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

Ian Rankin
Best-selling author and alumnus
Influencing the world since 1583

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

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

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

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

Enhancing your career
We are committed to embedding employability in your University experience and have an impressive track record for graduate employment. From volunteering schemes to our sector leading careers service, we provide you with opportunities to develop your skills, knowledge and experience, giving you an edge in the competitive job market.

TOP 50
We’re consistently ranked one of the top 50 universities in the world. We’re 20th in the 2020 QS World University Rankings.

4TH
We’re ranked fourth in the UK for research power, based on the 2014 Research Excellence Framework.*

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

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

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

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

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

* Times Higher Education, Overall Ranking of Institutions
† Times Higher Education, Global Employability University Ranking 2018
‡ Times Higher Education: The World’s Most International Universities 2019
Online learning programmes

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

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

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

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

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

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

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

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

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

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

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

After completing my programme, I am far more confident challenging poor practice and even more passionate about teaching other practitioners, athletes and coaches in sport about pain.”
Mandy More, MSc Clinical Management of Pain

Anatomical Sciences

PGDip up to 4 yrs PT, PGCert up to 2 yrs PT

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

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

Programme structure
This programme consists of courses that draw on material currently used in the on-campus programmes in human anatomy and our medical programme. Each of the taught courses has a set of modules that are released to students on a sequential basis from our virtual learning environment. Modules may consist of the following structure:

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

CERTIFICATE COURSES PREVIOUSLY OFFERED INCLUDE:
Fundamentals of Human Anatomy 1; Fundamentals of Human Anatomy 2; Embryology; Neuroanatomy.

DIPLOMA COURSES PREVIOUSLY OFFERED INCLUDE:
Advanced Human Anatomy 1; Advanced Human Anatomy 2; Imaging; Histology; Reflections on Professional Practice.

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

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

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

English language requirements
See page 58.

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

Programme Director
Jennifer Paxton
Tel +44 (0)131 651 5250

Applied Medical Image Analysis

PGCert up to 2 yrs PT

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

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

Programme structure
You will complete 60 credits of compulsory taught courses.

COMPULSORY COURSES PREVIOUSLY INCLUDED:
Techniques & Physics; Practical Image Analysis 1; Image Analysis; Practical Image Analysis 2; Common Image Processing Techniques 2.

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

Entry requirements
A UK 2:1 honours degree or its international equivalent (www.ed.ac.uk/international/graduate-entry), in fields such as medicine, geriatrics/medicine of the elderly, and neurosciences.

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

English language requirements
See page 58.

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

Programme Director
Charis Alexakis
Email imaging.msc@ed.ac.uk
**Online learning programmes**

**Biodiversity, Wildlife & Ecosystem Health**

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

Programme structure
The programme is designed using innovative online learning. Our online learning technology is fully interactive and enables you to communicate with our highly qualified teaching staff from the comfort of your own home. Online teaching will involve a mixed teaching approach which includes independent study and reflection as well as online discussion and group work.

**Clinical Education**

Programme description
This programme is designed to provide advanced education in relation to healthcare professionals and veterinary practitioners, including doctors, nurses, dental practitioners, clinical psychologists, occupational therapists, and those with veterinary education or associated scientists (biomedical or social). We will help you reflect upon, and share thoughts about, your practice, while increasing your understanding of how to apply educational theories and evidence from the literature. You will gain the knowledge and skills to deliver, and develop and research high-quality clinical education, and it is your own discipline. For this programme, you will attend NMS Education for Scotland and the University's Global Health Academy and accredited by the Royal Australasian College of Surgeons. After completing the PgCert and meeting qualifying criteria, you will be eligible to apply for Fellowship of the Higher Education Academy and for membership of the Academy of Medical Educators.

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

**Clinical Management of Pain**

Programme description
Through a solid, theoretical understanding of the biological, psychological and social concepts that drive, develop and maintain pain, you will explore the multifaceted nature of pain and its effects. You will gain an advanced understanding of the specialist area of pain management and related disciplines: combined infection training and higher specialty training in an infection discipline. The programme is aligned with RCPITB and RCPahties in training in infection diseases, medicine and dental education. The programme will also provide advanced training and higher specialty training in infectious diseases, medical microbiology and medical virology. It is designed to support trainee/applicants in preparation for FCPahties Part 1 Diplomas in infection, infection specialist care in specialty trainee, and fellowship training in specialty trainee, and hospital-based practice.

**Diploma Courses previously offered include:**
- Principles of Teaching and Learning; Assessment; Examinations; and Standard Setting; The Curriculum.

**Year 1: Certificate courses previously offered include:**
- Principles of Teaching and Learning; Assessment; Examinations; and Standard Setting; The Curriculum.

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

**Career opportunities**
You will gain skills suitable for employment in areas including: research establishments; educational facilities; government or political organisations; charity and welfare organisations; and within industries. A postgraduate qualification will provide additional knowledge to supplement and support an ongoing clinical career.

**Further postgraduate opportunities**
We also offer online postgraduate diploma courses which run for five weeks at a time. These credits will be recognised in their own right at postgraduate level, or may be put towards gaining a higher award, such as a PgCert, PgDip or MSc. You also have the option to take not-for-credit stand-alone courses as Continuous Professional Development or Continuing Medical Education (CPD/CMET).

**Entry requirements**
The programme is designed to provide advanced education in relation to healthcare professionals and veterinary practitioners, including doctors, nurses, dental practitioners, clinical psychologists, occupational therapists, and those with veterinary education or associated scientists (biomedical or social). We will help you reflect upon, and share thoughts about, your practice, while increasing your understanding of how to apply educational theories and evidence from the literature. You will gain the knowledge and skills to deliver, and develop and research high-quality clinical education, and it is your own discipline. This programme is affiliated with NMS Education for Scotland and the University's Global Health Academy and accredited by the Royal Australasian College of Surgeons. After completing the PgCert and meeting qualifying criteria, you will be eligible to apply for Fellowship of the Higher Education Academy and for membership of the Academy of Medical Educators.

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

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

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

Clinical Ophthalmology

Programme description
This programme is a joint offering by the University of Edinburgh and the Royal College of Surgeons of Edinburgh, and leads to the award of Master of Surgery (MSc) in Ophthalmology. It has been developed with the support of the NHS Education for Scotland (NES) and is designed to support advanced ophthalmology trainees in the UK and internationally. You will be taught by experienced trainees – leading clinicians in their fields – and you will have access to well-defined and managed learning resources and educational material, including an unparalleled online library facility. The innovative use of clinical skills and procedures as well as core knowledge and clinical skills.

Programme structure
The programme is delivered over a minimum 10-15 hours study each week in a flexible, modular manner. Compulsory courses covering the sub-specialties in clinical ophthalmology are aligned to the ophthalmology fellowship curricula of the Royal College of Surgeons of Edinburgh (FRCS(Ed)) and the Royal College of Ophthalmologists (FRCOphth).

YEARS 1 COURSES PREVIOUSLY INCLUDED:
- You will study six compulsory courses: Acute Ophthalmology, Trauma and Advanced Ophthalmic Techniques; Basic Science, Examination and Surgical Strategies; Clinical Decision Making, Therapeutics, Avoiding and Managing Complications; Core Ophthalmology: Diagnostics and Technologies in Clinical Practice; Ophthalmology 1.

YEARS 2 COURSES PREVIOUSLY INCLUDED:
- You will study two compulsory courses: Ophthalmology 2, Core Academic Activity (includes research methods and reflective e-portfolio). You will attend an Examination (MCP and EMR) for the taught courses from Years 1 and 2. You will complete a research project for the compulsory Specialist Academic Activity course, which is assessed in stages and includes a final 7,500-10,000 word e-report.

Career opportunities
This programme provides advanced training for medical and surgical ophthalmologists preparing for the fellowship examinations of the RCSEd, RCoPophth and International Ophthalmological Federation and for those approaching consultancy. It will prepare you to integrate academia or research with your own clinical practice, and highlight your commitment to continuing professional development and lend a competitive edge when applying for consultant positions.

Entry requirements
A medical degree (MBChB or equivalent) recognized by the General Medical Council. You should also be based in a supervised training programme. You must have completed initial specialist training (ST 1) or core training (CT 1) and either intermediate training (ST 3) or junior staff grade experience (ST 4). Applicants from outside the UK and applicants who are not in a recognised training programme must demonstrate that the course is directly relevant to their ophthalmic training or practice. You should have completed a minimum of 24 months of core training in the surgical specialties and 18 months of specialty training in ophthalmology before enrolling. We will also consider applications if you are an established, ophthalmologist in independent practice.

English language requirements
See page 58.

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

Clinical Trials

Programme description
This is a part-time programme taught entirely online. It aims to support the demand for appropriately qualified health professionals who will lead clinical trials of all phases. It provides you with the opportunity to select courses relevant to your specialty and area of interest. The programme provides accelerated learning experience which targets the diverse needs of students. The programme will be relevant for those wishing to gain an overall understanding of clinical trials before moving into the field. It is also ideally suited for those with the skills to access and appraise the biomedical literature, allowing you to actively participate in clinical discussions and developments as an independent and critical thinker, able to appraise primary and secondary research and incorporate it into your personal practice.

Programme structure
The programme is delivered using innovative online learning. It involves a mixed teaching approach which includes online lectures and tutorials, independent study and reflection as well as online discussion and group project work and other e-learning activities to engage with and get the most from the course materials. You will be supported as an active member of a vibrant online community where clearly defined learning outcomes are facilitated by tasks and materials that foster active, relevant and collaborative learning, supported by the purposeful use of digital media and online technology.

YEARS 1 COURSES PREVIOUSLY INCLUDED:
- Clinical Trials Foundation Course: Introduction to Clinical Trials; Good Clinical Practice, Ethics and Regulatory Issues.

YEARS 2 COURSES PREVIOUSLY INCLUDED:
- Principles of Clinical Trial Management; Clinical Trials in Special Populations: Patient and Public Involvement; Pharmacovigilance; Study Designs; Monitoring and Audits; Translational Pharmacology; Health Economics.

