



THE UNIVERSITY
of EDINBURGH

THE UNIVERSITY
OF EDINBURGH
Medicine &
Veterinary Medicine
POSTGRADUATE
OPPORTUNITIES

2016 ENTRY

THE UNIVERSITY OF EDINBURGH: INFLUENCING THE WORLD SINCE 1583

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“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)

The University

Our proud history and alumni ambassadors

For more than 400 years our staff and students have been making their mark on the world. They've explored space, revolutionised surgery, won Nobel Prizes, published era-defining books, run the country, paved the way for life-saving breakthroughs and laid the foundations for solving the mysteries of the universe. By choosing further study or research at Edinburgh you will be joining a community of scholars who have been at the forefront of knowledge since 1583.

We are associated with 20 Nobel Prize winners, including physicists Peter Higgs, Charles Barkla and Max Born, medical researcher Peter Doherty, economist Sir James Mirrlees and biologist Sir Paul Nurse. Our distinguished alumni include NASA astronaut Piers Sellers, former MI5 Director-General Dame Stella Rimington, Olympians Sir Chris Hoy and Katherine Grainger and historical greats such as philosopher David Hume, physicist and mathematician James Clerk Maxwell, inventor Alexander Graham Bell and Sherlock Holmes creator Sir Arthur Conan Doyle.

Teaching and research excellence

We are consistently ranked as one of the world's top 50 universities. We are 17th in the 2014/15 QS World University Rankings. As host to more than 30,000 students from some 137 countries, studying across 100 academic disciplines, the University of Edinburgh continues to attract the world's greatest minds. In the Research Excellence Framework (REF) 2014, 83 per cent of our research was judged world-leading or internationally excellent. We're ranked fourth in the UK for research power, based on the quality and breadth of our research. Our excellent teaching was also confirmed in the latest report from the Quality Assurance Agency, which awarded us the highest rating possible for the quality of the student learning experience.

Collaborations and international partnerships

As an internationally renowned centre of academic excellence, Edinburgh is the site of many world-class research collaborations. Our postgraduate students are crucial to our continued success and development and, along with our staff, they forge research links through regular travel and overseas exchanges. We take pride in our partnerships with other institutions 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 – to name but a few. We are a member of both the League of European Research Universities and the Coimbra Group, giving us strong links with leading European institutions from Barcelona to Berlin.

Linking research and commerce

Edinburgh was one of the first UK universities to actively develop commercial links with industry, government and the professions. Edinburgh Research and Innovation (ERI) has continued, for the past four decades, to develop the promotion and commercialisation of the University's research excellence. ERI assists our postgraduates in taking a first step to market, whether it is through collaborative research, licensing technology or providing consultancy services.

Enhancing your career

We're ranked 18th in the world for the employability of our graduates.* With one of the best track records for graduate employment in the Russell Group, we are committed to embedding employability into your teaching and learning experience. From offering access to volunteering schemes to providing support from our sector-leading Careers Service, the University provides myriad opportunities to develop your skills, knowledge and experience giving you the edge in a competitive job market.

An inspiring destination

Your first-class education will take place in one of Europe's most striking capital cities, a UNESCO World Heritage Site that is regularly voted one of the best places in the world to live. Edinburgh enjoys a solid reputation as a centre for innovation, whether as home to the 18th-century Scottish Enlightenment, as a modern source of pioneering science, medicine and technology, or as the host of the world's largest and longest-established arts festival. You couldn't ask for a more inspiring setting in which to further your knowledge and broaden your horizons.

Join us

Edinburgh offers unparalleled academic breadth and diversity, making it a vibrant, challenging and stimulating environment for postgraduate study. Whether you plan to change direction, enhance your existing career or develop in-depth knowledge of your area of study, the University of Edinburgh provides a world-class learning experience.

* Latest Emerging Global Employability University Rankings

WELCOME TO THE COLLEGE OF MEDICINE & VETERINARY MEDICINE

The College of Medicine & Veterinary Medicine is a leading force internationally in basic-to-clinical translational research and teaching.

The Research Excellence Framework (REF) 2014 reaffirmed our position as one of the world's leading centres of medical and veterinary medical research. We entered three units of assessment – medicine, veterinary medicine and neuroscience. In all three we were ranked in the UK top five institutions and retained our first place ranking as the UK's top veterinary school. Overall, 84 per cent of our research was rated world-leading or internationally excellent. Our submissions were some of the largest in the UK, emphasising the enormous breadth and strength of our research in human and animal medicine and health.

