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
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 Research and Innovation (ERI) promotes and commercialises our research excellence and can assist you in taking the first step to market, through collaborative research, licensing technology or consultancy.

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

**TOP 50**
We’re consistently ranked one of the top 50 universities in the world. We’re 19th in the 2016/17 QS World University Rankings.

**4TH**
We’re ranked fourth in the UK for research power, based on research quality and breadth.*

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

**23RD**
We’re ranked 23rd in the world for the employability of our graduates.**

**£305m**
In 2014/15 we won £305 million in competitive research grants.

**20**
We’re associated with 20 Nobel Prize winners, including physicists Peter Higgs, Charles Barkla and Max Born, medical researcher Peter Doherty and biologist Sir Paul Nurse.

**137 NATIONALITIES**
Students from two-thirds of the world’s countries study here.

* Research Excellence Framework (REF) 2014
** Latest Emerging Global Employability University Ranking
Online distance learning masters programmes

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

Edinburgh Medical School has been offering innovative postgraduate programmes online to medical and health-related professionals since 2005. Today there are 27 online programmes to choose from and our portfolio is expanding all the time. With more than 1,000 online students in our School, we take the delivery of teaching online as seriously as we do on campus. Every programme has an experienced team of programme director, coordinator and administrator, and each student has a personal tutor, so you will be fully supported in all aspects of your student experience.

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

Our online learning technology is fully interactive and allows you to communicate with our highly qualified teaching staff from the comfort of your own home or workplace. We give you as much access to our staff as if you were here in Edinburgh. You will not only have access to Edinburgh’s excellent resources, but will also become part of a supportive online community, bringing together students and tutors from around the world and enabling you to have the ‘Edinburgh experience’ wherever you are in the world.

Many of our programmes have collaborative relationships with other academic and charitable organisations, giving you a unique opportunity to interact and share knowledge with the widest range of experts in a particular field. When you consider the benefits of flexible online study, it’s not surprising that even locally-based professionals choose this option.

All our ODL programmes in this section have the option to be taken as intermittent study, allowing you to complete a masters programme in up to six years. In addition to compulsory courses, you can choose option courses from a variety of programmes, allowing you to tailor your programme to suit your individual interests and requirements, and enhance your career opportunities in an increasingly competitive marketplace.

New programmes

We are expanding our online distance learning portfolio and plan to launch the following programmes for September 2017 intake:

MSc/PgDip Data Science, Technology & Innovation – building on our existing postgraduate certificate (see page 09), we will now offer this ODL programme to diploma and masters level.

For more up-to-date information on the development of this programme, please check online: www.ed.ac.uk/postgraduate/degrees

Biodiversity, Wildlife & Ecosystem Health

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

Programme description

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

Programme structure

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

YEAR 1: CERTIFICATE COURSES PREVIOUSLY OFFERED INCLUDE:

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

YEAR 2: DIPLOMA COURSES PREVIOUSLY OFFERED INCLUDE:

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

*Subject to minimum student numbers and timetabling.

YEAR 3: MASTERS COURSES PREVIOUSLY OFFERED INCLUDE:

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

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

Career opportunities

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

Entry requirements

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

English language requirements

See page 54.

Fees and funding

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

Programme Director Gordon Findlater
Tel +44 (0)131 650 2997
Email gordon.findlater@ed.ac.uk

Anatomical Sciences

PGCert 1 yr PT, PgDip 2 yrs PT

Programme description

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

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

Programme structure

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

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

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

YEAR 1 COURSES PREVIOUSLY OFFERED INCLUDE:

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

YEAR 2 COURSES PREVIOUSLY OFFERED INCLUDE:

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

Career opportunities

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

Entry requirements

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

English language requirements

See page 54.

Fees and funding

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

Programme Director Gordon Findlater
Tel +44 (0)131 650 2997
Email gordon.findlater@ed.ac.uk

Programme Director Sharon Ogle
Email web.onlineMs@ed.ac.uk
Clinical Education

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

Programme description
Our Clinical Education programme takes advantage of our world renowned expertise to enhance your abilities to teach and assess students in a clinical environment. This is an ideal programme for those responsible for tutoring health care professionals and veterinary practitioners, including doctors, nurses, dental practitioners and those involved with veterinary education. Our aim is to help you reflect upon, and share thoughts about, your practice, while increasing your understanding of how to apply educational theories and evidence from the literature. As a result you will learn the knowledge and skills you need to deliver, develop and research high quality clinical education in your own discipline. This programme is affiliated with the University’s Global Health Academy (see page 53).

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

YEAR 1: CERTIFICATE COURSES PREVIOUSLY OFFERED INCLUDE:
Principles of Teaching and learning; Assessment, Examinations and Standard Setting; The Curriculum; Research in Clinical Education; and Management of Pain and Headache Disorders.

YEAR 2: DIPLOMA COURSES PREVIOUSLY OFFERED INCLUDE:
Principles of Teaching and learning: Individual; Research in Clinical Education; Policy, Leadership, Management and Evaluation.

YEAR 3: MASTERS COURSES PREVIOUSLY OFFERED INCLUDE:
A research report of approximately 15,000 words.

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

Entry requirements
A primary clinical qualification, such as an MBChB, BVS, BDS, Bachelor of Nursing, or their international equivalents (www.ed.ac.uk/international/graduate-entry). We will also consider your application if you have a biomedical science qualification or a non-university professional qualification, such as a BSc(Hons) or appropriate clinical experience. You must be currently involved in clinical, medical, allied healthcare or veterinary education, for example teaching undergraduate or postgraduate students.

English language requirements
See page 54.

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

Programme Director
Michael Ross
Email: michael.ross@ed.ac.uk

Clinical Management & Infectious Diseases

MSc 3 yrs PT

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

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

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

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

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

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

YEAR 1 COURSES PREVIOUSLY OFFERED INCLUDE:
Introduction to Immunology; Science and Biology of Bacteria, Science and Biology of Viruses; Science and Biology of Fungi, Parasites and Protozoa; Laboratory Practise in Microbiology, Virology and Xenobiology; Anti-infective Therapeutics; and Applied Basic Sciences.

YEAR 2 COURSES PREVIOUSLY OFFERED INCLUDE:
Immunopathology; Molecular Diagnostics of Infection; Community Acquired Infections and Public Health; Infection Prevention & Control; HIV Infection and Other Immune-compromised Patients; Clinical Syndromes in Infection and Infection: The Returning Traveller; Diagnosis, Investigation and Management of Imported Infection; Bioinformatics and Study Design in Infectious Diseases; Emerging Infectious Diseases.

YEAR 3 COURSES PREVIOUSLY OFFERED INCLUDE:
Research in Infection Medicine, written reflective element project.

CMI Programme Administration
Tel: +44 (0)131 527 3496
Email: cmid@ed.ac.uk

Clinical Ophthalmology

PGCert 1 yr PT; MSc 3 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 degree of Master of Science (MSc) in Ophthalmology. 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 in clinical and surgical ophthalmologists preparing for the fellowship examinations of the Royal College of Surgeons of Edinburgh (RCSEd) and the Royal College of Ophthalmologists (RCOphth) and those in practice in the community.

Programme structure
The programme runs on a semester basis and involves approximately 10 hours of study each week in a flexible, modular manner. Compulsory courses in each area of clinical ophthalmology are aligned to the curricula of the FRCSEd and RCOphth. 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; Refractive Ophthalmology, Trauma and Advanced Surgical Techniques.

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

Career opportunities
The CMI programme is designed to follow the FRCEd and FRCOphth curricula and prepare the advanced trainees for their exit professional examination. In all, we aim to provide your commitment to continuing professional development and will ensure a competitive edge when applying for consultant posts.

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

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

Programme Administrator
Tel: +44 (0)131 242 9437
Email: cmid@ed.ac.uk
Clinical Trials

Programme description
This programme will provide a knowledge and understanding of the key elements and principles of clinical trial design, delivery and analysis, in addition to the principles of GCP and their practical implementation in clinical trials. It is suitable for graduates of medicine, nursing, pharmacy, life sciences and other allied disciplines involved in Clinical Trials. This programme will support the demand for appropriately qualified investigators to lead clinical trials of all phases. It covers commercial aspects of drug discovery and development, trial and project management, statistics and data management, regulations and ethics, imaging, medical devices and complex interventions.

Programme structure
This programme is made up of compulsory and option courses.

**COMPULSORY COURSES PREVIOUSLY OFFERED INCLUDE:**
- Clinical Trial Foundation Module: Introduction to Clinical Trials
- Good Clinical Practice; Ethics and Regulatory Issues

**OPTION COURSES PREVIOUSLY OFFERED INCLUDE:**
- Clinical Trial Management; Clinical Trials in Special Populations; Patient and Public Involvement; Study Design; Monitoring and Audit; International Imaging and Clinical Trials; Commercial Aspects of Drug Discovery; MSc Dissertation or Clinical Trials e-Portfolio.