YEARS 3 COURSES PREVIOUSLY INCLUDED:
- Clinical Trials Dissertation

Career opportunities
The programme aims to equip you with the necessary knowledge and skills to be a leader of clinical trials, supplementing and extending any undergraduate training in the workplace. The programme will also provide an important step towards gaining employment in either the commercial or non-commercial/industrial sectors. Potential career opportunities include trial and data management, statistics, regulation of clinical trials, clinical research, quality assurance and medical writing. The programme is designed to highlight your commitment to continual professional development and will ensure a competitive edge when applying for future employment positions.

Entry requirements
A UK 2:1 honours degree, or its international equivalent (www.ed.ac.uk/ international/graduate-entry), in medicine (MBChB or equivalent) or a related science (e.g. nursing, biological or life science). 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 of experience of working with critically ill patients for a period of more than three months.

English language requirements
See page 58.

Programme Director
Professor Stuart Raikin
Programme Director
Michelle Evans
Email smc$t@ed.ac.uk

Critical Care

Programme description
This programme is designed for healthcare professionals who encounter critically ill adults in their daily practice, such as nurses, doctors in training (ST 1/2) or core training (CT 1/2) and early intermediate training (ST 3). It will provide you with the skills and knowledge required to provide compassionate and evidence-based care that can easily be applied in clinical practice. You will also be able to critically appraise the biomedical literature, allowing you to actively participate in clinical discussions and developments as an independent and critical thinker, able to appraise primary and secondary research and incorporate it into your personal practice.

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

YEARS 1 CERTIFICATE COURSES INCLUDE:
- You will study: Fundamentals of Critical Care; Unlocking the Literature: Clinical Trials; Core Clinical Practice in Critical Care; Trauma, Toxicology, and Temperature; Sepsis and Infection. You will also choose either Human Factors in Critical Care or Principles of Quality Improvement in Healthcare.

YEARS 2 DIPLOMA COURSES INCLUDE:
- You will study: Unlocking the Literature: Non-interventional Studies; Understanding Disease Mechanisms to Provide Optimal Organ Support; Unlocking the Literature: Evidence to Practice; Neurological Critical Care. You will be able to select one of two options to customise your programme.

YEARS 3 MASTERS COURSES INCLUDE:
- You will complete a masters dissertation in the form of a project report on a piece of original clinical research, a systematic review, the development of a substantial clinical guideline, a quality improvement project, or a report demonstrating practice change.

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

Entry requirements
A UK 2.1 honours degree, or its international equivalent (www.ed.ac.uk/ international/graduate-entry), in medicine (MBChB or equivalent) or a related science (e.g. nursing, biological or life science). 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 of experience of working with critically ill patients for a period of more than three months.

English language requirements
See page 58.

Programme Director
Dr Heather Ellis
Programme Directors
Michelle Evans
Email olga@med.ed.ac.uk

Dental Sedation & Anxiety Management

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

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

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

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

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

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

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

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

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

English language requirements
See page 58.

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

Programme Contact
Julie Burke
Tel +44 (0)131 651 4922
Email epdi@ed.ac.uk

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

Programme Description
Online learning programmes

www.ed.ac.uk/pg/860

www.ed.ac.uk/pg/809

www.ed.ac.uk/pg/975

www.ed.ac.uk/pg/958
Online learning programmes

Family Medicine

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

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

Programme structure
There are three compulsory years in Courses 1 to 2 and of the programme. This is followed by a project year, which includes a preparatory course in research methods. We deliver lectures and tutorials online and you will be expected to use self-directed learning, peer discussion boards, tutorials, and other similar e-learning activities to help engage with and get the most from the course materials.

YEAR 1: CERTIFICATE COURSES PREVIOUSLY OFFERED INCLUDE:
- Foundations of Family Medicine
- Applied Principles of Family Medicine
- Primary Healthcare

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

YEAR 3: MASTERS COURSES PREVIOUSLY OFFERED INCLUDE:
- Family Medicine Specialisation
- Family Medicine Project

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

Ijeoma A Azodo, ChM in General Surgery

Programme Administrator Jane Dumayne
Email family.medicine@ed.ac.uk

www.ed.ac.uk/pg/870

www.ed.ac.uk/pg/697

www.ed.ac.uk/pg/852

www.ed.ac.uk/pg/413

General Surgery

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

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

YEAR 1 COURSES PREVIOUSLY INCLUDED:
- Emergency Trauma, Critical Care and General Surgery
- Breast
- Endocrine
- Colorectal
- Oesophageo-gastric
- Hepatopancreato bileary

YEAR 2 COURSES PREVIOUSLY INCLUDED:
- Emergency Trauma, Critical Care and General Surgery
- Core Surgical, Specialised Surgical
- Core Surgical, Trauma
- Core Surgical, Endocrine
- Core Surgical, Colorectal
- Core Surgical, Genitourinary

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

COURSES PREVIOUSLY INCLUDED:
- Surgical, Trauma and Critical Care
- Respiratory System
- Upper Gastrointestinal System
- Access to the Programme
- Admission to the Programme
- Entry Requirements
- English Language Requirements
- Fees and Funding

Programme Director Iven Harrison
Email chm.info@ed.ac.uk

www.ed.ac.uk/pg/dip

Global eHealth

Programme description
This programme brings together a diverse community of online learners with trans-disciplinary opportunities to identify, explore and address regional and global health challenges related to infectious diseases.

In the past few decades there has been almost one new disease emerging each year and more than 75 per cent of these diseases derive from zoonotic sources. There is a clear need for investment and research to help us manage these diseases better. This programme aims to address emerging threats posed by infectious diseases in the 21st century by offering you a range of courses focusing on a variety of global health contexts. This is a postgraduate qualification for biomedical, medical, public health, and veterinary personnel with an interest in global health and infectious diseases.

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

Programme structure
This programme is delivered entirely online which allows you to combine work or other responsibilities with gaining a highly regarded qualification. Part-time study allows you to complete an MSc in three years, a PgDip in two years or a PgCert in one year. Postgraduate certificate (PgCert) study does not allow you to complete the MSc.

CERTIFICATE COURSES PREVIOUSLY OFFERED INCLUDE:
- Global Health Fundamentals and Understanding Infectious Diseases
- Consumer and Patient eHealth
- Managing Digital Innovations
- eHealth in the 21st Century: Trends, Capabilities and Challenges
- Public Health Informatics
- Medical Informatics (Health Data Science)
- Consumer and Patient eHealth
- Managing Digital Innovations
- eHealth in the 21st Century: Trends, Capabilities and Challenges
- Public Health Informatics
- Medical Informatics (Health Data Science)

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

MASTERS
- You will complete a written reflective essay of 10,000-15,000 words.
- Career opportunities

A number of students have also raised their academic profile through the publication and dissemination of their final year research. Career opportunities

www.ed.ac.uk/pg/cert

The University of Edinburgh

Medicine & Biomedical Sciences Postgraduate Opportunities 2020

Key FT: Full time; PT: Part time.

www.ed.ac.uk/pg/cert

www.ed.ac.uk/pg/dip

www.ed.ac.uk/pg/697
Global Health Studies

Programme description
This programme is designed to be the central point to equip those already working in global health and development, or those planning to work in international and national health agencies, with the tools, knowledge and skills to engage with complex problems related to equity 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 global health journalism, or those who work in international business in the health and social care fields, or in corporate social responsibility and sustainability.

The programme will use the particular expertise that the University and its global partners offer in global health, including its medical, nursing and biomedical excellence, and its strengths in political and social science. You will develop an understanding of the processes and procedures by which the global health agenda is shaped. You will also gain the analytical and conceptual skills necessary to critically evaluate the nature of global health issues and to understand the interconnectedness of health with social, environmental, psychological and economic determinants. This programme is affiliated with the University’s Global Health Academy www.ed.ac.uk/global-health

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

Certificate courses previously offered include:
Global Health Challenges: an introduction Evaluation of Global Health and Development Programmes; Maternal and Child Health

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

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

English language requirements
See page 58.

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

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

Global Health Studies

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

Career opportunities
We value interdisciplinary debate on our courses and effective, professional communication skills form an important part of the outcomes of the programme. Graduates can use their qualification to enhance their career prospects in international and national organisations, NGOs, bilateral and Multilateral organisations, and to pursue careers in academic, policy-related, health and development and aid organisations and consultancies.

Certificate courses previously offered include:
Global Health Challenges: an introduction; Evaluation of Global Health and Development Programmes; Maternal and Child Health

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

English language requirements
See page 58.

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

Programme Director Kim Piccozzi
Email globalhealthstudies@ed.ac.uk

Imaging

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

Programme structure
CERTIFICATE COURSES PREVIOUSLY OFFERED INCLUDE:
- You will complete the compulsory courses: Techniques & Physics and Practicacies & Safety. You will also complete two courses from the following options: Applications in Nuclear Medicine; Clinical Applications; Image Interpretation & Evaluation.

DIPLOMA COURSES PREVIOUSLY OFFERED INCLUDE:
- You will complete the compulsory courses: Statistics and Study Design. You will also complete four courses from the following options: Biological Imaging; Light Microscopy; Preclinical Imaging; Neuroanatomy; Body Anatomy; Translational Imaging; Cardiovascular Imaging.

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

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

Postgraduate professional development
If you are looking for a longer course option, we offer online credit-bearing postgraduate courses in preclinical to diagnostic imaging. You will complete the course and upon completion can lead to a University of Edinburgh postgraduate award of academic credit. You may take a maximum of 50 credits worth of courses through our postgraduate professional development scheme. These credits will be recognised in their own right at postgraduate level, or may be put towards gaining a higher award, such as a postgraduate certificate, postgraduate diploma or MSc.

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

English language requirements
See page 58.

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

Programme 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, investigations 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.

