piccozzi@ed.ac.uk

Inflammation

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

Programme description

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 inflammatory stimuli; finding new approaches to promote beneficial resolution 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 Karen Colvin
Email karen.colvin@ed.ac.uk

Integrative Physiology

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

Programme description

This programme offers research opportunities in the Centre for Developmental Brain Sciences (CDBS), an organisation that brings together more than 150 principal investigators and more than 760 active researchers across the spectrum of brain science, from the molecular to the systems level. CDBS investigators exploit rapid advances in the enabling technologies available from genomics, proteomics, imaging, informatics, and in-vivo analysis to understand the function of brain 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 Postgraduate Secretary
Email sbms-postgraduate@ed.ac.uk

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 Fair Institute in Bioquarter Building 5. 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 biology. 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/medicine-vet-medicine/postgraduate
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 genetics, proteomics, imaging, informatics, biochemistry, and other core technologies 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). CDBS aims to underpin the core technology of the centre 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 requirements. We provide and support the training that you need to deliver your research in the most efficient and best way possible.

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;
- a bespoke programme of business training in healthcare innovation and entrepreneurship.

Research opportunities

OPTIMA is funded 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 interdisciplinarity, project management, and training to strengthen research skills.

The programme consists of 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 (OSCE), 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 programmes are structured as two semesters each year, during which you will attend 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 programme are assessed. During Year 3 clinical work is anticipated to be carried out on a rotating basis, 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 techniques. This is followed by structured theoretical seminars and practical skills sessions that 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 all the Membership Examination in Orthodontics (MOrth) administered by the Royal College of Surgeons of Edinburgh. Successful graduates in dental surgery, who wish to extend their knowledge and clinical expertise, will be taught the knowledge of dental care, orthodontics and related orthodontics.

Programme Director

Jean O'Donoghue
Email j.odonoghue@ed.ac.uk

PhD 4 yrs FT

Contact Postgraduate Secretary
Email sbbms-postgraduate@ed.ac.uk

Fees and funding

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

Paediatric Dentistry

DClinDent 3 yrs FT

Programme description
This programme aims to provide doctoral level educational opportunities that enable you to develop, consolidate and enhance your range of academic and clinical competencies, to enable independent and reflective practice at the standard of a specialist in paediatric dentistry. It allows the pursuit of specialist training, attainment of a taught professional doctorate in paediatric dentistry and preparation for the tri-collegiate specialty membership examination in paediatric dentistry administered by the Royal College of Surgeons of Edinburgh.

Programme structure
The programme consists of 14 compulsory courses. Attendance is required on weekdays for 42 weeks each year. It 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 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 on the clinical care of patients. The remaining four sessions each week are dedicated to the academic and research programmes as well as personal study.

The clinical component is taught mainly in clinic where you will undertake supervised management of patients. In Years 1 and 2, the academic content of the programme will be delivered through lectures and seminars with critical appraisal and discussion of the relevant literature. In your final year, the taught component of the course will be restricted to minimal use of lecture/seminar format for the systematic review and clinical governance project.

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/gpa), 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: epdi@ed.ac.uk

Pathology

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

Research profile
Members of the Division of Pathology have major research interests in human cancer biology, cell and tissue injury, immunopathology, osteoarthritis and neuropathological disorders. Academic staff are key members of most of the research centres within the College of Medicine & Veterinary Medicine, reflecting the collaborative and overarching role of pathology in translational medicine. There are also close links to research and development within adjacent hospitals across Edinburgh.

The Division includes the Edinburgh Breakthrough Breast Cancer Research Unit, Scottish Academic Health Sciences Tissue Governance Unit, MRC Sudden Death Brain Bank and CJD Brain bank. Within Edinburgh, there are strong links with clinical colleagues and scientists across the University. The large diagnostic histopathology service that the division undertakes makes it a favourable environment in which to combine fundamental cell biological and applied clinical studies of human disease. There are excellent facilities for molecular and cell biology, immunology, image analysis and cell culture.

English language requirements
See page 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
Pathway Medicine

**Research profile**

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

The DPM has two main research themes:

- **a)** pathway biology of infection and immunity involving the study of host-pathogen interaction in immune cells and the modelling of molecular pathways that control immune cell function in health and disease; and

- **b)** biochip medicine in systemic response to disease involving the development of advanced biochip techniques and platforms for translating genomic and pathway research into clinical healthcare.

**English language requirements**

See page 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

Population Health Sciences

**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

Precision Medicine

**Programme description**

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

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

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

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

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

**English language requirements**

See page 58.