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

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

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

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

Data Science, Technology & Innovation

Programme description
Demand is growing for high value data specialists across the sciences, medicine, arts and humanities. The aim of this unique, modular, online distance learning programme is to fully equip tomorrow’s data professionals, offering different entry points into the world of data science, and enhance existing career paths with an additional dimension in data science. You will develop a strong knowledge foundation of specific disciplines as well as direction in technology, concentrating on the practical application of data research in the real world.

Programme structure
For PgCert, you must complete Practical Introduction to Data Science and 40 credits from the list of courses below. For Postgraduate Professional Development, you may choose a maximum of 50 credits from the list of courses below.

**COURSES PROPOSED:**
- Practical Introduction to Data Science: Practical Introduction to High Performance Computing; Engaging with Digital Research; Managing Digital Influence; Social Shaping of Digital Research; Technologies of Civic Participation; Understanding Data Visualisation; The Use and Evolution of Digital Data; Analysis and Collection Tools; Introduction to Vision and Robotics; Advanced Vision (we recommend you take Introduction to Vision and Robotics first, or simultaneously, or have some previous image processing experience).

Career opportunities
This programme is intended for professionals wishing to develop an awareness of applications and implications of data intensive systems. Our aim is to enhance existing career paths with an additional dimension in data science, through new technological skills and/or better ability to engage with data in target domains of application.

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

English language requirements
See page 54.

**MSc 3 yrs. PgDip 2 yrs. PgProfDev up to 2 yrs.**

PgCert 1 yr PT.

Programme contact
Marjorie Dunlop
Tel: +44 (0)131 651 7863
Email datascience@ed.ac.uk

Programme Director Stuart Ralston
Email mscct@ed.ac.uk

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

Programme contact
Marjorie Dunlop
Tel: +44 (0)131 651 7863
Email datascience@ed.ac.uk

Fees and funding
For fees see page 54 and for funding information see page 56.
The ChM programme is a great practical and academic exercise for surgeons at the end of their general surgical training, looking to consolidate their knowledge as they prepare for independent practice.

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

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

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

YEAR 1: CERTIFICATE COURSES PREVIOUSLY OFFERED INCLUDE:
- Global Health Challenges
- MSc 3-6 yrs. PgDip 2-4 yrs. PgCert 1-2 yrs. PT

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

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

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

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

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

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

Entry requirements
A UK 2:1 honours degree, or its international equivalent (www.ed.ac.uk/international/graduate-entry), in a biomedical, medical, public health, veterinary or relevant bioscience topic. We may also consider your application if you have relevant work experience; please contact us to check before you apply.

English language requirements
See page 54.

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

Programme Director Kim Piccozi
Email glhd.onlineims@ed.ac.uk

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

Programme structure
You may study to Postgraduate Certificate or Diploma, or MSc level.

YEAR 1: CERTIFICATE COURSES PREVIOUSLY OFFERED INCLUDE:
- You will complete the compulsory courses Techniques & Physics and Practicaitles & Safety. You will also complete two courses from the following options: Applications in Disease Research; Clinical Applications; Digital Image Processing & Analysis; Image Interpretation & Evaluation.

YEAR 2: DIPLOMA COURSES PREVIOUSLY OFFERED INCLUDE:
- You will complete the compulsory courses Statistics and Study Design. You will also complete four courses from the following options: Advanced Microscopy; Preclinical Imaging - Neuro-anatomy; Body Anatomy; Translational Imaging; Cardiovascular Imaging; Oncologic Imaging; Imaging in Inflammation & Infection.

YEAR 3: MASTERS COURSES PREVIOUSLY OFFERED INCLUDE:
- You will complete practical work (a project) and assessed activities.

Career opportunities
Courses which will exit the programme with improved clinical image management skills and will also be better able to advise companies and businesses which develop tools and techniques for their specialties, where imaging is required. For pre-clinically focused students, an imaging skill set expands academic possibilities and is more likely to assist with translational techniques. The programme will also be attractive as a preliminary qualification before undertaking clinical training in hospital medical physics (for physicists and engineers) or before taking a PhD or research fellowship.

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

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

English language requirements
See page 54.

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

Programme Director Liz Grant
Email Liz.grant@ed.ac.uk

Programme description
The programme is designed to enable those with a personal, academic or professional interest in global health to study a variety of related subjects and gain confidence 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 pursue a career or further studies in international and national organisations that manage global health issues.

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

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

English language requirements
See page 54.

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

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

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

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

Programme structure
This programme is made up of compulsory and option courses.

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

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

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

Entry requirements
A medical degree (MBChB or equivalent) or a UK 2:1 honours degree, or its international equivalent (www.ed.ac.uk/international/country), in a clinically relevant subject. You must have work experience in a clinical setting.

You may be admitted to certificate level only in the first instance.

English language requirements
See page 54.

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

International Animal Health

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

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

Programme structure
You may study to Postgraduate Certificate, Postgraduate Diploma or MSc level.

YEAR 1: CERTIFICATE COURSES PREVIOUSLY OFFERED INCLUDE:
- Applied Epidemiology and Surveillance; Host Responses to Infection; Pathogen Strategies for Transmission and Survival.

YEAR 2: DIPLOMA COURSES PREVIOUSLY OFFERED INCLUDE:
- You will study Zoonotic Disease and either Surveillance and Control of Transboundary Diseases Afflicting International Trade or An Introduction to Transboundary Diseases and their Impact on Trade and Wildlife Populations. You will then choose a selection of courses from the following options: Control of Economically Important Parasites; New Developments in Epidemiology and the Control of Vector Borne Disease; Veterinary Vaccinology; Wildlife Animal Health and Environment; Technology Advances in Veterinary Diagnostics; Animal Disease Survey Design and Analysis; Project Planning and Decision Support for Animal Disease Control; Introduction to GIS and Spatial Data Analysis; Advanced GIS and Spatial Epidemiology and Modelling; An Introduction to Project Cycle Management; Globalisation and Health; The Modern Zoo: Artificial Reproduction Technology and Wildlife; Pastoralism and Herd Health; Zoonotic Diseases in a Global Setting; Socioeconomic Principles for One Health.

YEAR 3: MASTERS COURSES PREVIOUSLY OFFERED INCLUDE:
- You will either conduct a written reflective element of 10,000-15,000 words or take Project Cycle Management and Funding Application Preparation.

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

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

English language requirements
See page 54.

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

Programme Contact
Email iah.onlinemsc@ed.ac.uk

Fees and funding
For fees see page 54 and for funding information see page 56.
Programme description
Neuroimaging research techniques are now in demand from expanding areas of research that require expert understanding of brain function. These include neuroscience, psychology, pharmacology, informatics, physics, computer science, neuroradiology and linguistics. This flexible, part-time, online programme allows you to improve your neuroimaging expertise and gain a highly regarded masters qualification, while remaining at work in your field and in your own location.

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

Programme structure
You may choose to study to Postgraduate Certificate, Postgraduate Diploma or MSc level.

YEAR 1: CERTIFICATE COURSES PREVIOUSLY OFFERED INCLUDE:
- Techniques and Physics: Applications in Disease; Common Image Processing Techniques; Practicalities of MK.

YEAR 2: 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.

YEAR 3: MASTERS
You will complete practical work and assessments.

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

Postgraduate Professional Development
If you are looking for a shorter course option, we offer online credit-bearing courses which run for 11 weeks at a time. These lead to a University of Edinburgh postgraduate award of academic credit. You may take a maximum of 50 credits worth of courses through our Postgraduate Professional Development scheme. These credits will be recognised in 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/international/graduate-entry), in neuroscience, physiology, pharmacology, informatics, psychology, physics, medicine (MBChB or equivalent) or a related subject. We will also consider your application if you have a radiography qualification.

English language requirements
See page 54.

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

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

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

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

Programme structure
You may choose to study to Postgraduate Certificate, Postgraduate Diploma or MSc level.

YEAR 1: CERTIFICATE COURSES PREVIOUSLY OFFERED INCLUDE:
- Basic Examination & Investigation Techniques; Advanced Examination & Investigation Techniques; Advanced Acute Eye Investigation Techniques; Advanced Ophthalmic Science: Anatomy, Pathology, Physiology of the Ocular Structures; Advanced Ophthalmic Science: Anatomy, Pathology, Physiology of the Ocular Structures; Basic Examination & Investigation Techniques; Basic Acute Eye Disease & Vision Loss; Basic Ophthalmic Science: Anatomy, Pathology, Physiology of the Ocular Structures.

YEAR 2: DIPLOMA COURSES PREVIOUSLY OFFERED INCLUDE:
- Advanced Examination & Investigation Techniques; Advanced Ophthalmic Science: Anatomy, Pathology, Physiology of the Ocular Structures; Basic Examination & Investigation Techniques; Advanced Glaucoma; Advanced Muscular Disease; Advanced Acute Eye Disease & Vision Loss; Advanced Ophthalmic Science: Anatomy, Pathology, Physiology of the Ocular Structures; Advanced Ophthalmic Science: Anatomy, Pathology, Physiology of the Ocular Structures.

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 clinical experience.

English language requirements
See page 54.