Optional courses previously offered include:
- Cardiology; Dermatology; Neurology; Clinical Genetics; Translational Medicine; Clinical Education and Teaching; Medical Ethics; Palliative Care and 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 (MBCh or equivalent) or a UK 2:1 honours degree, or its international equivalent (www.ed.ac.uk/international/graduate), in a clinically relevant subject. You must have work experience in a clinical context. We may also consider your application if you have other relevant work experience; please contact us to check before you apply. You may be admitted to certificate level only in the first instance.

English language requirements
See page 58.

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

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

Key FT: Full time, PT: Part time.
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 and animal health workers are often ill-equipped to deal with this risk. Building on a solid foundation of biological, immunological, pathological and epidemiological principles, this programme will equip you with the skills needed to identify, control and manage animal diseases and the expertise to tackle the international animal health challenges of the 21st Century.

This programme is affiliated with the University’s Global Health Academy.

www.ed.ac.uk/global-health

Programme structure
You may study for postgraduate research for a PhD or an MSc, or either of the postgraduate diplomas. You may also choose to study for a postgraduate certificate.

Key FT: Full time; PT: Part time.

Programmes offered:

Online learning programmes

International Animal Health
MSc up to 6 yrs PT, PgDip up to 4 yrs PT, PgCert up to 2 yrs PT, PgDipDevE up to 2 yr PT

Programme description
Livestock are vital to the lives of millions of people, but endemic and epidemic diseases that affect livestock limit productivity and exacerbate poverty. The diseases that can be transmitted between animals and people also threaten the health of livestock keepers, their families and their communities.

In many developing regions and animal health workers are often ill-equipped to deal with this risk. Building on a solid foundation of biological, immunological, pathological and epidemiological principles, this programme will equip you with the skills needed to identify, control and manage animal diseases and the expertise to tackle the international animal health challenges of the 21st Century.

This programme is affiliated with the University’s Global Health Academy.

www.ed.ac.uk/global-health

Programme structure
You may study for postgraduate certificate or diploma or MSc level.

Programme courses previously offered include:
Pathogen Strategies for Transmission and Survival; Most Important to Infection; Applied Veterinary Epidemiology.

DIPLOMA COURSES PREVIOUSLY OFFERED INCLUDE:
You will study Zoonotic Disease and either Surveillance and Control or Transboundary Diseases Affecting International Trade or An Introduction to Transboundary Diseases and their Impact on Trade and Wildlife Populations. You will then choose a selection of courses from the following options: The Art and Science of Animal Reproductive Technologies in Threatened Species; The Modern Zoo: An Introduction to Project Cycle Management; Globalisation and Health; Zoonotic Diseases in a Global Setting; Control of Economic and Important Parasites: New Developments in Epidemiology and the Control of Vector-borne Disease; Wildlife Animal Health and Environment; Technology Advances in Veterinary Diagnostics; Project Planning and Decision Support for Animal Disease Control; Introduction to GIS and Spatial Data Analysis; Advanced GIS for Virology and Epidemiology and Modelling; Pasteurisation and Hurd Nutrition; Socioeconomic Principles for One Health; An Introduction to Vaccinology.

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

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

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

English language requirements
See page 58.

Fees and funding
See page 58 and for funding information see page 60.

Programme Director
Ewan MacLeod
Email lab.onlinems@ed.ac.uk

Neuroimaging for Research
MSc up to 6 yrs PT, PgDip up to 4 yrs PT, PgCert up to 2 yrs PT, PgDipDevE up to 2 yr PT

Programme description
Neuroimaging research techniques are now in demand from expanding areas of research, including health and medicine, neuroscience and psychology, 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 with clinical decision making and rural practitioners without paediatric support.

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

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

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

CERTIFICATE COURSES PREVIOUSLY OFFERED INCLUDE:
Techniques and Physics; Applications in Disease; Common Image Processing Techniques; Practicalities and Safety.

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

MASTERS:
You will complete practical work and assessments.

Career opportunities
This is an ideal programme to help you in your neuroimaging research based career, giving you advanced and well-recognised expertise in the field. Postgraduate Professional Development
If you are looking for a shorter course option, we offer online certificate courses which run for 11 weeks at a time. These lead to a University of Edinburgh postgraduate award of academic credit. You may achieve a maximum of 50 credits worth of courses through our Postgraduate Professional Development course.

Entry requirements
A UK 2:1 honours degree, or its international equivalent (www.ed.ac.uk/internationalgraduate-entry), in veterinary medicine, radiology/radiography, radiology, nursing, biological sciences, biomedical sciences, pharmacology, chemistry, physics, engineering, image analysis, image processing, computer science, informatics, and neuroscience. You must be in your third or fourth year of your veterinary degree, have a minimum of two years work experience and have a stated interest in research. Please contact us to check before you apply.

English language requirements
See page 58.

Fees and funding
See page 58 and for funding information see page 60.

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

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

Programme description
This programme is aimed at high calibre graduates in medicine involved in the management of clinical emergencies in children. It is ideal for trainers of paediatric 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 with clinical decision making and rural practitioners without paediatric support.

The programme will draw on teaching materials from a global network of enthusiasts.

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

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

CERTIFICATE COURSES PROPOSED INCLUDE:
Introduction to Healthcare Delivery and What Leads to Harm; Clinical Human Factors and Ergonomics in Healthcare; Individual and Team Skills.

DIPLOMA COURSES PROPOSED INCLUDE:
Learning from Current Practice and Governance; Training for Safety; Quality Improvement for Safe Practice.

MASTERs
Dissertation and independent improvement project.

Entry requirements
A medical degree (MBChB or equivalent) plus one year of postgraduate clinical experience, e.g. FY1 in UK, or equivalent elsewhere. You must have an ongoing commitment to the clinical care of children and be an active member of a ward or children’s emergency team. You must be in your second or third year of your medical training, have a minimum of three years’ work experience in a clinical area, and be a member of the Royal College of Paediatrics and Child Health. We may also consider your application if you have relevant work experience. Experience working in a related scientific area, for example hospital or primary care (preferably based around patient safety, quality improvement research) for three or more years.

Fees and funding
See page 58.

English language requirements
See page 58.

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

Patient Safety & Clinical Human Factors
MSc/PgDip/PgCert 3 yrs, 2 yrs or 1 yr PT

Programme description
This programme is aimed at graduates with a background in patient safety and quality improvement research.

You will be introduced to a range of analytical, theoretical and practical tools for research and methodologies. In your final year you will submit a project outline, including abstract submission with poster preparation, and complete your dissertation.

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

CERTIFICATE COURSES PROPOSED INCLUDE:
Introduction to Healthcare Delivery and What Leads to Harm; Clinical Human Factors and Ergonomics in Healthcare; Individual and Team Skills.

DIPLOMA COURSES PROPOSED INCLUDE:
Learning from Current Practice and Governance; Training for Safety; Quality Improvement for Safe Practice.

Masters
Dissertation and independent improvement project.

Entry requirements
A medical degree (MBChB or equivalent) plus one year of postgraduate clinical experience, e.g. FY1 in UK, or equivalent elsewhere. You must have an ongoing commitment to the clinical care of children and be an active member of a ward or children’s emergency team. You must be in your second or third year of your medical training, have a minimum of three years’ work experience in a clinical area, and be a member of the Royal College of Paediatrics and Child Health. We may also consider your application if you have relevant work experience. Experience working in a related scientific area, for example hospital or primary care (preferably based around patient safety, quality improvement research) for three or more years.

Fees and funding
See page 58.

English language requirements
See page 58.

Fees and funding
See page 58 and for funding information see page 60.

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

www.ed.ac.uk/pg/667

www.ed.ac.uk/pg/962

www.ed.ac.uk/pg/241

www.ed.ac.uk/pg/234
Online learning programmes

Primary Care Ophthalmology

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

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

Key PT: Full time; PT: Part time.

Programme description
This programme provides masters-level education for primary care clinicians, with a particular emphasis on restorative dentistry. It is designed to meet the needs of healthcare professionals from all over the world. The programme develops your ability to take an evidence-based approach to clinical practice and to assess and provide quality restorative dental care.

Programme structure
Each course will run over a period of five or 10 weeks with participation in online discussions and completion of tasks being a compulsory part of the process. The programme is supported by a virtual learning environment and all the educational material is available online. Maintenance of a portfolio of evidence is an essential component of assessment. You are strongly encouraged to include a reflective element and to maintain a personal journal. There is a significant commitment of time required to complete this course and you will be required to take part in weekly tutorials and discussions. It is estimated that 15–20 hours a week of clinical time and personal study will be required.

YEAR 1: CERTIFICATE AND YEAR 2: DIPLOMA COURSES PREVIOUSLY OFFERED INCLUDE: Assessment & Management of Occlusion; Introduction to Clinical Evidence; Introduction to Dental Clinical Photography; Endodontics; Indirect Restorations; Oral Health Assessment & Diagnosis; Periodontal Management; Prevention & Management of Dental Caries; Restoration of Missing Teeth; Treatment Planning.

YEAR 3: MASTERS
You will complete a research project and carry out clinical case reports.

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

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

Entry requirements
A UK 2:1 honours degree, or its international equivalent (www.ed.ac.uk/international/graduate-entry), in fields such as medicine, veterinary medicine, radiology, radiography, radiotherapy, nursing, biological sciences, biomedical sciences, pharmacology, chemistry, physics, engineering, image analysis, image processing, computer science, informatics, neurology, neuropsychiatry, psychiatry, psychology, stroke medicine, geriatrics,medicine of the elderly, or neurosciences. We may also consider your application if you have a minimum of three years’ work experience in a related scientific area, e.g. in hospital or research laboratories. Please contact us to check before you apply.

English language requirements
See page 58.

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

Programme Director
Dr Donagh Lawrie
Email msc.restorative@ed.ac.uk

Restorative Dentistry

Certificate in Ophthalmic Science

The University of Edinburgh
Medicine & Biomedical Sciences Postgraduate Opportunities 2020

www.ed.ac.uk/pg/789
Science Communication & Public Engagement

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

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

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

Programme structure

YEAR 1: CERTIFICATE COURSES PREVIOUSLY OFFERED INCLUDE:
Introduction to Science Communication and Public Engagement; Science and Society A; Science and Society B; Principles and Practice in Public Engagement with Science; Science Education; The Role of Social Media in Science Communication.