**Fees and funding**

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

**Contact**

Programme Administrative Officer
Tel: +44 (0)31 651 7891
Email: precision.medicine@ed.ac.uk

Prosthodontics

**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: epdi@ed.ac.uk
Regenerative Medicine

Research profile

The MRC Centre for Regenerative Medicine (CRM) is a world-leading research centre based at the University. Together we study stem cells, disease and tissue repair to advance human health. Our research is aimed at developing new treatments for major diseases including cancer, heart disease 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 within the Centre, we adopt a flexible approach to these themes with each principal investigator having one or more secondary affiliations. Two themes focus on fundamental research: pluripotency and IPS, and lineage and cell specification. The other three aim to translate fundamental research discoveries into clinical programmes relevant to brain, blood and liver diseases and to tissue repair.

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

- State-of-the-art centralised cell culture facility for isolation and culture of primary and established cell lines, including embryonic and induced pluripotent stem cells.
- Clinical grade CMP cell culture facility.
- SPF animal facility.
- Transgenic mouse carrying derivation and provision of mouse embryonic stem cells, blastocyst injection, morula aggregation and production of defined genetic alterations.
- Ultrasound micro-injection equipment.
- Flow cytometry service consisting of cell sorters, MoFlo, FACS Jazz and FACS Avia II that are operated by facility staff and analysts, the LSR Fortessa and FACS Calibur that can be operated by users after completing mandatory training.
- Histology.
- Imaging facility including standard compound microscopy, confocal, STED super resolution, high-content and time-lapse imaging.
- Quantitative real-time PCR.
- Fluidigm Biomark and CellPrep for single cell transcriptomics.

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

Reproductive Health

Research profile

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

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

The MSc (see page 28) forms an ideal insight 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
Research opportunities

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

See page 58.

Contact

Karen Colvin
Email karen.colvin@ed.ac.uk

www.ed.ac.uk/pg/223

www.ed.ac.uk/pg/884

Respiratory Medicine

Science Communication/ Public Engagement

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 close 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

See page 58.

Supervisor

Elizabeth Stevenson
Tel +44 (0)131 650 3258
Email e.stevenson@ed.ac.uk

Contact

Postgraduate Administrator
Email tissue.repair@ed.ac.uk

www.ed.ac.uk/pg/835

Surgery

Programme description

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

See page 58.

Contact

Damian Mole
Email damian.mole@ed.ac.uk

www.ed.ac.uk/pg/849

Tissue Repair

Programme description

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

We aim to train the next generation of scientific leaders in tissue repair.

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

This four-year training programme follows a six-months – three years – six months format. During the first six months you will undertake two three-month research projects in affiliated research centres, receiving training in a range of practical core skills, attending seminars and contributing to discussion groups and lab meetings. Following the first six-month period you will choose the topic and the primary and secondary PhD supervisor for your three-year PhD research project.

You will participate in discussion groups and lab meetings and attend seminars by internal and invited speakers at the affiliated research centres and further afield. This exposure to the wide range of research associated with tissue repair ensures a comprehensive training. Finally, in the last six-month period you will focus on writing your thesis and prepare for your final examination.

English language requirements

See page 58.

Fees and funding

See page 58.

Contact

Postgraduate Administrator
Email tissue.repair@ed.ac.uk

www.ed.ac.uk/pg/956

Translational Neuroscience

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 a 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/deterioration. 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 promotes 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

See page 58.

Contact

Jane Halley
Tel +44 (0)131 650 3522
Email vtedhp@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
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 llary, 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 Beaton, 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.

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**Our ethos**

Interdisciplinary research and high-quality teaching are at the heart of our ethos. Clinical and basic scientists work closely together linking basic and translational research goals. This allows us to offer you an outstanding educational experience with a wide range of interdisciplinary opportunities and learning outcomes. Our association with the Royal (Dick) School of Veterinary Studies provides further opportunities for collaboration and interaction. We aim to provide you with all the support and training you require to enhance your careers and allow you to reach your full potential.
Graduate School

Our Graduate School provides an interdisciplinary, college-wide support network for all postgraduate students and staff. It is home to more than 3,400 postgraduate students studying within Edinburgh Medical School or the Royal (Dick) School of Veterinary Studies.