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

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

www.ed.ac.uk/pg/234

www.ed.ac.uk/pg/667

www.ed.ac.uk/pg/682

www.ed.ac.uk/pg/789
The University of Edinburgh
Medicine Postgraduate Opportunities 2017

www.ed.ac.uk/medicine-vet-medicine/postgraduate

Public Health

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

www.ed.ac.uk/global-health

Programme structure
After Year 1, you will either follow a general public health strand or specialise in global non-communicable disease. See online for options.

YEAR 5: CERTIFICATE COURSES PREVIOUSLY OFFERED INCLUDE:
- Epidemiology for Health Professionals
- Health Systems Analysis
- Introduction to Qualitative Research Methods
- Introduction to Health Promotion

YEAR 2: DIPLOMA COURSES PREVIOUSLY OFFERED INCLUDE:
The following courses are compulsory: Research Skills for Public and Global Health. In addition, you can choose either 40 credits of options and a dissertation or 60 credits of options (see full list). Global Health Non-Communicable Diseases (NCD) strand: Introduction to Global Health; Globalisation and Non-Communicable Diseases; plus 20 credits options.

YEAR 3: MASTERS
Either 60 credits of option courses (see online for full list) or a dissertation. The dissertation option will only be available by agreement with the programme director if stipulated academic requirements have been met.

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

Entry requirements
A UK 2:1 degree, or its international equivalent (China 80%; India 60%; Nigeria 3.5; Upper Second; North America 3.25; www.ed.ac.uk/internationalgraduate-entry), in medicine, nursing, social science, science, biomeicine, or other related discipline. We may also consider your application if you have a different background or if you have been out of full-time education for some time; please contact us to check before you apply.

English language requirements
See page 54.

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

Programme Co-ordinator
Sarah Gordon
Tel +44 (0)131 650 2675
Email mph.dlgd@ed.ac.uk

Science Communication & Public Engagement

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

Programme description
The fields of science communication and public engagement are currently enjoying unprecedented growth. This is being driven by a greater need to demonstrate the impact of publicly funded research, the need for science education 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 Health Academies: www.ed.ac.uk/global-health

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 Sciences; Science Education; The Role of Social Media in Science Communication

YEAR 2: DIPLOMA COURSES PREVIOUSLY OFFERED INCLUDE:
- Dialogue for Science Communication and Public Engagement
- Science, Policy and Practice; Science and the Media: Effective Exhibit and Programme Development; Creative Arts in Science Engagement; Science Communication; Principles and Practice 2

YEAR 3: MASTERS COURSES PREVIOUSLY OFFERED INCLUDE:
- SCPE Critical Analysis/Research Project or SCPE Practical Project
- The main dissertation can be a research or practical project or a combination of both.

Career opportunities
To address the need for effective science communication and public engagement with science, there has been a significant rise in opportunities available for professionals with the specialist knowledge, skills and attributes necessary to pursue roles at the interface between scientific and public communication. These roles can be found, for example, in higher education institutions, research centres, museums, science centres, learned societies and consultancies for democratic decision-making. Examples of specific roles are engagement managers, information and education officers, and policy and knowledge brokers, in addition to the traditional science communicator role.

Entry requirements
A UK 2:1 degree, or its 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 54.

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

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

Surgical Sciences

MSc 3 yrs PT

Programme description
This online programme is jointly offered by the University of Edinburgh 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, Postgraduate Diploma or MSc. At Postgraduate Certificate and Postgraduate Diploma levels, students must attend an end of year examination held in Edinburgh for UK-based students or with a pre-approved partner institution for international students.

YEAR 1 COURSES PREVIOUSLY OFFERED INCLUDE:
- Introduction to the ESSG: Cardiovascular and Respiratory; Neoplasia; Immunology, Microbiology and Haematology; Gastrointestinal 1; Gastrointestinal 2 and Transplant; Colorectal; Urology; Locomotor and Plastic; Endocrinology, Breast and Skin; ENT/OMFS

YEAR 2 COURSES PREVIOUSLY OFFERED INCLUDE:
- Preoperative Assessment: Principles of Preoperative and Critical Care; Principles of Surgical Management; Surgical and Critical Care; Academic Activity

YEAR 3
A masters research project in which you will plan, execute and develop a research paper, potentially involving clinical or laboratory research.

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

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

English language requirements
See page 54.

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

Programme Director
Stephen Wigmore
Email essinfo@rcsed.ac.uk

Trauma & Orthopaedics

MCh 2 yrs PT

Programme description
This course is offered by the Royal College of Surgeons of Edinburgh and the University of Edinburgh, and leads to the degree of Master of Chirurgiae (MCh).

Based on the UK Intercollegiate Surgical Curriculum, the MCh in Trauma and Orthopaedics provides the opportunity for you to select advanced courses relevant to your declared specialty and supports learning for the Fellowship of the Royal College of Surgeons (FRCS) examinations.

The programme is designed to run alongside clinical training and complement workplace assessment.

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

YEAR 1
You will explore research and teaching methodology, and develop your ability to apply, analyse and synthesise evidence and develop research skills in a clinically relevant manner.

YEAR 2
Compulsory courses cover the core elements of the subspecialties of orthopaedic surgery. These are taught and assessed using a clinical problem-based approach, supported by system-based review of the course material. You will be expected to critically analyse reference material and, where appropriate, relate it to your own work.

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

Entry requirements
You must hold a medical degree (MBChB or equivalent) recognised by the General Medical Council and would normally have acquired your MRCS (or equivalent assessment milestone) and be an Advanced Trainee in Trauma and Orthopaedics (ST 5 or 6 equivalent).

English language requirements
See page 54.

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

Programme Directors
John McKinley & Matt Moran
Email cmhinfo@rcsed.ac.uk
Urology

CHM 2 yrs PT

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

Programme structure
The programme runs on a semester basis over 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 distance learning nature of this programme is perfect for doctors working unsociable shift patterns.

YEAR 1

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

YEAR 2

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

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

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

Entry requirements
You must hold a medical degree (MBChB or equivalent) recognised by the General Medical Council, and must have acquired your MRCS (or equivalent assessment milestone). UK applicants must have completed a minimum of 24 months of core training in the surgical specialties and 18 months of specialty training in urology before enrolling for the CHM. We may also consider your application if you undertake another training programme or are a urologist who already holds FRCS for the ChM. We may also consider your application if you undertook the General Medical Council, and must have acquired your MRCS (or equivalent assessment milestone).

English language requirements
See page 54.

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

Programme Director: Grant Stewart
Email: chminfo@rcsed.ac.uk

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

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

Vascular & Endovascular Surgery

CHM 2-4 yrs PT

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

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

YEAR 1 COURSES PREVIOUSLY OFFERED INCLUDE:

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

YEAR 2

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

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

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

UK applicants must be an advanced trainee in general or vascular surgery (UK ST 3/4) and be based in a supervised surgical training programme at the time of enrolling. Applicants from outside the UK must have completed a minimum of two years of core training in the surgical specialties and two years of specialty training in vascular surgery before enrolling.

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

English language requirements
See page 54.

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

Programme Director: Andy Tamba-Raja
Email: chminfo@rcsed.ac.uk

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

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

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

A masters by research is also a 12-month programme, but is much more focused on developing your research skills, making it an excellent stepping-stone to a PhD. We offer two different routes for masters by research: a pure research degree where you spend 12 months in one lab working on one project, or a ‘taught’ masters by research that includes seminars and core training alongside two 20-week research projects, letting you work in two different lab environments.

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.

Biomedical Sciences

MSc by Research 1 yr FT

Programme description
This one-year, full-time programme provides an excellent grounding for PhD 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 subjects, one each semester, that best suit your interests and career goals.

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

PROJECT 1 (SEPTEMBER TO FEBRUARY)
Courses previously offered include: Cardiovascular Biology; Cell Communication; Genomics & Biological Pathways; Infectious Diseases; Mechanisms of Inflammatory Disease; Reproductive Science 1.

PROJECT 2 (APRIL TO AUGUST)
Courses previously offered include: 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 neuroscience, stem cells and regenerative medicine, hepatic cell biology, developmental biology (From Divum to Organism: How Bodies Build Themselves), or other research areas, with the permission of the programme director. You will also be required to attend the taught element of another theme as appropriate.

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

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

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

English language requirements
See page 54.

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

Programme Director Andrew Hall
Email a.hall@ed.ac.uk

Cardiovascular Biology

MSc by Research 1 yr FT

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

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

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

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

English language requirements
See page 54.

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

Programme Director Matthew Bailey
Email matthew.bailey@ed.ac.uk

Human Anatomy

MSc 1 yr FT

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

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

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

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

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

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

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

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

English language requirements
See page 54.

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

Programme Director Lyndsay Murray
Email lyndsay.murray@ed.ac.uk

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

Chloe Gelder, MSc Human Anatomy 2011
Medical Sciences

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

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

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

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

Career opportunities
Around a quarter of our students continue to PhD study. Those who choose to return to clinical practice do so with a broader experience of research than is afforded by the undergraduate clinical medicine curriculum. As an example, we have graduates who will be taught practical techniques, including basic tissue culture, and how to run polymerase chain reactions and western blots.