YEAR 2: DIPLOMA COURSES PREVIOUSLY OFFERED INCLUDE:
Dialogue for Science Communication and Public Engagement; Science, Policy and Practice; Science and the Media; Museum Exhibitions; Interpretation and Informal learning; Creative Arts in Science Engagement; Principles and Practice in Public Engagement 2.

YEAR 3: MASTERS COURSES PREVIOUSLY OFFERED INCLUDE:
Science Communication and Public Engagement Dissertation. The masters dissertation can be a research or practical project.

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

These roles can be found in, for example, higher education institutions, research centres, museums, science centres, learned societies and consultancies for democratic decision making. Examples of specific roles include communicating science in a democratic decision-making role, in policy and science communication, in science education, in science journalism, and in science writing.

Entry requirements
A 2:1 honours degree, or its international equivalent.

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

www.ed.ac.uk/pg/819

Stem Cells & Translational Neurology

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

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

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

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

MASTERS COURSES PREVIOUSLY OFFERED INCLUDE:
You will explore a specialist area of stem cells, regeneration and transnational neuroscience. Short, focused, credit-bearing courses provide specific training through a modular manner. Knowledge and understanding will be assessed in Year 2 through a comprehensive examination and in Year 3 through an MSc thesis. This online programme is jointly offered by the University and the Royal College of Surgeons of Edinburgh. It covers the UK Intercollegiate Surgical Curriculum.

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

Programme structure
Delivered through an online learning environment, students accumulate credits through a series of courses leading to a Postgraduate Certificate (PgCert), Postgraduate Diploma (PgDip) or MSc. At PgCert and PgDip levels, you must attend an end-of-year examination, held in a pre-approved local examination centre.

YEAR 1 COURSES PREVIOUSLY OFFERED INCLUDE:
Cardiorespiratory Science; Endocrine, Breast and Cell Biology; Gastrointestinal Surgery; Urology and ENT; OMS; Limb Salvage.

YEAR 2 COURSES PREVIOUSLY OFFERED INCLUDE:
Pre-operative Assessment and Peri-operative Care; Surgical and Communication Skills; Principles of Surgical Management; Critical Care and Trauma; Academic Surgery.

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

Career opportunities
All of our students are in full time surgical training posts during their study. The CCM programme is designed to follow the FRCS curricula and prepare the advanced trainee for their exit professional examinations. The award of ChM will highlight your commitment to continuing professional development and will ensure a competitive edge for those approaching consultancy.

Entry requirements
You must hold a medical degree (MBChB or equivalent) recognised by the General Medical Council and would normally have acquired your MRCS (or equivalent assessment milestone) and be an advanced trainee in trauma and orthopaedics (ST 5/6 or equivalent). English language requirements
See page 58.

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

www.ed.ac.uk/pg/404

Surgical Sciences

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

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

YEAR 1 COURSES PREVIOUSLY OFFERED INCLUDE:
Basic Science 1 & 2; Adult Reconstruction; Shoulder & Elbow; Hand; Spine; Hip; Knee; Ankle & Foot; Paediatric.

YEAR 2 COURSES PREVIOUSLY OFFERED INCLUDE:
Basic Science; Core Academic Activity (Research Methodology; Study Design and Reflective practice); Specialist Academic Activity (Research Project); MCQ Examination.

Career opportunities
All of our students are in full time surgical training posts during their study. The CCM programme is designed to follow the FRCS curricula and prepare the advanced trainee for their exit professional examinations. The award of ChM will highlight your commitment to continuing professional development and will ensure a competitive edge for those approaching consultancy.

Entry requirements
You must hold a medical degree (MBChB or equivalent) recognised by the General Medical Council and would normally have acquired your MRCS (or equivalent assessment milestone) and be an advanced trainee in trauma and orthopaedics (ST 5/6 or equivalent). English language requirements
See page 58.

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

www.ed.ac.uk/pg/791

Trauma & Orthopaedics

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

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

YEAR 1 COURSES PREVIOUSLY OFFERED INCLUDE:
Basic Science 1 & 2; Adult Reconstruction; Shoulder & Elbow; Hand; Spine; Hip; Knee; Ankle & Foot; Paediatric.

YEAR 2 COURSES PREVIOUSLY OFFERED INCLUDE:
Basic Science; Core Academic Activity (Research Methodology; Study Design and Reflective practice); Specialist Academic Activity (Research Project); MCQ Examination.

Career opportunities
All of our students are in full time surgical training posts during their study. The CCM programme is designed to follow the FRCS curricula and prepare the advanced trainee for their exit professional examinations. The award of ChM will highlight your commitment to continuing professional development and will ensure a competitive edge for those approaching consultancy.

Entry requirements
You must hold a medical degree (MBChB or equivalent) recognised by the General Medical Council and would normally have acquired your MRCS (or equivalent assessment milestone) and be an advanced trainee in trauma and orthopaedics (ST 5/6 or equivalent). English language requirements
See page 58.

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

www.ed.ac.uk/pg/791
Programme description

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

Programme structure

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

Career opportunities

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

Entry requirements

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

English language requirements

See page 58.

Fees and funding

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

Programme Director

Grant Stewart

Email: chm.info@ed.ac.uk

www.ed.ac.uk/pg/792

Urology

CM2 2-4 yrs PT

Programme description

This programme is offered by the Royal College of Surgeons of Edinburgh and the University, and leads to the award of Master of Surgery (CM2). It runs alongside clinical training and complements in the workplace training. Based on the UK Intercollegiate Surgical curriculum, it offers trainees in urology a chance to study topics relevant to the specialty and supports preparation for final professional exit exams such as FRCS and FEBU. Your study will allow you to improve your evidence-based knowledge and enhance your clinical practice.

Programme structure

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

Career opportunities

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

Entry requirements

A medical degree (MBChB or equivalent) recognised by the General Medical Council, and you must have acquired your MRCS (or equivalent assessment milestone). UK applicants must be an advanced trainee in urology (UK ST 4) and be based in a supervised surgical training programme at the time of enrolling. Applicants from outside the UK must have completed a minimum of 24 months of basic training in surgery and 18 months of specialty training in urology before enrolling for the CM2. Surgeons who have a consultant or career grade post (or equivalent) in urology are also eligible for entry.

English language requirements

See page 58.

Fees and funding

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

Programme Director

Andy Tambaaya

Email: chm.info@ed.ac.uk

www.ed.ac.uk/pg/808

Vascular & Endovascular Surgery

CM2 2-4 yrs PT

Programme description

This programme is offered by the Royal College of Surgeons of Edinburgh and the University, and leads to the award of Master of Surgery (CM2). It runs alongside clinical training and complements in the workplace training. Based on the UK Intercollegiate Surgical curriculum, it offers trainees in vascular and endovascular surgery a chance to study topics relevant to the specialty and supports preparation for final professional exit exams such as FRCS and FEBVS. Your study will allow you to improve your evidence-based knowledge and enhance your clinical practice.

Programme structure

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

Career opportunities

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

Entry requirements

A medical degree (MBChB or equivalent) recognised by the General Medical Council, and you must have acquired your MRCS (or equivalent assessment milestone). UK applicants must be an advanced trainee in vascular and endovascular surgery (UK ST 3/4) and be based in a supervised surgical training programme at the time of enrolling. Applicants from outside the UK must have completed a minimum of two years of basic training in surgery and two years of specialty training in vascular surgery before enrolling for the CM2. Surgeons who have a consultant or career grade post (or equivalent) in vascular surgery are also eligible for entry.

English language requirements

See page 58.

Fees and funding

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

Programme Director

Andy Tambaaya

Email: chm.info@ed.ac.uk

www.ed.ac.uk/pg/808

Postgraduate professional development

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

Individual courses on many of our online programmes may be taken as academic credits. You may also be eligible to take the Postgraduate Professional Development (PPD) scheme. These credits will be recognised in their own right at postgraduate level, or may be put towards gaining a higher award, such as a postgraduate certificate or diploma, or an MSc. PPD is an excellent choice if you only want to take a single course or if you are unsure about either the commitment required or the experience of studying online.

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

See also...

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

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

Kristina Thompson, MSc Clinical Education (online learning)
On-campus taught masters and masters by research programmes

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

Taught masters

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

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

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

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

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

Masters by research

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

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

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

MSc by Research 1 yr FT

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

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

PROJECT 1 (SEPTEMBER TO MARCH)
Projects previously offered have included those in the research areas of: Cardiovascular Biology; Cell Communication; Genomics & Pathways; Infectious Diseases; Mechanisms of Inflammatory Disease; Reproductive Science; Stem Cells; Tissue Injury and Regenerative Medicine.

PROJECT 2 (APRIL TO AUGUST)
Projects previously offered have included those in the research areas of: Biological Architecture; Biomedical Imaging; Cancer Biology; Genes & Disease; Genomic Technologies; Molecular & Cellular Mechanism of Inflammation; Reproductive Science.

You may also be able to undertake projects in integrative neuroscience or in other areas of biomedical sciences, with the permission of the Programme Director.

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

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

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

English language requirements
See page 58.

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

Programme Director
Paul Le Tissier
Email paul.letissier@ed.ac.uk

Nithya Nair,
MSc by Research Biomedical Sciences

Cardiovascular Biology

MSc by Research 1 yr FT

Programme description
This programme provides broad-based training in biomedical research with a focus on cardiovascular biology. Subject areas are aligned with the themes pursued by researchers within the Centre for Cardiovascular Science and include cardiovascular injury, repair and regeneration; metabolism, obesity and diabetes; hypertension and renal; and cardiometric imaging. You will gain integrated training in the physiology and pathology of the cardiovascular system from both basic and clinical scientists, with opportunities to gain experience in cutting-edge methodologies. Although the majority of your time will be spent conducting laboratory-based research, structured teaching from leading principal investigators is also included within the course to provide a wide-ranging overview of the field.