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

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

Graduate School Hubs

Whether you’re studying online or in Edinburgh, your programme will belong to one of our Graduate School Hubs. Your Hub will provide you with an accessible point of personal contact – in person, online or by phone – from application to graduation. Postgraduate students are supported by a team of administrators within their Graduate School Hub. These teams are the first point of contact for our postgraduate students and staff, and support both on-campus and online learning students. As well as supporting all aspects of programme administration, these staff are front-line student support officers for any queries or issues you may have, with the knowledge and experience to direct you to the appropriate resource for additional support.

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

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

Community

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

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

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

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

There is a wide range of seminar series, and team building and development exercises are available through the Institute for Academic Development. You are encouraged to interact with the wider University postgraduate community through cross-School networks such as Edinburgh Neuroscience, Edinburgh Infectious Diseases and the Edinburgh Immunology Group, and by participating in the University-wide Three Minute Thesis competition.

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

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

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

More information:

Old Kirk Postgraduate Centre

The University is currently investing £7m in the development of a dedicated central hub, where postgraduate research students from all disciplines can meet, collaborate and study. In addition to areas for formal and informal study, the centre will include bookable spaces for events, conferences and group work. The centre is part of a £200m investment intended to dramatically improve facilities for students. It is due to open in early 2020.
Research and teaching environment

Each year we support the training of more than 1,000 research students and 2,400 students undertaking taught programmes on campus or online.

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

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

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

• Centre for Cardiovascular Science
• MRC Centre for Inflammation Research
• MRC Human Genetics Unit.

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

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

• Centre for Clinical Brain Sciences
• Centre for Discovery Brain Sciences
• The Euan MacDonald Centre for Motor Neurone Disease
• The Muir Maxwell Epilepsy Centre
• The Patrick Wild Centre.

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

The Institute hosts three research centres and one unit:

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

Networking opportunities
Our cross-campus networks bring researchers together:

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

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

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

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

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

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

Our facilities include:

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

Facilities

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

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

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

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

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

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

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

Further information is available online: www.ed.ac.uk/iad/postgraduates

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, plus support for tutoring and demonstrative, and research public engagement and communication.

Careers Service
Our Careers Service plays an essential part in your wider student experience at the University, offering a range of tailored careers and personal development guidance and support. We support you to recognise the wealth of possibilities ahead, while at university and after graduation, helping you explore new avenues, tap into your talents and build your employability with confidence and enthusiasm. We provide specialist support for postgraduate students. From exploring career options to making decisions, from CV writing to interview practice, from Employ.ed internships to graduate posts and from careers fairs to postgraduate and 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

Back ing bright ideas
LAUNCH.ed is the University’s award-winning programme for student entrepreneurs. Each year, LAUNCH.ed works with hundreds of students to assess their ideas and develop their business skills and helps many start their businesses. We have helped Edinburgh students and alumni launch almost 100 new businesses in the last three years, ranging from language tuition to robotics companies.

More information: www.LAUNCH.ed.ac.uk

Eurolife postgraduate student exchange visits

The College of Medicine & Veterinary Medicine is a member of the Eurolife consortium, which comprises eight European, research-led, life sciences universities. Established in 1999, Eurolife promotes transnational interactions via research collaboration, postgraduate programmes and student mobility programmes. Eurolife offers you the opportunity to undertake learning and/or research in another leading European university, while gaining new contacts, skills and experience.

The eight Eurolife universities are:

- The University of Edinburgh, College of Medicine & Veterinary Medicine
- Karolinska Institute, Sweden
- School of Medicine, Trinity College, Dublin, Ireland
- Leiden University Medical Center, Netherlands
- University Medical Center, Göttingen, Germany
- University of Barcelona, Spain
- Medical University of Innsbruck, Austria
- University of Strasbourg, France

*This institution does not offer tuition in the English language.

Typically, Eurolife student exchange visits are for up to six months, to undertake masters-level course modules and/or a research project. Normally each institution will accept exchange visits by up to two students from each partner institution per academic year.

Eurolife student exchange visits do not incur tuition fees. Students intending to undertake an exchange visit should contact the College Research Officer by email, mvmresearch@ed.ac.uk, at least seven months in advance of a proposed visit start date, to discuss submitting an application.

More information: www.ed.ac.uk/medicine-vet-medicine/eurolife

Global Health Academy

The University’s Global Health Academy draws on a wide range of expertise, crossing all boundaries in global health. Because global health is not one single discipline, but multiple disciplines cutting across traditional institutional functions and boundaries, the University has brought together world-class research drawn from numerous academic areas in order to deliver a greater impact.