Neuroscience (Integrative Neuroscience)

MSc by Research 1 yr FT

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

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

OPTION COURSES PREVIOUSLY OFFERED INCLUDE:

- Developmental Neurobiology: Neural Circuits, Neurodegeneration and Regeneration.
- The option courses run during the first 12 weeks on two half-days per week. These will give you a deeper insight into the concepts and methodology of a specific field of interest.
- For your research you can choose available projects or contact principal investigators from more than 120 groups in the Edinburgh Neuroscience community to develop your own project, on any topic chosen from a broad range, from psychology to nanoscience.
- Around 20 per cent of the course will consist of taught classes and seminars. The rest is spent in your host department. To consider your research interests and opportunities we advise you to visit Edinburgh’s Clinical Academic Training centre (ECAT) www.ecat.ed.ac.uk or speak to the Programme Director.
- Around a quarter of our students continue to PhD study. Those who choose to return to clinical practice do so with a broader experience of research than is afforded by the undergraduate clinical medicine curriculum. As an example, we have graduates who will be taught practical techniques, including basic tissue culture, and how to run polymerase chain reactions and western blots.

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

Entry requirements
- A UK 2:1 honours degree, or its international equivalent.
- English language requirements
  - For MSc by Research Integrative Neuroscience, a minimum IELTS score of 6.5 overall and at least 6.0 in each component is required.

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

Oral Surgery

MClInDent 2 yrs FT

Programme description
This programme is for dental surgery graduates who wish to extend their knowledge, clinical practice experience and expertise in oral surgery. The programme will give you theoretical and practical understanding of oral surgery and how it relates to other dental specialties. The syllabus includes components of the core competencies for oral surgery training for the General Dental Council and Royal College of Surgeons of England guidelines:
- Extraction of teeth and retained roots/pathology.
- Management of associated complications including oro-antral fistula.
- Management of odontogenic and all other oral infections.
- Management of impacted teeth.
- Management of complications.
- Peri-implant surgery.
- Intra-oral and labial biopsy techniques.
- Treatment of intra-oral benign and cystic lesions of hard and soft tissues.
- Management of benign salivary gland disease by intra-oral techniques and familiarity with the diagnosis and treatment of other salivary gland diseases.
- Insertion of osseointegrated dental implants including bone augmentation and soft tissue management.
- Appropriate pain and anxiety control including the administration of standard conscious sedation techniques.
- Management of adults and children as in-patients, including the medically at risk patient.
- Management of dento-alveolar trauma and familiarity with the management and treatment of fractures of the jaws and facial skeleton.
- Management of oro-facial pain including temporomandibular joint disorders.
- Clinical diagnosis of oral cancer and potentially malignant diseases, familiarity with their management and appropriate referral.
- The diagnosis of dentofacial deformity and familiarity with its management and treatment.
- Diagnosis of oral mucosal diseases and familiarity with their management and appropriate referral.
- Control of cross-infection.
- Medico-legal aspects of oral surgery.

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

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

Entry requirements
- A primary dental qualification (such as a Bachelor of Dental Surgery), or its international equivalent (www.ed.ac.uk/international/graduate-entry), plus a minimum of two years’ postgraduate experience. You must meet our English language requirements before your application will be considered. All successful applicants will be required to join Disclosure Scotland’s Protecting Vulnerable Groups (PVG) Scheme before starting the course.
- The programme is for dental surgery graduates who wish to extend their knowledge, clinical practice experience and expertise in oral surgery. The programme will give you theoretical and practical understanding of oral surgery and how it relates to other dental specialties. The syllabus includes components of the core competencies for oral surgery training for the General Dental Council and Royal College of Surgeons of England guidelines:
- Extraction of teeth and retained roots/pathology.
- Management of associated complications including oro-antral fistula.
- Management of odontogenic and all other oral infections.
- Management of impacted teeth.
- Management of complications.
- Peri-implant surgery.
- Intra-oral and labial biopsy techniques.
- Management of benign salivary gland disease by intra-oral techniques and familiarity with the diagnosis and treatment of other salivary gland diseases.
- Insertion of osseointegrated dental implants including bone augmentation and soft tissue management.
- Appropriate pain and anxiety control including the administration of standard conscious sedation techniques.
- Management of adults and children as in-patients, including the medically at risk patient.
- Management of dento-alveolar trauma and familiarity with the management and treatment of fractures of the jaws and facial skeleton.
- Management of oro-facial pain including temporomandibular joint disorders.
- Clinical diagnosis of oral cancer and potentially malignant diseases, familiarity with their management and appropriate referral.
- The diagnosis of dentofacial deformity and familiarity with its management and treatment.
- Diagnosis of oral mucosal diseases and familiarity with their management and appropriate referral.
- Control of cross-infection.
- Medico-legal aspects of oral surgery.

Programme Director
Norma O’Connor
Email epdi@ed.ac.uk

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

www.ed.ac.uk/pg/245
www.ed.ac.uk/pg/196
www.ed.ac.uk/pg/441
Orthodontics

MClInDent 2 yrs FT

Programme description
This is a two-year part-time programme in orthodontics by the Specialist Advisory Committee in Orthodontics. It is designed for practitioners who are ready to specialise in orthodontics.

Entry requirements
A primary dental qualification, plus two years' postgraduate experience. You must meet our English language requirements before your application will be considered.

Programme structure
The programme is divided into four terms, with lectures, seminars, workshops, and a supervised piece of research. Course assessments are mainly based on exams and essays.

Career opportunities
This programme will prepare you for a career in research, clinical practice, or public health.

Paediatric Dentistry

MClInDent 2 yrs FT

Programme description
This is a two-year part-time programme in paediatric dentistry by the Specialist Advisory Committee in Paediatric Dentistry. It is designed for those in possession of a training number awarded by the Postgraduate Dental Dean for Scotland.

Programme structure
The programme consists of lectures, seminars, workshops, and a supervised piece of research. Course assessments are mainly based on exams and essays.

Career opportunities
This programme will prepare you for a career in research, clinical practice, or public health.

Prosthodontics

MClInDent 2 yrs FT

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

Programme structure
The programme is divided into five terms, with lectures, seminars, workshops, and a supervised piece of research. Course assessments are mainly based on exams and essays.

Career opportunities
This programme will prepare you for a career in research, clinical practice, or public health.

Public Health

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

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

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

COMPULSORY COURSES PREVIOUSLY OFFERED INCLUDE:
- Introduction to Epidemiology
- Introduction to Qualitative Research
- Introduction to Research Ethics
- Introduction to Statistics
- Introduction to Global Health

OPTION COURSES PREVIOUSLY OFFERED INCLUDE:
- Advanced Protocol Development
- Clinical Trials
- Communicable Disease Control and Environmental Health
- Developing and Evaluating Complex Public Health Interventions
- Epidemiology of Chronic Diseases
- Epidemiology for Public Health
- Further Statistics
- Genetic Epidemiology
- Global Health Epidemiology
- Health Promotion
- Introduction to Global Health
- Introduction to Global Health Research
- Public Health Ethics
- Qualitative Research in Health
- Resource Allocation & Health Economics
- Sociology of Health & Illness
- Statistical Modelling

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

Entry requirements
A UK 2.1 honours degree, or its international equivalent (China 80-85%; India 60%; Nigeria 3.5/Upper Second; North America 3.25). www.ed.ac.uk/international/graduate-entry, in medicine, nursing, social science, science, biological science or related disciplines.

We may also consider your application if you have a different background or if you have been out of full-time education for some time; please contact us to check before you apply.

English language requirements
See page 54.

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

Programme Director Niall Anderson
Email cphs.pg@ed.ac.uk

The University of Edinburgh
Postgraduate Opportunities 2017
Regenerative Medicine: Clinical & Industrial Delivery

MSC 1 yr FT

Programme description

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

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

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

Programme structure

The programme contains both taught and independent project components.

COMPELLARY COURSES PREVIOUSLY OFFERED INCLUDE:

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

Placement

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

Career opportunities

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

Entry requirements

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

English language requirements

See page 54.

Fees and funding

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

Programme Director

Paul Travers
Email paul.travers@ed.ac.uk

Reproductive Sciences

MSC by Research 1 yr FT

Programme description

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

Research topics offered include problems in all reproductive organs, and throughout pregnancy and labour, in the fetus and neonate, and in-fetal programming resulting in increased risk of chronic disease in adulthood.

The MRC Centre for Reproductive Health (CRH) has close links with other internationally recognised research centres. Many student projects are organised with these centres, reflecting the interdisciplinary research environment, where students and trainers are regarded as the lifeblood for the future. Research at the CRH addresses questions of crucial importance to reproductive health that have implications for resilience and repair in other organs.

Programme structure

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

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

Career opportunities

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

Entry requirements

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

English language requirements

See page 54.

Fees and funding

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

Programme Director

Sander van den Driese
Email s.vandendriesche@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 understand the impact of publicly funded research, the need for research to be valued and a desire for a stronger evidence base for policy. Many career opportunities are emerging at the interface between scientific research and various public groups. You will experience a variety of science communication and public engagement methodologies and you will engage with current science communication challenges. In the process, you will develop your ability to think critically and to effectively reflect on your practice. The learning from one course is transferable to other courses, thus ensuring interconnection across the programme.