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

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

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

English language requirements
See page 58.

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

Programme Director
Scott Webster
Email scott.webster@ed.ac.uk

Chloe Gelder, MSc Human Anatomy graduate

Endodontontology

DClinDent 3 yrs FT

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

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

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

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

English language requirements
See page 58.

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

Contact Vasiliki Pothitou
Email pg.dclindent@ed.ac.uk
Human Anatomy

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

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

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

You will have the option to leave after the second semester and, based on your continued progress, you will be recommended to the Programme Director.

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). English language requirement See page 58.

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

MSc by Research 1yr FT

Medical Sciences

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

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

Programme structure
The programme begins with a month of teaching, providing you with an overview of the whole range of techniques used in medical research. In the first two weeks you will attend lectures on subjects ranging from 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 learning around your interests and career goals, you will be able to:

- develop your own research questions and project plan
- choose your specialism right from the start, allowing you to shape
- your learning around your interests and career goals.

Entry requirements
A UK 2:1 honours degree, or its international equivalent (www.ed.ac.uk/international/graduate-entry). English language requirement See page 58.

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

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

MSc by Research 1 yr FT

Neuroscience (Integrative Neuroscience)

PgCert 1 yr PT

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

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

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

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

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

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

Entry requirements
A UK 2:1 honours degree, or its international equivalent (www.ed.ac.uk/international/graduate-entry), in a medical, biomedical or nursing area. We may also consider your application if you have a 2.2 degree and at least three years’ relevant laboratory experience; please contact us to check before you apply.

English language requirements
See page 58.

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

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

MSc by Research 1 yr FT

Molecular Pathology & Genomic Medicine

PgCert 1 yr PT

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

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

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- critically evaluate molecular pathology diagnostics and select the appropriate diagnostic for disease stratification to determine patient treatment;
- analyse next generation sequence data in the context of germline mutations that cause human genetic disease, and somatic mutations involved in cancer;
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Entry requirements
A UK 2:1 honours degree, or its international equivalent (www.ed.ac.uk/international/graduate-entry), in a medical, biomedical or nursing area. We may also consider your application if you have a 2.2 degree and at least three years’ relevant laboratory experience; please contact us to check before you apply.

English language requirements
See page 58.

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

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

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

The University of Edinburgh
Medicine & Biomedical Sciences Postgraduate Opportunities 2020
Orthodontics

DClinDent 3 yrs FT

Programme description

This programme aims to equip you with clinical, technical and diagnostic skills as well as the knowledge and understanding of all aspects of orthodontics. It is suitable for those seeking specialist training in the specialty. Designed for dentists wishing to train as specialists in orthodontics, it is approved as part of the training programme by the Royal College of Surgeons of Edinburgh. Students from outside of the UK and Ireland are not normally given a National Training Number.

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

Programme structure

The programme consists of 13 compulsory courses. Attendance is required on weekdays for 42 weeks each year. You will spend 20 hours a week treating patients supervised by staff, and spend at least one full day in orthodontic clinic per week. The Scotland-wide Orthodontic Programme of lectures, seminars and tutorials takes place every Friday during term time and continues throughout the year.

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

Career opportunities

Successful completion of this programme will stand you in good stead for entry on to a Specialist Register in orthodontics, allowing you to practice as a specialist or to work in private practice. Possession of a National Training Number awarded by the Postgraduate Dental Dean for Scotland, and successful completion of all the programme requirements will allow you to enter the Specialty Membership Examination in Orthodontics (M.Orth) and contribute to the attainment of a Specialist Register in orthodontics, allowing you to practice as a specialist, or to work in private practice.

Entry requirements

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

English language requirements

See page 58.

Fees and funding

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

Programme Director

Niall McGuinness

Email pg.dclindent.ed.ac.uk

Oral Surgery

DClinDent 3 yrs FT

Programme description

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

Programme structure

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

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

Career opportunities

Successful completion of this programme will enable you to extend your knowledge and skills in oral surgery and to develop into an independent practitioner. Possession of a National Training Number awarded by the Postgraduate Dental Dean for Scotland, and successful completion of all the programme requirements will allow you to enter the Specialty Membership Examination in Oral Surgery (M.Orth) and provide equivalent verification from the relevant national authority.

Entry requirements

A primary dental qualification (such as Bachelor of Dental Surgery), or its international equivalent (www.ed.ac.uk/international/graduate-entry), plus at least one year’s post-qualification experience. All successful applicants will be required to join Disclosure Scotland’s Protecting Vulnerable Groups (PVG) Scheme before starting the programme. In addition, all applicants who do not live in the UK, or who have spent more than a year abroad, will need to provide equivalent verification from the relevant national authority.

English language requirements

See page 58.

Fees and funding

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

Programme Director

Julie Burke

Email anna.atuir@ed.ac.uk

Paediatric Dentistry

DClinDent 3 yrs FT

Programme description

This programme allows you to attain a taught professional doctorate in paediatric dentistry. It aims to provide doctoral-level educational opportunities to enable you to develop, consolidate and enhance your range of academic and clinical competencies to enable independent and reflective practice in paediatric dentistry.

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

Programme structure

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

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

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

Career opportunities

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

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

Entry requirements

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

English language requirements

See page 58.

Fees and funding

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

Programme Director

Antonietta Busuttil-Naudi

Email anna.atuir@ed.ac.uk

Prosthodontics

DClinDent 3 yrs FT

Programme description

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

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

Programme structure

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

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

Career opportunities

This programme has been designed to help you specialise in the following areas.

Entry requirements

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

English language requirements

See page 58.

Fees and funding

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

Programme Director

Krish Bhatia

Email pg.dclindent.ed.ac.uk
Public Health

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

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

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

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

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

COMPULSORY COURSES PREVIOUSLY OFFERED INCLUDE:
Introduction to Epidemiology; Introduction to Qualitative Research; Introduction to Statistics; Introduction to Systematic Reviews; Principles of Public Health

OPTION COURSES PREVIOUSLY OFFERED INCLUDE:
Advanced Epidemiology; Communicable Disease Control and Environmental Health; Developing and Evaluating Complex Public Health Interventions; Further Statistics; Genetic Epidemiology; Global Health Epidemiology; Health in All Policies and Health Impact Assessment; Health Promotion; Investing in Global Health and Development; Public Health Ethics; Qualitative Research in Health; Sociology of Health & Illness; Statistical Programming.

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

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

English language requirements
See page 58.

Fees and funding
See page 58 and for funding information see page 60.

Programme Directors
Niall Anderson and Margaret Douglas
Email mph.campus@ed.ac.uk

www.ed.ac.uk/pg/204

Reproductive Sciences

MSc by Research 1 yr FT

Programme description
This programme aims to introduce you to modern molecular and cellular biological research in the field of reproductive sciences, reproductive health and reproductive medicine in a stimulating, challenging and vibrant research atmosphere, at the interface between basic science and clinical care.

Your programme is designed for high-achieving students with biological, clinical, veterinary and veterinary fields. You will become a well-rounded researcher, learning a range of skills such as professional and clinical scientific communication, effective writing, presentation, management, and critical appraisal skills. You will have the opportunity to gain valuable transferable skills which will be beneficial to a wide range of professions.

You will be taught key principles and advanced areas of development and stem cell biology, reproductive medicine, information research and tissue repair by experienced researchers who work across a range of disciplines. You will work with a wide range of collaborators, learning a range of practical biomedical research skills, data interpretation, presentation skills, and critical appraisal skills. Valuable transferable skills will be gained that will be beneficial to a wide range of professions.

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

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

You will attend lectures and seminars by experts from a variety of research backgrounds, key to generating a broad and relevant skill set. You will learn critical thinking and manuscript reviewing skills through journal clubs and discussion groups and you will develop a wide range of transferable skills, such as effective communication and public engagement.

Career opportunities
Graduates from our programme will be well placed to pursue a PhD in biomedical or a career in clinical research, particularly in academia or the healthcare industries. The programme delivers bespoke, well-rounded, cross-disciplinary training that will equip you to work effectively in any discipline you choose to enter.

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

English language requirements
See page 58.

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

Programme Director
Dr Mareike Hoeve
Programme Administrator
Ms Kelly Douglas
Email msr.reproductionrepair@ed.ac.uk

See also...
You may also be interested in masters programmes offered by other departments 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/790

Science Communication & Public Engagement

MSc 1 yr FT

Programme description
This MSc 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 care.

Your programme is designed for high-achieving students with biological, clinical and veterinary fields. You will become a well-rounded researcher, learning a range of skills such as professional and clinical scientific communication, effective writing, presentation, management, and critical appraisal skills. Valuable transferable skills will be gained that will be beneficial to a wide range of professions.

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

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

You will attend lectures and seminars by experts from a variety of research backgrounds, key to generating a broad and relevant skill set. You will learn critical thinking and manuscript reviewing skills through journal clubs and discussion groups and you will develop a wide range of transferable skills, such as effective communication and public engagement.

Career opportunities
Graduates from our programme will be well placed to pursue a PhD in biomedical or a career in clinical research, particularly in academia or the healthcare industries. The programme delivers bespoke, well-rounded, cross-disciplinary training that will equip you to work effectively in any discipline you choose to enter.

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

English language requirements
See page 58.

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

Programme Director
Richard Smith
Email r.smith@ed.ac.uk

www.ed.ac.uk/pg/203

Regenerative Medicine & Tissue Repair

MSc by Research 1 yr FT

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

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

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

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

You will attend lectures and seminars by experts from a variety of research backgrounds, key to generating a broad and relevant skill set. You will learn critical thinking and manuscript reviewing skills through journal clubs and discussion groups and you will develop a wide range of transferable skills, such as effective communication and public engagement.

Career opportunities
Graduates from our programme will be well placed to pursue a PhD in biomedical or a career in clinical research, particularly in academia or the healthcare industries. The programme delivers bespoke, well-rounded, cross-disciplinary training that will equip you to work effectively in any discipline you choose to enter.