For example, public health and clinical researchers work closely with our leading anthropologists, biomedical scientists, epidemiologists, geographers, health economists, management specialists, mathematicians, political scientists and sociologists. The umbrella of the Global Health Academy also extends outwards to specialists across the globe who wish to lend their expertise to our training, teaching or research for shorter or longer periods.

More information: www.ed.ac.uk/global-health
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 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
In order to demonstrate your English language ability, all applicants must provide one of the following qualifications:

Biomedical Sciences (Life Sciences), Public Health (including online learning), Science Communication & Public Engagement (including online learning), Transfusion, Transplantation & Tissue Banking, 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 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).

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).

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 certificate must be no more than three years old at the beginning of your programme, unless you are using an English language test such as IELTS 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 online. The award date must be no more than three years prior to the start date of the programme.
- We do not require you to take an English language test before you apply.

Tuition fees

The following table provides an overview of indicative fee levels for programmes commencing in 2019:

For UK/EU students
- All taught programmes £10,700–£12,800
- Transfusion, Transplantation & Tissue Banking FT £2,630*
- Regenerative Medicine – Clinical & Industrial Delivery FT £2,130*
- MChDent/DClinDent £20,700
- All MPhil 2-years FT / PhD 3-years PT £4,260*
- All MPhil 4-years PT / PhD 6-years PT £2,130*
- All MSc by Research/MMedSci £8,300
- All MSc by Research/MMedSci by Research 2-years PT £4,150
- DDS/MD Med 2-years PT £4,260*
- DDS/MD Med 3-years PT £2,840*
- DDS/MD Med 4-years PT £2,130*

For international students
- All taught programmes £21,600–£26,600
- Transfusion, Transplantation & Tissue Banking FT £7,200
- Regenerative Medicine – Clinical & Industrial Delivery FT £26,600
- MChDent/DClinDent £46,300
- All MPhil 2-years FT / PhD 3-years PT £2,200
- Science Communication PhD £19,000
- Dentistry, Molecular & Clinical Medicine (Clinical), Orthopaedic & Trauma Medicine, Surgery
- DDS/MD Med 2-years PT / PhD 3-years PT £2,200
- DDS £2,200
- BDS £2,200

* Figure shown is the 2018/19 fee level

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

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

Online Learning

For doctoral study, contact: online.learning@ed.ac.uk

The University of Edinburgh

For general guidance on references, visit: www.ed.ac.uk/postgraduate/references

For international students

www.ed.ac.uk/student-funding/asylum

Tuition fees

The following table provides an overview of indicative fee levels for programmes commencing in 2019:

For UK/EU students
- All taught programmes £10,700–£12,800
- Transfusion, Transplantation & Tissue Banking FT £2,630*
- Regenerative Medicine – Clinical & Industrial Delivery FT £2,130*
- MChDent/DClinDent £20,700
- All MPhil 2-years FT / PhD 3-years PT £4,260*
- All MPhil 4-years PT / PhD 6-years PT £2,130*

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For international students
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

Key
- Taught masters programmes
- Masters by Research programmes
- Research programmes
- Scholarships at the University of Edinburgh

Scholarships at the University of Edinburgh
- Beit Trust

Beit Trust and the University of Edinburgh Scholarships jointly fund postgraduate students from Malawi, Zambia and Zimbabwe to undertake a masters: www.beittrust.org.uk

- Edinburgh Global Masters Scholarships

A number of scholarships are available to international students for masters study: www.ed.ac.uk/student-funding/masters

- Edinburgh Global Research Scholarships

These scholarships are designed to attract high-quality international research students to the University: www.ed.ac.uk/student-funding/global-research

- Edinburgh Principal’s Career Development Scholarships

A number of scholarships, open to UK, EU and international PhD students: www.ed.ac.uk/student-funding/global-research

- Enlightenment Scholarships

The University is currently developing a new style of PhD scholarship to attract the best PhD applicants from around the world. These scholarships will provide funding for up to four years. For the latest information, and for details on which Schools will be participating, please check: www.ed.ac.uk/student-funding/enlightenment

- 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

- Julius Nyerere Masters Scholarship (Tanzania)

One scholarship is available to citizens of Tanzania who are normally resident in Tanzania who are accepted on a full-time masters programme: www.ed.ac.uk/student-funding/nyerere

- 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

- Wellcome Trust PhD Awards

The Wellcome Trust offers scholarships to support applicants studying Translational Neuroscience or Tissue Repair. These studentships cover UK/EU tuition fees and stipend: www.ed.ac.uk/student-funding/polish-medicine