Programme structure

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

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

COMPULSARY COURSES PREVIOUSLY OFFERED INCLUDE:

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

PLACEMENTS

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

Career opportunities

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

Entry requirements

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

English language requirements

See page 54.

Fees and funding

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

Programme Director

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

Transfusion, Transplantation & Tissue Banking

MSC 3 yrs PT

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 assurance;
- 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 and ethics of transfusion and research skills.

Programme structure

This 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 transfusable 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/internationalgraduate-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.

English language requirements

See page 54.

Fees and funding

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

Programme Director

Anne Thomson
Email anne.thomson2@nihr.net

See also...

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

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

www.ed.ac.uk/pg/797

www.ed.ac.uk/pg/204

www.ed.ac.uk/pg/790

www.ed.ac.uk/pg/233
A world-class research experience

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

Little France campus
Our teaching and research facilities at Little France are next to the Royal Infirmary Edinburgh, a major teaching hospital that provides a full range of acute medical and surgical services for patients from across Lothian. It also offers specialist services for people from across the south-east of Scotland and beyond, and hosts Scotland's biggest maternity unit – the Simpson Centre for Reproductive Health – where more than 6,000 babies are born each year. Our researchers are based within state-of-the art buildings including the 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, and the MRC Centre for Regenerative Medicine.

Research centres
BHF 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 Reproductive Medicine: www.crm.ed.ac.uk

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

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 populations to process.

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

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

Research centres
Edinburgh Cancer Research Centre: www.ecrc.ed.ac.uk
Centre for Genomic and Experimental Medicine: www.cgem.ed.ac.uk
The MRC Human Genetics Unit: www.hgu.mrc.ac.uk

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

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

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 Cognitive and Neural Systems: www.cCNS.ed.ac.uk
Centre for Neuroregeneration: www.cnrt.ed.ac.uk
Centre for Integrative Physiology: www.ed.ac.uk/integrative-physiology
Centre for Population Health Sciences: www.cPHS.mvm.ed.ac.uk

The University is piloting PhDs by distance learning. If you’re interested in studying with us this way, we’ve keen to investigate possibilities in some of our areas of research.
Research opportunities

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

An MSc by Research degree gives you an excellent grounding in research, and can serve as a stepping stone to a PhD. An MSc by research involves research training and a research project. The programme takes one year to complete and is examined by thesis. Please also see MSc by Research listings on pages 22-29.

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

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

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

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

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

For more information see: www.optima-cdt.ac.uk

Cardiovascular Science

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

Research profile
The Centre for Cardiovascular Science aims to foster and deliver research into the causes, consequences and therapy of cardiovascular diseases. We offer postgraduate opportunities 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, preclinical programming of cardiovascular disease, renal dysfunction and hypertension, mechanisms of endothelial dysfunction, circadian biology and cell biology.

English language requirements
See page 54.

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

Contact Matthew Bailey
Email: matthew.bailey@ed.ac.uk

www.ed.ac.uk/pg/208

Child Life & Health

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

Our main areas of research include brain and acute injury, brain and cell biology, hypertension, mechanisms of endothelial dysfunction, circadian biology and cell biology.

English language requirements
See page 54.

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

Contact Jurgen Schwarze
Email: jurgen.schwarze@ed.ac.uk

www.ed.ac.uk/pg/209

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 transitional centre without walls that combines basic and applied research to study the causes, consequences and treatment of major brain disorders. CCBS is a major University interdisciplinary group that comprises the Division of Clinical Neurosciences (www.ed.ac.uk/clinical-brain-sciences) and the Division of Psychiatry (www.ed.ac.uk/psychiatry).

Our research approach is to integrate laboratory and clinical studies using a range of experimental tools and methodologies that include:
• human stem cells;
• disease modelling;
• advanced clinical imaging;
• epidemiological-based observational disease cohort studies;
• clinical trials – first 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 their 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 55.

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

Contact Programme Administrator
Email: ccbs-phd@ed.ac.uk

www.ed.ac.uk/pg/235

Clinical Education

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

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

Some of our current research focuses on:
• Faculty development;
• Assessment and feedback in medical education;
• Psychometrics;
• Learning outcome development and mapping;
• Students learning to teach and Peer Assisted Learning (PAL);
• Preparation for practice;
• International medical education; and
• Clinical skills.

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

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

English language requirements
See page 54.

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

Contact Michael Ross
Email: michael.ross@ed.ac.uk

www.ed.ac.uk/pg/861
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 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.

The result is the Global Registry of Acute Coronary Events (GRACE) programme and the largest multinational study of ACS.

**The GRACE risk score**

Members of the Centre of Cognitive and Neural Systems (CCNS) are divided into different research groups with a focus on human cognitive neuroscience (including ageing), the neurobiology of learning, memory and plasticity (focusing on hippocampus and cortex), the processing of nociceptive somatosensory, somatosensory physiology and pharmacology, and the consequences of drug action, including drugs of abuse.

The scientific goal of the CCNS is to understand information processing by the central and peripheral nervous systems, at several levels of analysis, from cognitive psychology through cognitive neuroscience and brain imaging, behavioural neuroscience and neuropharmacology, and extending to theoretical models of neuronal networks.

The CCNS is based at the Central Area campus, and has excellent facilities for cognitive and systems neuroscience, including human cognitive neuroscience, functional MRI facilities, rodent surgical facilities, testing rooms for water mazes, event arenas and wet-lab facilities. We also offer expertise and facilities for functional imaging in animals and excellent genetic models of CNS diseases. Molecular and cellular analysis of cell death and plasticity underpin in vivo investigating.

**English language requirements**

See page 54.

**Fees and funding**

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

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

**The GRACE risk score**

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

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

Entry requirements
You must:
• Have a UK 2:1 honours degree, or its international equivalent;
• Have a qualification that is registrable with the General Medical Council;
• Have at least one year of experience in scientific work bearing directly on your profession, or in the practice of medicine or surgery; and
• In the case of applicants from countries where English is not the first language, a qualification that is registrable with the General Medical Council.

Fees and funding
See page 54.

Contact
Dr Kathy Evans
Email kathy.evans@igmm.ed.ac.uk

Genomic & Experimental Medicine

Research profile
The Centre for Genomic and Experimental Medicine (CGEM) is part of the MRC (University of Edinburgh) Institute of Genetics and Molecular Medicine (IGMM). CGEM’s mission is to use genetics and genomics to understand the mechanisms of disease and design novel intervention strategies. In the last Research Assessment Exercise, the research outputs of CGEM investigators were returned in the clinical and hospital based subjects unit of assessment and received the highest possible rating.

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

English language requirements
See page 54.

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

Programme Director
Dr Kathy Evans
Email kathy.evans@igmm.ed.ac.uk

Genetics & Molecular Medicine

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

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

English language requirements
See page 54.

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

Programme Directors
Professor Cathy Abbott | Professor Nick Gilbert
Email catherine.abbott@igmm.ed.ac.uk

Global Health

Research profile
This programme offers you the opportunity to work in a multi- and interdisciplinary way, building on your knowledge, skills, interest and passion to carry out innovative global health research that makes a new contribution to the existing knowledge base. There are many opportunities to study Global Health. Contact us with your idea and we will endeavour to match you with potential centres of excellence and supervisors. We have many research priorities, including such global health issues as:
• mapping and measuring the shifting burden of global disease;
• neglected and emerging tropical diseases;
• infectious diseases;
• non-communicable diseases;
• global palliative care;
• population health;
• social inequalities in health;
• sexual and reproductive health;
• e-health and tele-medicine;
• migration and minority ethnic health;
• culture, faith and health; and
• translation of leading scientific advances into effective interventions.

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

English language requirements
See page 54.

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

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

Geriatric Medicine

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, Western General Hospital and Borders General Hospital.

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

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

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

English language requirements
See page 54.

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

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

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

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

MRC Human Genetics Unit, and the Edinburgh Cancer Research Centre.

www.ed.ac.uk/pg/833
www.ed.ac.uk/pg/839
www.ed.ac.uk/pg/214
www.ed.ac.uk/pg/698

The University of Edinburgh
Medicine Postgraduate Opportunities 2017

www.ed.ac.uk/medicine-vet-medicine/postgraduate
Infectious Diseases

MSc by Research 1 yr FT

Programme description
This programme is organised by Edinburgh Infectious Diseases, which is hosted jointly by the College of Medicine & Veterinary Medicine and the College of Science & Engineering. It provides an introduction to research methodology for biologists, medics and veterinarians. The training also provides an entry into PhD studies. Previous students have undertaken projects in the following areas:

- molecular and intracellular detection of infectious agents;
- clinical vector biology and vectorborne 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 (including major tropical diseases such as malaria, lymphatic filariasis and river blindness);
- the immunology of respiratory infections (for example Johne’s Disease), and the pathogenesis of prion and viral diseases (animal and human, including herpes and HIV).

Programme structure
The learning process includes a one-year research project, and you will be required to attend research seminars and lectures, including those on the related areas of immunology, microbiology and pathology. Training will also be given in generic skills including statistics, project management and planning, and oral and written presentation skills.

Career opportunities
This programme is designed to help you in your research career.