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

English language requirements
See page 58.

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

Programme Director
Dr Mareike Hoeve
Programme Administrator
Ms Kelly Douglas
Email msr.reproductionrepair@ed.ac.uk

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

Why is your research important?
Research into SMA has been incredibly successful in the past few years and huge breakthroughs have meant that the first therapies are now beginning to become available for patients. However, it is widely accepted that these therapies can still be improved and the only way to do this is by continuing to increase our understanding of what exactly is causing the symptoms of this disease. Ultimately, I hope that by continuing to increase our knowledge surrounding the breakdown of motor neurons, we can continue to help those affected by this disease and indeed all motor neuron diseases.

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

What are the different types of doctoral study and who are they for?
We offer a number of different models for PhD study, including:
- the traditional 3-year research programme;
- 3.5- and 4-year programmes;
- 1+3 programmes, with an introductory masters by research year followed by the PhD project;
- PhDs with integrated study, in which you take credit bearing courses to complement your research work; and
- studentships with an industrial placement.

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

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

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

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

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

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

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

We offer two types of masters by research (MSc by Research) programme. Those listed in this section are pure research programmes where you will spend 12 months in one lab working on one project. This gives you an excellent grounding in research that can serve as a stepping stone to a PhD. Alternatively we offer MSc by Research programmes that contain a significant taught element (see pages 24-31), allowing you to study two 20-week research projects in two different lab environments, and MMedSci by Research Medical Sciences (see page 26) which begins with a month of teaching before you spend the rest of the year in one lab.

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

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

Funded PhD programmes

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

- BBSRC EASTBIO Doctoral Training Partnership (DTP)
- Cancer (Edinburgh Cancer Research Centre)
- Centre for Cardiovascular Science studentships
- EPSRC and MRC Centre for Doctoral Training in Optical Medical Imaging (OPTIMA)
- Medical Research Council (MRC) DTP in Precision Medicine
- MRC Centre for Reproductive Health
- MRC Human Genetics Unit
- Wellcome Trust 3-year PhD in Tissue Repair
- Wellcome Trust 4-year PhD in Translational Neuroscience

For further information, see: edin.ac/2mvm-funded-phds

Additional funding opportunities

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

Entry requirements

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

Anatomical Sciences (Biomedical Sciences)

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

Research profile

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

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

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

English language requirements

See page 58.

Fees and funding

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

Contact

Postgraduate secretary
Email sbms-postgraduate@ed.ac.uk

www.ed.ac.uk/pg/990

BBSRC EASTBIO Doctoral Training Partnership

PhD 4 yrs FT

Research profile

The EASTBIO programme covers training linked to research skills, core bioscience and transferable skills, as well as the Professional Internships for PhD Students (PIPS) scheme. EASTBIO DTP provides world-class bioscience doctoral training in four areas of strategic priority: basic bioscience underpinning health (ageing); bioenergy and industrial biotechnology; food security; and world-class bioscience. We offer an excellent programme of collaborative training for PhD students at four of the UK’s leading research intensive universities – Aberdeen, Dundee, Edinburgh and St Andrew.

English language requirements

See page 58.

Fees and funding

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

Contact Maria Filipiakopoulos
Email enquiries@eastscotbiodtp.ac.uk

www.ed.ac.uk/pg/237

Cancer (Edinburgh Cancer Research Centre)

PhD 3-4 yrs FT (6 yrs PT available for UK/EU students)

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

Research profile

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

English language requirements

See page 58.

Fees and funding

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

Contact Professor Valerie Brunton
Email student-admin@mgm.ed.ac.uk

www.ed.ac.uk/pg/208

Cardiovascular Science

PhD 3-4 yrs FT (6 yrs PT available for UK/EU students)

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

Research profile

The Centre for Cardiovascular Science aims to foster and deliver research into the causes, consequences and therapy of cardiovascular diseases. We offer postgraduate students the opportunity to work within internationally-leading research programmes addressing fundamental development and control of the cardiovascular system and the origins and consequences of cardiovascular disease.

Major research efforts are directed at the metabolic syndrome and risk factors for cardiovascular disease, mechanisms of atheromatous plaque formation and disruption, prenatal programming of cardiovascular disease, renal dysfunction and hypertension, mechanisms of endothelial dysfunction, cirrhotic biology and cell biology.

English language requirements

See page 58.

Fees and funding

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

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

www.ed.ac.uk/pg/209

Child Life & Health

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

Research profile

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

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

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

English language requirements

See page 58.

Fees and funding

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

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

www.ed.ac.uk/pg/208
Clinical Brain Sciences

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

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

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

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

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

We offer a transferable skills programme and project-specific courses.

Contact Derek Jones
Email derek.jones@ed.ac.uk

Clinical Education

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

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

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

Our particular interests are:

• assessment; and
• postgraduate learning and teaching.

We also have methodological expertise in qualitative approaches and psychometrics. We enjoy good collaboration between university faculty, clinicians, NHS Education for Scotland and other institutions.

Entry requirements
A master’s 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.

Contact Jackie McCurk
Email epdi@ed.ac.uk

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

Contact Programme administrator
Email ccbs.phd@ed.ac.uk

Dentistry (PhD)

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

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

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

English language requirements
See page 58.

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

Contact Jackie McCurk
Email epdi@ed.ac.uk

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

Contact Programme administrator
Email ccbs.phd@ed.ac.uk

Doctor of Dental Surgery

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

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

Edinburgh Dental Institute (EDI) works in partnership with two major organisations to deliver high-quality education, research and patient care. The activities of EDI are as a result of strong cooperation and collaboration between the University of Edinburgh, NHS Lothian, and NHS Education for Scotland.

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

Facilities
The EDI was established in 1999 to develop education opportunities for dental postgraduates and the dental team. We have excellent facilities and are situated centrally within the historic and vibrant capital of Scotland.

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

Entry requirements
You must:

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

English language requirements
See page 58.

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

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

The University of Edinburgh
Medicine & Biomedical Sciences Postgraduate Opportunities 2020

www.ed.ac.uk/pg/235

www.ed.ac.uk/pg/861

www.ed.ac.uk/pg/211

www.ed.ac.uk/pg/889

www.ed.ac.uk/clinical-brain-sciences

www.ed.ac.uk/pg/60

www.ed.ac.uk/international/graduate-entry

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

Tim Wilkinson, PhD Clinical Brain Sciences

Key FT: Full time. PT: Part time.
Doctor of Medicine

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

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

Entry requirements
A UK 2:1 honours degree, or its international equivalent (www.ed.ac.uk/international/graduate-entry), and a qualification that can be registered with the General Medical Council. You should also have at least one year of experience in scientific work bearing directly on your profession, or in the practice of medicine or surgery. You will work in the south east of Scotland, either employed by the University of Edinburgh or by south east of Scotland NHS, or be a research worker employed, self-financed or grant-funded at the University of Edinburgh, an associated institution or an NHS establishment.

English language requirements
See page 58.

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

Contact PG Admissions
Email mmvpg@ed.ac.uk

Genetics & Molecular Medicine (MRC Human Genetics Unit)

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

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

English language requirements
See page 58.

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

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

Genomics & Experimental Medicine

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

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

English language requirements
See page 58.

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

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

Geriatric Medicine

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

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

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

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

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

English language requirements
See page 58.

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

Contact
Geriatric Medicine
Email geriatricmedicine@ed.ac.uk
Global Health

Research opportunities

This programme offers you the opportunity to work in a multi-disciplinary, 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;
- culture, faith and health; and
- migration and minority ethnic health;
- e-health and tele-medicine;
- social inequalities in health;
- population health;
- global palliative care;
- non-communicable diseases;
- infectious diseases;
- neglected and emerging tropical diseases;
- mapping and measuring the shifting burden of global disease;
- global palliative care;
- culture, faith and health; and
- migration and minority ethnic health.

Programme structure

The learning process centres upon a one-year research project. In addition, you will be expected to attend local research seminars and lectures related to your area of research, and encouraged to attend these events organised by EID and the Global Health Academy more generally. Training in transferable skills is offered by the Institute for Academic Development.

Career opportunities

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

Entry requirements

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

English language requirements

See page 58.

Fees and funding

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

Programme Director Kim Picozzi
Email kim.picozzi@ed.ac.uk

Infectious Diseases

MSc by Research 1 yr FT

Programme description

This programme offers research opportunities from across Edinburgh Infectious Disease (EID), an organisation that brings together 170 research groups and 860 scientists across the spectrum of infectious disease science and clinical medicine at Edinburgh.

Previous students have undertaken projects in the following areas:

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

Programme structure

The learning process centres upon a one-year research project. In addition, you will be expected to attend local research seminars and lectures related to your area of research, and encouraged to attend these events organised by EID and the Global Health Academy more generally. Training in transferable skills is offered by the Institute for Academic Development.

Career opportunities

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

Entry requirements

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

English language requirements

See page 58.

Fees and funding

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

Programme Director Kim Picozzi
Email kim.picozzi@ed.ac.uk

Infection Medicine

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

Programme description

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

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

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

English language requirements

See page 58.

Fees and funding

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

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

Inflammation

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

Programme description

The Centre for Inflammation Research (CIR) was established in 1998. It aims to promote the prevention, diagnosis and treatment of inflammatory diseases through interdisciplinary study of the initiation, regulation and resolution of inflammatory responses and provision of an outstanding environment for research training in the field. CIR investigators aim to characterise and manipulate key control points in inflammation. We focus on inhibiting the initiation of inflammation by blocking immunologically-specific triggers and by modulating cellular and tissue responses to injurious stimuli; finding new approaches to promote beneficial regulation of established inflammatory responses so as to limit tissue injury; and promoting safe resolution of inflammation and restoration of the structure and function of the perturbed tissue.

We have particular interest in inflammatory diseases of the lung and kidney but the principles derived will have ready application to inflammatory responses in the liver, bowel, bone/joint and skin. There is also increasing research in the CIR into the links between inflammation and cancer.

English language requirements

See page 58.