- Research council awards

Research councils offer awards to PhD students in most of the Schools within the University of Edinburgh. All these scholarships will provide funding for up to four years. For the latest information, and for details on which Schools will be participating, please check: www.ed.ac.uk/student-funding/enlightenment

- The UK Government has confirmed that EU postgraduate research students commencing their studies in 2019/20 will retain their fee status and eligibility for research council support for the duration of their programmes: www.ed.ac.uk/student-funding/research-councils

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

- Chile

National Commission for Scientific and Technological Research (CONICYT): www.conicyt.cl

- Colombia

Administrative Department of Science, Technology and Innovation (Colciencias): www.colciencias.gov.co

- Ecuador

Secretaria Nacional de Educacion Superior, Ciencia y Tecnologia (BESIICYT): www.educacionsuperior.gob.ec

- Iraq

Ministry of Higher Education and Scientific Research: www.iraqculturaltache.org.uk

- Mexico

National Council of Science and Technology of the United Mexican States (CONACYT): www.conacyt.mx

- Wellcome Trust

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.funded.mx

- Loans available for study at the University of Edinburgh

The University of Edinburgh is a Postgraduate Doctoral Loans Wales - Student Finance England offers postgraduate loans for doctoral study, payable to eligible students and divided equally across each year of the doctoral programme: www.studentfinancewales.co.uk/postgraduate-students/postgraduate-doctoral-loan.aspx

- Postgraduate Loans (PGL) England

Student Finance England offers postgraduate loans for taught and research master's programmes, payable to eligible students: www.gov.uk/postgraduate-loan

- Postgraduate Loans (PGL) Northern Ireland

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

- Loans available for study at the University of Edinburgh

The University is eligible to certify Canadian student loan applications: www.ed.ac.uk/student-funding/canadian-loans

- Erasmus+

The Erasmus+ Master Loan helps students study and live abroad. Students can apply for the Erasmus+ country other than where they live or where they took their first degree. For more information: https://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.studentfinancewales.co.uk/postgraduate-students/postgraduate-doctoral-loan.aspx

- Postgraduate Doctoral Loans Wales

Student Finance Wales offers eligible students postgraduate loans for taught and research master's 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

- 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.marlsshallscholar.org

- Scotland’s Saltire Scholarships

A number of scholarships open to students who are citizens permanently and ordinarily resident in Canada, China, India, Japan, Pakistan and the USA for one year of masters study: www.ed.ac.uk/student-funding/saltire

Funding for online learning

The University offers several scholarships specifically for online, part-time postgraduate programmes, including the Edinburgh Global Online Distance Learning Masters Scholarship, for which applicants to many of our masters programmes can apply: www.ed.ac.uk/student-funding/e-learning/online-distance
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/maps

**Campus maps**

**Little France**
- 01 Queen’s Medical Research Institute
- 02 Clinical Research Imaging Centre
- 03 Chancellor’s Building
- 04 The Royal Infirmary of Edinburgh
- 05 Anne Rowling Neurology Clinic
- 06 Scottish Centre for Regenerative Medicine
- 07 Royal Hospital for Sick Kids

Parking

**Western General**
- 01 ECRC (ICMM South)
- 02 MRC HGU (ICMM Central & West)
- 03 New ICMM Building (ICMM East)
- 04 CGEM (ICMM North)

Parking

**We are here!**
- Central Area
- Edinburgh Dental Institute
- Little France
- Easter Bush
- Western General Hospital

We are here!
Get in touch

Contact us
Tel +44 (0)131 242 6307/6460/6478/6617
Email mvmpg@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/EdinburghMedVet

Visit us
Our Postgraduate Open Day is your opportunity to
come and meet current staff and students. Our next
campus-based Open Day takes place on Wednesday
14 November 2018. 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/
uk-eu-events

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

Chat online
We offer all postgraduate students monthly online
information sessions. To find out more and see when
the next session will be:
www.ed.ac.uk/postgraduate/online-events

For international students, Edinburgh Global runs two
online chat sessions each month. These are timed to
give students in all timezones a chance to get
involved. You can find out more and register online:
www.ed.ac.uk/international/chat-to-us-online

“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)
On 23 June 2016 the UK electorate voted in a national referendum to leave the European Union. At the time of going to print, there was no immediate, material change known that would impact on applicants for 2019 entry. However we recommend that you check online for the latest information before you apply: www.ed.ac.uk/news/eu

The University’s standard terms and conditions will form an essential part of any contract between the University of Edinburgh and any student offered a place here. Our full terms and conditions are available online: www.ed.ac.uk/student-recruitment/terms-conditions

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