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 54.

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

Contact
Kim Picozzi
Email kim.picozzi@ed.ac.uk

Inflammation

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

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 regulation of established inflammatory responses so as to limit tissue injury; and
- promoting safe resolution of inflammation and restoration of the structure and function of the perturbed tissue.

We have particular interest in inflammatory diseases of the lungs 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 development of research in the CIR into the links between inflammation and cancer.

English language requirements
See page 54.

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

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

Integrative Physiology

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

Programme description
The Centre for Integrative Physiology (CIP) fosters research into fundamental mechanisms and pathways relevant to human function and disease. CIP Investigators exploit rapid advances in the enabling technologies available from genomics, proteomics, imaging, informatics, and in-vivo analysis to understand the function of gene products at the cell, organ and whole animal level. We also exploit the most appropriate model organisms/systems to investigate the delicate balance between high biomedically relevance (for example human, mouse, rat) and high genetic power (such as Drosophila and fish).

English language requirements
See page 54.

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

Contact
Postgraduate Secretary
Email ibms-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 on 1st April 2015. The combination of informatics and biomedicine is fundamental for advances towards 4P medicine – personalised, predictive, preventive, and participatory.

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

This new PhD programme will provide multidisciplinary training in medical informatics and data intensive biomedicine. A variety of projects will be offered, aligned with the research programmes of group leaders within the Usher Institute of Population Health Sciences and Informatics. The programme will be suitable for students from a variety of academic backgrounds, such as physics, mathematics, medicine, biology, science, epidemiology, statistics, population health and computing science. The common theme across this interdisciplinary group is to build a team of data intensive science that acts as a driving force for new developments in medicine and healthcare.

English language requirements
See page 54.

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

Contact
Jackie Price
Email jackie.price@ed.ac.uk

Molecular & Clinical Medicine (Edinburgh Cancer Research Centre)

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

Programme description
Edinburgh Cancer Research UK Centre (ECRC), based at the Western General Hospital, strives to take a comprehensive approach to cancer research, combining both laboratory-based research and clinical approaches. The Centre studies the genetic and biological basis of cancer and disease pathology and devises and tests new forms of therapy arising from our basic, translational and clinical research programmes. Our aim is to carry out high-quality research into effective cancer prevention, diagnosis and treatment, as well as the symptoms associated with cancer.

English language requirements
See page 54.

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

Contact Pauline McDonald
Email ecrc_pg_administration@ed.ac.uk

Neuroscience

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

Programme description
The Centre for Neuroregeneration (CNR) conducts research at the cellular and molecular levels. There is active collaboration with clinical neuroscientists as well as computational neuroscientists working in neuroinformatics. The Edinburgh neuroscience community maintains the highest standards of research training and a long tradition of research publication in international journals. The division has several interdisciplinary research groups studying the degeneration and repair of neurons and the mechanisms that underlie human neurological diseases.

English language requirements
See page 54.

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

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

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

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

**Email**

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

**Contact**

Hamish Simpson
Email h.simpson@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 and Veterinary Medicine, reflecting the collaborative and overarching role of pathology in translational medicine. There are also close links to research and development within adjacent hospitals across Edinburgh.

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

**Email**

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

**Contact**

Sarah Howie
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**Population Health Sciences**

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

**Research profile**

The Centre for Population Health Sciences supervises postgraduate research 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.

**Email**

[Email](mailto:population.health.science@ed.ac.uk)

**Contact**

Sarah Howie
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**Programme description**

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

**Email**

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

**Contact**

Kate Hardman
Tel +44 (0)131 651 7891
Email precision.medicine@ed.ac.uk

**Precision Medicine**

**PhD 3-4 yrs FT**

**Programme description**

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

**Email**

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

**Contact**

Kate Hardman
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Email precision.medicine@ed.ac.uk
Edinburgh is a great place to live: there is plenty to do in the city, both in terms of social and cultural activities, as well as outdoors. The natural and built environments have a lot of appeal.

**Psychiatry**

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

We have a particular expertise in longitudinal, clinical and biological studies of large cohorts of people, at high risk of psychosis, drawn from across Scotland.

In psychiatric genetics, we take part in international genome wide association studies and focus on analyses of candidate genes including DISC-1, CRHR-4, ERCC3 and NPM3. 3. We also have a major focus on the functional genetics of psychiatric illness and have investigated the effects of variation in genes such as DISC1, associated with the risk of both schizophrenia and bipolar disorder.

We have demonstrated, for the first time, that structural and functional MRI changes can be observed in schizophrenia patients and have shown that the abnormalities are more pronounced in patients with a family history of the disorder. This has implications for the diagnosis and treatment of schizophrenia.

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 linkage and cell specification. The third theme aims 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 service covering derivation and provision of mouse embryonic stem cells, blastocyst injection, morula aggregation and production of defined genetic alterations;
- ultrasonic micro-injection equipment;
- flow cytometry service consisting of four sorts, MoFlo, FACs Jazz and FACs Aria II that are operated by facilty staff and analysers, the LS9 Fortessa and FACs Calibur that can be operated by users after completing mandatory training;
- histology;
- imaging facility including standard microscope, confocal, STED super resolution, high content and timelapse imaging;
- quantitative real-time PCR; and
- Fluidigm Biomark and CellPrep for single cell transcriptomics.

**English language requirements**
See page 54.

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

Contact Andrew McIntosh
Email andrew.mcintosh@ed.ac.uk

**Reproductive Health**

**Research profile**
The MRC Centre for Reproductive Health (CRH) is recognised internationally as a centre of excellence in research and teaching in reproductive sciences, health and medicine. The CRH has arranged its research under three themes:

- the niche in long term germ cell function and tissue regeneration;
- scarless healing; and
- developmental programming by steroids and reproductive resilience.

These themes 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.

The CRH has close links with the University’s Queen’s Medical Research Institute, including the Clinical Department of Obstetrics and Gynaecology and the Simpson’s Centre for Reproductive Health, and with other research centres on the same Edinburgh Royal Infirmary site, and elsewhere within Edinburgh. Many student projects are organised with and between these centres, reflecting the interdisciplinary research environment, where students and trainees are regarded as the ‘lifeblood’ for the future.

**English language requirements**
See page 54.

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

Contact Dean Ainscough
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**Enabling women to have children, following cancer treatments**

Traditionally, female cancer patients who have become infertile after treatment have had limited options, including emergency in vitro fertilisation (IVF). Scientists at the University’s MRC Centre for Reproductive Health and the University’s Queen’s Medical Research Institute, including Professors Richard Anderson, David Baird and Hamish Wallace, have shown that there is an alternative that could ultimately lead to successful conception after completion of chemotherapy and/or radiotherapy. This is profoundly significant to female survivors of cancer therapy who would otherwise face an infertile future.

**Project background**
Each year about 160,000 women in the UK – and many more throughout the world – are diagnosed with cancer. The aim of the project was to research ways in which those who had become infertile after treatment could increase their options for having a child. Calling on their extensive research expertise and the world-class resources of the University, the team led by Professor Anderson, Baird and Wallace developed an innovative procedure, which involved obtaining ovarian tissue via laparoscopy (keyhole surgery) and cryopreserving it (frozen for long term storage). This was introduced into clinical practice for the first time, in collaboration with the Tissue Services Directorate of the Scottish National Blood Transfusion Service, in 1997.

**Project result**
Since then, ovarian cryopreservation, or oncofertility, has become widespread in clinical practice worldwide. Major centres of expertise and national programmes operate in Denmark, Belgium, France, Spain, Germany, the US and Australia. Appropriate fertility preservation is now regarded as standard care in the UK and many other countries. Professors Anderson and Wallace have continued their pioneering work in post-cancer fertility, being instrumental in establishing the International Society for Fertility Preservation in 2009 and, in 2010, a task force for fertility preservation of the European Society for Human Reproduction and Embryology, whose aims are to develop ovarian tissue cryopreservation for much wider access to women across Europe and worldwide.

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

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

**Research profile**
Rehabilitation Studies has considerable expertise in measuring outcomes in the context of disabling disease and has major interests in cardiac, locomotor and neurological disorders and their rehabilitation.

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

Contact Alan Carson
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**Ovarian cryopreservation, or oncofertility, has become widespread in clinical practice worldwide.**
Respiratory Medicine

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

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

**English language requirements**
See page 54.

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

Contact Karen Colvin
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www.ed.ac.uk/pg/223

Science Communication

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

**English language requirements**
See page 54.

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

Contact Damian Mole
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www.ed.ac.uk/pg/884

Tissue Repair

**Research profile**
This is a new PhD programme in an exciting area of research that aims to investigate the basic mechanisms of tissue repair. This information can then be used to find novel cell- or drug based therapies to repair tissue that has been damaged due to disease, trauma or congenital conditions.

The programme is based on Edinburgh’s unique combination of strengths in different disciplines including stem cells and regenerative medicine, immunology and tissue biology together with a wide range of clearly defined tissue and animal model systems. MRC Centres for Regenerative Medicine, Inflammation Research and Reproductive Health, BHF Centre for Cardiovascular Science and the Centre for Neuroregeneration are all involved in this unique multidisciplinary programme.