Fees and funding

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

Contact Alexandra Moreira
Email alexandra.moreira@ed.ac.uk
Research opportunities

Email
Contact

For further information please contact Zhejiang University.

this is not a requirement. Applicants will be required to meet additional

A UK 2:1 honours degree, or its international equivalent, in biomedical

Entry requirements

Career opportunities:

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

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

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

Entry requirements

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

For further information please contact Zhejiang University.

Contact Jie Zhou
Email Jie.Zhou127@zju.edu.cn

www.ed.ac.uk/pg/969
Integrative Biomedical Sciences (Based in China)

www.ed.ac.uk/pg/400
Integrative Physiology

www.ed.ac.uk/pg/924
Medical Informatics

www.ed.ac.uk/pg/200
Neuroscience

"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
PHD Neuroscience
Optical Medical Imaging with Healthcare Innovation & Entrepreneurship

Phil 4 yrs FT

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

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

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

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

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

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

We want you to understand and appreciate the innovative leaps you are making and to be able to capitalise on your discoveries.

English language requirements
See page 58.

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

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

Programme Director
Jean O’Donoghue
Email j.odonoghue@ed.ac.uk

Orthopaedic & Trauma Medicine

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

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

English language requirements
See page 58.

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

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

Pathology

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

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

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

English language requirements
See page 58.

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

Contact
Simon Herrington
Email simon.herrington@ed.ac.uk

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

Natalie Courtney, PhD Integrative Physiology
**Precision Medicine**

**PhD 3–4 yrs FT**

**Programme description**

This is a fully funded Medical Research Council (MRC) Doctoral Training Programme (DTP) and is a collaboration between the University of Edinburgh and the University of Glasgow. Precision medicine is an emerging, transformational approach to disease treatment and prevention, focusing on identifying which strategy will be effective for which patients, based on genetic, environmental and lifestyle factors. It integrates evidence from advanced data on myriad clinical samples with the individual genomics, e-record, imaging and other data-rich -omics parameters to enable discovery and tailored therapies. There is a huge unmet need to train a generation of scientists who can excel in state-of-the-art interrogation of genetic and genomic information, developing and utilising analytical methodologies to provide evidence to improve health and wellbeing. We aim to train the next generation of research leaders, expert in informatics-based approaches and biomedical technologies, who are thus able to unravel disease mechanisms and devise new therapies. You will learn to develop quantitative research creativity for use in careers in fast-moving disciplines, as biomedical science embraces new data-rich approaches and biomedical technologies, who are thus able to unravel disease mechanisms and devise new therapies.

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

**English language requirements**

See page 58.

**Fees and funding**

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

**Contact**

Doctoral Training Programme Administrative Officer
Email precision.medicine@ed.ac.uk

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**Psychiatry**

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

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

**Research profile**

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

**English language requirements**

See page 58.

**Fees and funding**

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

**Contact**

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

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**Regenerative Medicine**

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

**Research profile**

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

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

Our research is aimed at developing new treatments for major diseases, including cancer, heart disease and diabetes, degenerative diseases such as multiple sclerosis and Parkinson’s disease, and liver failure. Our work is currently organised into five themes. To promote collaboration across research groups we adopt a flexible approach to these themes with each principal investigator having one or more secondary affiliations. Two themes focus on fundamental research: pluripotency and IPIL, and lineage and cell specification. The other three aim to translate fundamental research discoveries into clinical programmes relevant to brain, blood and liver diseases and to tissue repair.

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

**English language requirements**

See page 58.

**Fees and funding**

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

**Contact**

Kelly Douglas
Email kelly.douglas@ed.ac.uk

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**Reproductive Health**

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

**Research profile**

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

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

The MSc (see page 31) forms an ideal insight in to the PhD, with students undertaking some core teaching and two 20 week research projects, which are performed on a very wide range of research fields within the reproductive sciences.

The CRH is recognised internationally as a centre of excellence in research and teaching in reproductive sciences, health and medicine. In the Research Excellence Framework (REF) 2014, 91 per cent of the University’s research in biological sciences was rated either 4* world leading or 3* internationally excellent in the overall quality profile. The CRH has arranged its research under four themes:

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

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

**English language requirements**

See page 58.

**Fees and funding**

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

**Contact**

Dean Alinscough
Email dean.alinscough@ed.ac.uk
Respiratory Medicine

Research opportunities

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

Email

Contact

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

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

Science Communication/ Public Engagement

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

Programme description

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

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

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

Entry requirements

A UK 2:1 honours degree or above, or its international equivalent (www.ed.ac.uk/international/graduate-entry), in any discipline, plus either an MSc in Science Communication or at least one year's experience of work in science communication (paid or voluntary).

English language requirements

See page 58.

Fees and funding

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

Supervisor

Elizabeth Stevenson

Email e.stevenson@ed.ac.uk

www.ed.ac.uk/pg/884

Tissue Repair

PhD 4 yrs FT

Programme description

This is a prestigious training programme run by the University of Edinburgh and funded by the Wellcome Trust and the College of Medicine and Veterinary Medicine (CMVM). It provides studentships for cutting-edge, cross-disciplinary PhD training that build on the breadth of world-class biomedical research performed within the College. Successful advancement of tissue repair relies on combining expertise from basic to translational research in areas of regenerative medicine, stem cell biology, neurology, reproductive health, inflammation and cardiovascular science. Such a cross-disciplinary approach will underpin the design of novel cell- and drug-based therapies that stimulate repair of tissues damaged due to disease, trauma or congenital conditions. The programme follows a six months/three years/six months format.

Programme structure

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

Studentships

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

English language requirements

See page 58.

Fees and funding

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

Contact

Kelly Douglas, Postgraduate Administrator

Email tissue.repair@ed.ac.uk

www.ed.ac.uk/pg/849

Translational Neuroscience

PhD 4 yrs FT

Programme description

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

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

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

This programme will train non-clinical students to combine cutting-edge experimental technologies (such as cellular, regenerative, computational, genetic, or animal modelling technologies) and analytical tools, with comprehensive knowledge of the clinical brain research environment. By doing so, we intend to equip students with the distinct skills required to bridge the knowledge gap between the design, execution and interpretation of cellular experiments and the challenges of experimental medicine.

Entry requirements

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

English language requirements

See page 58.

Fees and funding

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

Contact Jane Haley

Email jane.haley@ed.ac.uk

See also...

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

www.ed.ac.uk/studying/prospectus-request
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; close collaboration with NHS Lothian hospitals; all major imaging technologies; clinical trials support; and commercialisation training and opportunities. Our ground-breaking technologies; clinical trials support; and commercialisation training and opportunities. Our ground-breaking technologies; clinical trials support; and commercialisation training and opportunities.

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.

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

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

Research excellence
Edinburgh Medical School is part of the College of Medicine & Veterinary Medicine. The College’s reputation as one of the world’s leading centres of medical and veterinary medical research was reaffirmed by the Research Excellence Framework (REF) 2014 results. The College’s three submissions to REF were some of the largest REF submissions in the UK. This emphasises the enormous power of the University’s research in human and animal medicine and health. In clinical medicine, 88 per cent of our research activity was rated 4*, world leading, or 3*, internationally excellent, on the overall quality profile. Clinical medicine was the University’s largest REF submission and was ranked in the UK top five by research power (Research Fortnight REF 2014). In psychology, psychiatry and neuroscience we were ranked fourth in the UK by research power (Research Fortnight REF 2014), out of a total of 82 submissions, representing a major advance.

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

- Lorna Marson, first female president of the British Transplant Society;
- Sarah Tabrizi, who led the fight against Huntington’s Disease;
- Clara Mpanga Munthali, first female Malawian graduate of surgical sciences;
- Lorna Williamson, pioneer of blood stem cell and tissue donation for transplantation;
- Gertrude Herzfeld, Scotland’s first female practising surgeon;
- Joseph Lister, discoverer of life-saving antiseptic;
- Charles Darwin, world-renowned naturalist and author of On the Origin of Species;
- Sir James Young Simpson, pioneer of chloroform use;
- Margaret Illary, the first woman to graduate from a British medical school;
- William Gregory, who devised a procedure for crystallising morphine, opening up its use for pain relief;
- James Horton, who was one of the first Africans to study medicine in Europe;
- Sir George Beatson, the father of oophorectomy;
- Sir John Crofton, who led the team that developed a cure for tuberculosis, the biggest killer of adults in the western world at the time;
- Sir Paul Nurse, who discovered several key regulators of the cell cycle, a breakthrough for which he was awarded the Nobel Prize;
- Sir Robert Edwards, awarded the Nobel Prize in recognition of his role in pioneering in vitro fertilisation or IVF;
- Sir Kenneth Murray, one of the pioneers of DNA sequencing methods and inventor of the first genetically engineered vaccine for hepatitis B;
- Matthew Kaufman, one of the first scientists to culture the embryonic stem cells of mice and cultivate them in a laboratory, paving the way for stem cell research;
- Ian Frazer, who discovered that human papilloma virus (HPV) could develop into cervical and other types of cancer.

Deaneries
Edinburgh Medical School consists of three Deaneries:

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

Global influence
Medical research at the University has an impact in more than 100 countries, including many developing countries, and benefits millions of individuals in areas such as sleeping sickness, childhood pneumonia prevention, reduction in blood transfusions, more effective cardiovascular and liver surgery, ovarian cryopreservation and stroke prevention and management. Our “one medicine, one health” strategy is built upon the integration of research from bench to bedside and from process to population. We are constantly developing global networks and innovative research opportunities with partner institutions. Our suite of practical and clinically appropriate online learning qualifications enables you to train in your own countries to deliver the services so desperately needed by their communities. Edinburgh Medical School has more than 1,000 online learning students from 100 countries around the globe.

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

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

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

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

If you experience difficulties at any time during your studies, you can also access the Student Counselling Service and Edinburgh University Students’ Association, which provides free and confidential guidance to University Students. The University Student Counselling Service and Edinburgh University Students’ Association are just two of the many support services available to you.