There is an inevitable loss of the number of people with chronic organ dysfunction, because of disease, trauma or genetic conditions. Current therapeutic approaches are focused on reducing further damage rather than promoting repair. Directed tissue repair either by cell- or drug-based therapies is required to complement existing approaches. However, there are no truly drug-based regenerative therapies in the clinic.

Understanding tissue repair and the development of novel tissue repair therapies requires a broad range of strategies combining different disciplines that will open up new possibilities to understand clinically relevant aspects of tissue repair.

This programme is based on Edinburgh’s unique combination of strengths in different disciplines including stem cells and regenerative medicine, immunology and tissue biology. It is divided into a number of clearly defined tissue and animal model systems. The MRC Centre for Regenerative Medicine, Inflammation Research and Reproductive Health, BHF Centre for Cardiovascular Science and the Centre for Neuroregeneration are involved in this unique multidisciplinary programme.

**English language requirements**
See page 54.

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

Contact Postgraduate Administrator
Email tissuesrepair@ed.ac.uk

www.ed.ac.uk/pg/849

Translational Neuroscience

**Research profile**
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) and analytical tools, with comprehensive knowledge of the clinical brain research environment. By doing so, we intend to equip students with the distinct skills required to bridge the knowledge gap between the design, execution and interpretation of cellular experiments and the challenges of experimental medicine.

During the first year, you will undertake three research projects, each from a different stage of the life-course from development, to adolescence/adulthood, and, finally, old age/degeneration. In parallel you will undertake a bespoke training programme that will partner clinical and basic researchers to deliver a range of tutorials and seminars 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 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 of Edinburgh, from fundamental, clinical, psychological and informatics arenas to provide an outstanding collegiate and dynamic environment in which to undertake cutting-edge research. We are perfectly placed to provide a unique training experience that encourages interaction across disciplines and the life-course.

**English language requirements**
See page 54.

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

Contact Jane Haley
Tel +44 (0)131 650 3522
Email edneuro.phd@ed.ac.uk

www.ed.ac.uk/postgraduate/degrees

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

www.ed.ac.uk/studying/prospectus-request
About Edinburgh Medical School

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

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

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

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

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

Research excellence
Edinburgh Medical School is part of the College of Medicine & Veterinary Medicine. The College’s reputation as one of the world’s leading centres of medical and veterinary medical research was reaffirmed by the Research Excellence Framework (REF) 2014 results. The College’s three submissions to REF were some of the largest REF submissions in the UK. This emphasises the enormous power of the University’s research in human and animal medicine and health. Overall, 84 per cent of our research activity was rated 4*, world leading, or 3*, internationally excellent. Medicine, the University’s largest REF submission, was ranked in the UK top five. Neuroscience was ranked third in the UK, out of a total of 82 submissions, representing a major advance.

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

- Joseph Lister, discoverer of life-saving antiseptic;
- Charles Darwin, world-renowned naturalist and author of On the Origin of Species;
- Sir James Young Simpson, pioneer of chloroform use;
- James Syme, pioneering surgeon;
- Margaret Barry, the first woman to graduate from a British medical school;
- William Gregory, who devised a procedure for crystallising morphine, opening up its use for pain relief;
- Julius Jefferys, inventor of the respirator;
- Alexander Woods, who introduced the hypodermic syringe;
- James Horton, who was one of the first Africans to study medicine in Europe;
- Sir George Beaton, the father of oophorectomy;
- Sir John Crofthon, 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 of Edinburgh 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 distance 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 1,300 online distance learning students from 100 countries around the globe.

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

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

Our Graduate School provides an interdisciplinary, college-wide support network for all postgraduate students and staff. It is home to more than 2,400 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 distance-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 distance-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 School and through cross-School networks such as Edinburgh Neuroscience, Edinburgh Infectious Diseases, and the Edinburgh Immunology Group and by participating in the University-wide Three Minute Thesis competition. You are also encouraged to take part in public engagement events to actively communicate your science outside the University.

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

Joining professional societies can also be beneficial to postgraduate training and allows 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, International Office and the Edinburgh University Students’ Association (EUSA), the independent Advice Place and the Student Counselling Service.

More information: www.ed.ac.uk/students/student-services
Research and teaching environment

Each year we support the training of more than 600 research students and 1,400 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 (the Asthma UK Centre for Applied Research), an MRC University Unit (Human Genetics Unit) and a World Health Organisation (WHO) Collaborating Centre on Population Health Research and Training.

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

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

Institute of Genetics and Molecular Medicine (IGMM)
One of the largest centres worldwide for human genetics and human medicine, the Medical Research Council Institute of Genetics & Molecular Medicine at the University of Edinburgh has more than 500 researchers across seven research centres and one research unit:
• Centre for Genomic and Experimental Medicine
• Edinburgh Cancer Research Centre
• MRC Human Genetics Unit.

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

Our major strategic goal has been to bring together Psychology, Psychiatry and Neuroscience to target our basic and translational research on two of the key challenges for 21st century Neuroscience: how does the human brain develop and function across the lifespan, and how can it be protected and repaired? Edinburgh Neuroscience hosts seven research centres:
• Centre for Cognitive and Neural Systems
• Centre for Clinical Brain Sciences
• Centre for Neurogeneration
• Centre for Integrative Physiology
• The Euan MacDonald Centre for Motor Neurone Disease
• The Muir Maxwell Epilepsy Centre
• The Patrick Wild Centre.

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

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

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

IAD also provides a comprehensive programme of transferable skills training, resources and support for researchers completing a doctorate. The workshop programme is designed to help you successfully prepare for the various milestones of your PhD, from getting started with your research, to writing up and preparing for the viva. Workshops cover topics such as writing skills, reference management tools, statistics, preparing for conferences, delivering presentations, time and project management, and personal development.

IAD also offers online resources and planning tools to help get your research started, plus support for tutoring and demonstrating and research public engagement and communication.

Careers Service

Our Careers Service plays an essential part in your wider student experience at the University, offering world-class 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.

The Service provides specialist support for postgraduate students. From exploring career options to making decisions, from CV writing to interview practice, from employ.ed internships to graduate posts and from careers fairs to postgraduate alumni events, we help you prepare for the future.

We sustain and continually develop links with employers from all industries and employment sectors, from the world’s top recruiters to small enterprises based here in Edinburgh. Our employer team provides a programme of opportunities for you to meet employers on campus and virtually, and advertises a wide range of part-time and graduate jobs.

More information: www.ed.ac.uk/careers/postgrad

Connect.ed

Edinburgh encourages its alumni to stay in touch with current students who share an academic background or are interested in a similar career path. Connect.ed is a networking system run by the Careers Service that provides an informal and confidential opportunity for alumni to share their occupational knowledge and experience with current students, who can contact them for advice and guidance on their future career.

More information: www.ed.ac.uk/careers/connected

Backing bright ideas

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

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

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 research in another leading European university, while gaining new contacts, skills and experience.

The eight EuroLife universities are:

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

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

Typically, EuroLife student exchange visits are for up to six months, to undertake master’s-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 physicians work closely with our leading anthropologists, biomedical scientists, epidemiologists, geographers, health economists, management specialists, mathematicians, political scientists and sociologists. The umbrella of the Global Health Academy also extends outwards to specialists across the globe who wish to lend their expertise to our training, teaching or research for shorter or longer periods.

More information: www.ed.ac.uk/global-health
Applications and fees

We have an online application process for all postgraduate programmes. It’s a straightforward system with full instructions, including details of supporting documentation you need to submit.

When applying, you will set up an account, which lets you save your application if you wish to continue and submit your application at another time. Full guidance on our application system is available at: www.ed.ac.uk/postgraduate/applying

General requirements

Usually a UK 2:1, honours undergraduate degree, or its international equivalent (www.ed.ac.uk/international/graduate-entry), in a subject related to your chosen programme. You will also need to meet the University’s language requirements (see below). Entry requirements for individual programmes can vary, so check the details for the specific programme you wish to apply for.

References

For applications to taught programmes, the normal requirement is one reference, although an additional reference may be requested in individual cases. For applications to research programmes, two references are required. You should check the entry online for exact requirements for your intended programme of study. For general guidance on references, visit: www.ed.ac.uk/postgraduate/references

Deadlines

Online and on-campus taught programmes

The deadline for online distance 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 University’s language requirements for the specific programme. You will also need to meet the University’s language requirements for your intended programme of study. You can start at any time of year – check with the University’s language requirements for the specific programme. You will also need to meet the University’s language requirements for your intended programme of study.

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Biomedical Sciences (Life Sciences), Public Health (including Online Distance Learning), Science

Communication & Public Engagement (including Online Distance Learning), Transfusion, Transplantation & Tissue Banking, and all programmes offered by the Postgraduate Dental Institute

• IELTS Academic: total 7.0 (at least 6.5 in each module).
• TOEFL-IBT: total 100 (at least 23 in each module).
• PTE(A): total 67 (at least 61 in each of the Communicative Skills sections; the Enabling Skills sections are not considered).
• CAE and CPE: total 185 (at least 176 in each module).
• Trinity ISE: ISE III (with a pass in all four components).