Edinburgh Global can offer international students through the Advice Place.

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

If you experience difficulties at any time during your studies, you can also access the Student Counselling Service and Edinburgh University Students’ Association, which provides free and confidential guidance to University Students. The University Student Counselling Service and Edinburgh University Students’ Association are just two of the many support services available to you.

Edinburgh Global can offer international students through the Advice Place.

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

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

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

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**Wellbeing & community**

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

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

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

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

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

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

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

Bérengère Digard, PhD Psychiatry

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Research student community
If you are a research student, you will join an individual research centre within the College. Within each centre there are social and academic opportunities to integrate with the wider postgraduate community, such as seminar series, team building and development exercises at College and University level, or through the University’s Postgraduate Society.

Research students are encouraged to get to know each other and interact through a series of induction activities within their Deanery and through campus-based postgraduate societies.

You are encouraged to interact with the wider University postgraduate community through cross school networks such as Edinburgh Neuroscience, Edinburgh Infectious Diseases and the Edinburgh Immunology Group, and by participating in the University-wide Three Minute Thesis competition.

You are also encouraged to take part in public engagement events to actively communicate your work to an audience outside the University. Networking spaces are vital in the fostering of a strong community and we are fortunate to have excellent communal spaces for this purpose on all our campuses.
Research and teaching environment

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

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

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

PHD Study
The “product” of a PhD programme is the graduate: a skilled, highly-trained individual, who has performed research that is published and who is now in a position to disseminate their knowledge to others. Research students undertake a mixture of research on their own and training. The research student must be independent and capable of learning from the experience of others. Many of our students are located within the Edinburgh Biocentre, a leading global destination for medical research, which are designed to provide a thorough training in a particular discipline area through original investigation and research. Beyond our impressive academic facilities, we also invest in welfare, support, leisure and community facilities that will help you make the most of your time with us.

The University encourages and supports collaborative and interdisciplinary research. Students completing research projects have benefited from state-of-the-art laboratories, facilities and techniques, including: Bioinformatics; Cell culture; Confocal microscopy; Core histology services; Electrophysiology; Flow cytometry; Magnetic Resonance Imaging; Positron Emission Tomography; Real time polymerase chain reaction; Small vessel myography.

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

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

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

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

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

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

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

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

Jose Bernal Moyana, PhD Precision Medicine

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

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

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

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

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

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

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

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

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

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

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

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

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

Careers Service
Our Careers Service plays an essential part in your wider student experience at the University, offering a range of tailored careers and personal development guidance and support. We support you to recognise the wealth of possibilities ahead, while at university and after graduation, helping you explore new avenues, tap into your talents and build your employability with confidence and enthusiasm. We provide high-quality, tailored support to all students. From exploring career options to making decisions, from CV writing to interview practice, from Employ.ed internships to graduate posts and from careers fairs to postgraduate alumni events, we will help you prepare for the future. We sustain and continually develop links with employers from all industries and employment sectors, from the world’s top recruiters to small enterprises based here in Edinburgh. Our employer team provides a programme of opportunities for you to meet employers on campus and virtually, and advertises a wide range of part-time and graduate jobs.

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

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

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

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

Research Highlights

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

This is a small selection of our recent research projects:

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

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

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

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

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

Tools to watch cells eating could aid diagnoses
Scientists in Biomedical Imaging have developed a new imaging technology to visualise what cells eat, which could aid the diagnosis and treatment of diseases such as cancer. Doctors could also use the technology to monitor how patients are responding to treatment, by tracking the molecules that are eaten by healthy and diseased cells. This is an important advance that could improve understanding of the metabolism of diseased cells and one day help develop better therapies.
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 may vary, so check the details for the specific programme you wish to apply for.

References

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

Deadlines

Online and on-campus taught programmes

The deadline for online learning programmes is usually late August but varies from programme to programme. The deadline for on-campus taught masters is 1 August. Programmes with especially high competition for places may have earlier closing dates. Please check online for details.

Research programmes

For many research programmes, you can start at any time of year – check with the particular programme for further information on start dates. College studentships are usually advertised in November, with a January or February deadline, for programmes that will start the following September.

English language requirements

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

Biomedical Sciences (Life Sciences), Public Health (including online learning), Science Communication & Public Engagement (including online learning), and most programmes offered by the Postgraduate Dental Institute

• IELTS Academic: total 7.0 (at least 6.5 in each module).
• TOEFL iBT: total 100 (at least 20 in each module).
• PTE Academic: total 67 at least 56 in each of the Communicative Skills sections; the Enabling Skills sections are not considered.
• CAE and CPE: total 185 (at least 169 in each module).
• Trinity ISE: ISE III (with a pass in all four components).

All other programmes

• IELTS Academic: total 6.5 (at least 6.0 in each module).
• TOEFL iBT: total 92 (at least 20 in each module).
• PTE Academic: total 61 (at least 56 in each of the Communicative Skills sections; the Enabling Skills sections are not considered).
• CAE and CPE: total 176 (at least 169 in each module).
• Trinity ISE: ISE II (with distinctions in all four components).

Please note:

• English language requirements can be affected by government policy so please ensure you visit our degree finder to check the latest requirements for your programme: www.ed.ac.uk/postgraduate/degrees

Dental Sedation & Anxiety Management (online learning) and Endodontology

• IELTS Academic: total 7.0 (at least 6.5 in each module).
• TOEFL iBT: total 92 (at least 20 in each module).
• PTE Academic: total 61 (at least 56 in each of the Communicative Skills sections).
• CAE and CPE: total 176 (at least 169 in each module).
• Trinity ISE: ISE II (with distinctions in all four components).

Global Health Challenges (online learning)

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

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

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

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

Tuition fees

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

Please note:

• International students starting full-time taught programmes of study lasting more than one year will be charged a fixed annual fee.
• All other students on full-time and part-time programmes of study lasting more than one year should be aware that annual fee levels are subject to revision and are typically increased by approximately five per cent per annum. This annual increase should be taken into account when you are applying for a programme.
• In addition to tuition fees, your programme may be subject to an application fee and additional costs. Programmes costs may apply. Please check the latest programme information online.

For UK/EU students

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<td>All MPhil 4-years PT</td>
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Online learning options are individually priced. Please check the degree finder for information on specific programme fees.

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English language requirements can be affected by government policy so please ensure you visit our degree finder to check the latest requirements for your programme: www.ed.ac.uk/postgraduate/degrees

For more information on English language qualifications at the grades specified, please visit www.ed.ac.uk/english-requirements/pg

Information for applicants seeking asylum

For UK/EU students

EU students enrolling in the 2020/21 academic year will be admitted as Scottish/EU fee status students. Taught masters students will be eligible for the same tuition support as Scottish domiciled students from the Student Awards Agency Scotland (SAAS).

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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**

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

The majority of our taught students are self-funded although there are some funding packages available for both on-campus and online learning students. Here we list a selection of potential sources of financial support for postgraduate students applying to the College of Medicine & Veterinary Medicine. This list was correct at the time of printing but please check the full and up-to-date range online (see above).

**University of Edinburgh Alumni Scholarships**

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

**Scholarships at the University of Edinburgh**

- **College of Medicine & Veterinary Medicine Funded PhDs**
  The College offers a number of funded PhD programmes every year, including:
  - Wellcome Trust 4-year PhD in Translational Neuroscience
  - Wellcome Trust 4-year PhD in Tissue Repair
  - Medical Research Council (MRC) DTP in Precision Medicine
  - BBSRC EASTBIO Doctoral Training Partnership (DTP)
  For further information on funded PhDs see: edin.ac/mvm-funded-phds

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

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

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

- **Welcome Trust PhD Awards**
  The Welcome Trust offers studentships to support applicants studying Translational Neuroscience or Tissue Repair. These studentships cover UK/EU tuition fees, research costs and a stipend: www.ed.ac.uk/student-funding/science-communication

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

- **International Masters Scholarships for MSc Science Communication & Public Engagement (online)**
  We offer five masters scholarships of £2,000 to international (non-EU) students who are currently resident in one of the countries on the Development Assistance Committee (DAC) list of Official Development Assistance (ODA) recipients: www.ed.ac.uk/student-funding/science-communication

- **Research council awards**
  Research councils offer awards to PhD students in most of the Schools within the University of Edinburgh. All postgraduate applications from the research councils must be made through the University, through your School or College office. Awards can be made for both taught and research programmes.

  Normally only those UK/EU students who have been resident in the UK for the preceding three years are eligible for a full award. For some awards, candidates who are EU nationals and are resident in the UK may be eligible for a fees-only award.

  The UK Government has confirmed that EU postgraduate research students commencing their studies in 2020/21 will retain their fee status and eligibility for research council support for the duration of their programme: www.ed.ac.uk/student-funding/research-councils

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

  - **Mexico**
    - Banco de Mexico and the Banco de Mexico’s FIDERH trust (FIDERH): www.fiderh.org.mx
    - Fundacion Mexicana para la Educacion, la Tecnologa y la Ciencia (FONED): www.funedmex.org

  - **Other sources of funding**

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

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

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

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

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

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

We are here!
Western General Hospital
Approx 10 minutes by bus

We are here!
Edinburgh Dental Institute

We are here!
Edinburgh Bioquarter

We are here!
Central Area

Edinburgh Bioquarter

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

Parking

Western General

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

Parking

Parking

Parking

Parking
“You are now in a place where the best courses upon Earth are within your reach ... such an opportunity you will never again have.”

Thomas Jefferson, American Founding Father and President
(speaking to his son-in-law, Thomas Mann Randolph, as he began his studies at Edinburgh in 1786)
On 23 June 2016 the UK electorate voted in a national referendum to leave the European Union. EU postgraduate taught students enrolling in the 2020/21 academic year will be admitted as Scottish/EU fee status students and eligible for the same tuition support as Scottish domiciled students for the duration of their studies. This will still be the case in the event of a Brexit no deal scenario. For the latest information for students and applicants from the EU, please visit our website: www.ed.ac.uk/news/jeu

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

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