Global Health Challenges (Online Distance Learning)

• IELTS: total 7.0 (at least 6.0 in each module).
• TOEFL-IBT: total 100 (at least 20 in each module).
• PTE(A): total 67 (at least 56 in each of the Communicative Skills sections; the Enabling Skills sections are not considered).
• CAE and CPE: total 185 (at least 169 in each module).
• Trinity ISE: ISE III (with a pass in all four components).

Tuition fees

The following table provides an overview of indicative fee levels for programmes commencing in 2017.

<table>
<thead>
<tr>
<th>Programme</th>
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<tbody>
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<td>PhD</td>
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For UK/EU students

EU students enrolling in the 2017/18 academic year – and possibly the following academic year – will be admitted as Scottish/EU fee status students and are eligible for tuition fee support from the Student Awards Agency for Scotland (SAAS).

Future changes to the fee status of EU students enrolling in the 2017/18 academic year will depend on the timing and terms of the UK’s exit from the European Union and would also require changes to existing UK and Scottish legislation. Current indications are that the UK would leave the EU at the earliest in 2019 so any changes would not take effect before the academic year 2019/20.

The University is working with the Scottish Government to try to protect the fee status of EU students enrolling in the 2017/18 academic year for the duration of their course. However there is a risk that EU students enrolling in the 2017/18 academic year may become subject to international tuition fees for any years of study which follow the UK exit from the EU. In those circumstances we are committed to working with the Government to ameliorate the impact of that change for individual students.

The Scottish Government has already confirmed that the fee status of existing students and students enrolling in the 2016/17 academic year will remain unchanged for the duration of their studies.

For international students

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For full-time postgraduate study:

- $19,300–$23,700* for taught programmes
- $5,800* for MPhil
- $7,000* for PhD

For part-time postgraduate study:

- $13,000–$16,200* for taught programmes
- $4,500* for MPhil
- $5,500* for PhD

Tuition fees for EU students

EU students enrolling in the 2017/18 academic year – and possibly the following academic year – will be admitted as Scottish/EU fee status students and are eligible for tuition fee support from the Student Awards Agency for Scotland (SAAS).

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- $13,000–$16,200* for taught programmes
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- $5,500* for PhD

Tuition fees for EU students

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The Scottish Government has already confirmed that the fee status of existing students and students enrolling in the 2016/17 academic year will remain unchanged for the duration of their studies.
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.

**Funding**

A number of partial and full funding scholarships are available to eligible UK and international students. Details of these schemes can be found online by going to www.ed.ac.uk/student-funding/scholarships.

**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
- **College of Medicine & Veterinary Medicine Funded PhDs**
  - The College offers a number of funded PhD programmes every year, including:
    - Welcome Trust 4-year PhD in Translational Neuroscience
    - Welcome Trust 4-year PhD in Tissue Repair
    - MRC Centre for Reproductive Health PhD Scholarship
    - MRC Centre for Regenerative Medicine PhD Scholarship
    - Medical Research Council (MRC) DTP in Precision Medicine
    - EPSRC and MRC Centre for Doctoral Training in Optical Medical Imaging (OPTIMA)
    - BBSRC EASTBIO Doctoral Training Partnership (DTP)

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

- **Colt Foundation Fellowships in Occupational/Environmental Health**
  - The Colt Foundation supports high-quality research projects in the field of occupational and environmental health, particularly those aimed at discovering the cause of illness arising from conditions in the workplace. The Foundation makes a number of grants each year to PhD students who are investigating topics relevant to this field of research: www.ed.ac.uk/student-funding/colt

- **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 Syrian Postgraduate Scholarships**
  - A number of scholarships are available to postgraduate students from Syria studying a full-time one-year masters: www.ed.ac.uk/student-funding/postgraduate/syria

- **International Masters Scholarships for MSc in Science Communication and Public Engagement**
  - We offer five masters scholarships to international (non-EU) students who are currently resident in one of the countries on the Development Assistant Committee (DAC) list of Official Development Assistance (ODA) recipients: www.ed.ac.uk/student-funding/science-communication

- **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

- **Mary Orr Paterson Scholarship**
  - One scholarship will be available for postgraduate study within the College of Medicine & Veterinary Medicine. Citizens from the Czech Republic, Poland, Russia and Slovakia are eligible to apply: www.ed.ac.uk/student-funding/paterson

- **Polish School of Medicine Memorial Fund**
  - This scholarship enables medical scientists, normally medical doctors at the outset of their careers and working in Polish medical universities, to undertake a period of further study or research at the University and return to their home institution in Poland: www.ed.ac.uk/student-funding/polish-medicine

- **The University of Edinburgh PhD Scholarships**
  - A number of these scholarships, open to UK, EU and international PhD students: www.ed.ac.uk/student-funding/postgraduate/philisthesis/PhD

- **Welcome Trust PhD Awards**
  - The Welcome Trust offers studenthips to support applicants studying Translational Neuroscience and Tissue Repair. These studentships cover UK/EU tuition fees and a stipend: www.ednereophrdphd.ed.ac.uk
  - www.tissuerepairphd.ed.ac.uk

**Research council awards**

Research councils award fellowships to masters, PhD and PhD students in most of the Schools within the University of Edinburgh. All student applications from the research councils must be made through the University, through your School or College office. Awards can be made for both taught and research programmes.

- **Irish**
  - Ministry of Higher Education and Scientific Research: www.iraquistatalachte.org.uk

- **Mexico**
  - National Council of Science and Technology of the United Mexican States (CONACYT): www.conacyt.mx
  - 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.fundems.org

**Loans available for study at the University of Edinburgh**

The University of Edinburgh is a participating institution in the following loans programmes, meaning we can certify your student status and can help with the application process.

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

- **Erasmus+**
  - An Erasmus+ loan supports students accepted for a masters programme in an Erasmus+ country. For more information: http://ec.europa.eu/education/opportunities/higher-education/masterloans_en.htm

**Postgraduate Loans (PGL)**

- **England**
  - Eligible students from England, undertaking a taught or research masters can apply to Student Finance England for a loan of up to £10,000 towards fees or maintenance costs: www.gov.uk/postgraduate-loan

- **Postgraduate Loans (SAAS)**
  - Scotland and EU
  - The Student Awards Agency Scotland offers tuition fee loans to eligible students undertaking full- or part-time postgraduate study, for a full list of eligible programmes: www.saas.gov.uk

- **US Student Loans**
  - The University is eligible to certify loan applications for US loan students. Full details on eligibility and how to apply can be found online: www.ed.ac.uk/student-funding/us-loans

**Other sources of funding**

The following are examples of the many scholarships and support schemes available to students from particular countries who meet certain eligibility criteria.

- **Chevening Scholarships**
  - A number of partial and full funding scholarships are available to one-year masters students: www.chevening.i.org.uk

- **Commonwealth Scholarships**
  - Scholarships available to students who are resident in any Commonwealth country, other than the UK: www.fulbright.org.uk/scsch

- **Fulbright Scholarships (USA)**
  - Scholarships open to US graduate students in any subject wishing to study in the UK: www.iie.org/fulbright

- **Marshall Scholarships (USA)**
  - Scholarships available to outstanding US students wishing to study at any UK university for at least two years: www.marshallscholarship.org

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

**Funding for online distance 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

“1 chose Edinburgh because of its complete package. The University allows me to pursue my passion with cutting-edge equipment and facilities, with some of the brightest minds in their field, all within this amazing and beautiful city.”

Jason Weiss, PhD Molecular and Clinical Medicine, Edinburgh Global Research Scholarship

www.ed.ac.uk/medicine-vet-medicine/postgraduate
Campus maps

The College of Medicine & Veterinary Medicine is based at four sites throughout the city of Edinburgh. Many of our teaching and research facilities are located side by side with clinical practice.

Western General Hospital

Edinburgh Dental Institute

Little France

We are here!
Central Area

We are here!
Little France

Easter Bush

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

Little France

01 Queen's Medical Research Institute
02 Clinical Research Imaging Centre
03 Chancellor's Building
04 The Royal Infirmary of Edinburgh
05 Anne Rowling Neurology Clinic
06 Scottish Centre for Regenerative Medicine

Parking

Western General

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

Parking

www.ed.ac.uk/medicine-vet-medicine/postgraduate
Get in touch

Contact us
Tel: +44 (0)131 242 6358/6460/6461/6478/6617
Email: mvmpg@ed.ac.uk
www.ed.ac.uk/medicine-vet-medicine/postgraduate

Explore postgraduate life through our films, e-zines and student blogs.
www.ed.ac.uk/medicine-vet-medicine/postgraduate/postgraduate-life

Join in the conversation on Twitter.
@twitter.com/EdinburghMedVet

Visit us
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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)
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Katy Wiedemann, MA Illustration student

The front cover shows a petri dish containing a sample of the mould that makes penicillin. It was presented to the University by Alexander Fleming to commemorate his time as Rector. Fleming shared the 1945 Nobel Prize, after discovering penicillin’s antibiotic qualities.

The item in this illustration is part of the University’s unique Centre for Research Collections, a rich resource for all our students, staff and the wider community.

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