Dynamic experience

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

Breadth and diversity

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

- cancer;
- cardiovascular science;
- health and welfare of animals;
- 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.

Illustrious history

Medicine in Edinburgh can trace its origins back nearly 500 years. The Royal (Dick) School of Veterinary Studies was founded in 1823. For centuries, medicine and veterinary medicine at Edinburgh have held an international reputation for research and teaching leadership, and for improving the health and wellbeing of communities across the globe.

Pioneers and trailblazers

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

- Joseph Lister, discoverer of life-saving antiseptic;
- Charles Darwin, world-renowned naturalist and author of *On the Origin of Species*;
- Sir James Young Simpson, pioneer of chloroform use;
- James Syme, pioneering surgeon;
- Margaret Barry, the first woman to graduate from a British medical school;
- William Gregory, who devised a procedure for crystallising morphine, opening up its use for pain relief;
- Julius Jeffreys, inventor of the respirator;
- Alexander Woods, who introduced the hypodermic syringe;
- Wong Fun, the first Chinese person to obtain a degree from a European university;
- 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.

Global influence

Edinburgh veterinary practitioners took the Edinburgh model around the world with unprecedented success. William Dick was an outstanding practitioner who made great strides in establishing veterinary education in Scotland. Besides establishing the Vet School in 1823, he was appointed Veterinary Surgeon in Scotland to Queen Victoria in 1844. Our more recent history includes the creation of the world's first animal to be cloned from an adult somatic cell, by the team of scientists led by Professor Sir Ian Wilmut.

Our ethos

Interdisciplinary research and high-quality teaching are at the heart of our ethos. All students, whether taught or research, belong to one of two Schools:

- Royal (Dick) School of Veterinary Studies; or
- Edinburgh Medical School.

Edinburgh Medical School consists of three Deaneries:

- Clinical Sciences
- Biomedical Sciences
- Molecular, Genetic and Population Health Sciences.

The College's research is organised into five institutes, where clinical and basic scientists interact closely around their basic-to-translational goals:

- Queen's Medical Research Institute
- Institute of Genetics and Molecular Medicine
- Edinburgh Neuroscience
- Roslin Institute
- Usher Institute of Population Health Sciences and Informatics



Graduate School

Our Graduate School provides an interdisciplinary, college-wide support network for all postgraduate students and staff. It is home to more than 2,400 postgraduate students studying within the Royal (Dick) School of Veterinary Studies or Edinburgh Medical School.

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

The Graduate School hosts a number of events including the open day and online chat sessions for prospective students, welcome events, and our round of the international 3 Minute Thesis competition.

Graduate School Hubs

Whether you're studying online or in Edinburgh, your programme will belong to one of our Graduate School Hubs. Your Hub will provide you with an accessible point of personal contact – in person, online or by phone – from application to graduation. Hubs are arranged thematically to bring together students working in similar fields. However all students in all Hubs work together as part of the wider Graduate School. Our Hubs are in:

- Biomedical Sciences
- Clinical & Translational Sciences
- Dental Institute
- Edinburgh Neuroscience
- Institute of Genetics and Molecular Medicine
- R(D)SVS & Roslin Institute
- Usher Institute.



Community

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

On campus, masters students work closely with their classmates through tutorials, lectures and seminars, becoming part of a close-knit group over the duration of their programme.

Distance isn't a barrier for our online distance-learning postgraduates; a diverse group of students from all over the world united through their academic interests. Using our award-winning interactive learning environments, our online students and tutors maintain a supportive virtual community that ensures successful online study.

Each research student joins an individual research centre within the College, and within each centre there are both social and academic opportunities to integrate with the wider postgraduate community, such as through seminar series, team-building and development exercises at College and University level or through the University's Postgraduate Society.

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

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

You will have access to all the support services available across the University, ranging from the Careers Service, International Office and the Edinburgh University Students' Association, through to the independent Advice Place and the Student Counselling Service.

More information:
www.ed.ac.uk/staff-students/students/student-services



Research and teaching environment

Each year, we support the training of more than 800 research students, and around 1,500 students undertaking taught programmes on campus or online. Whether you're undertaking a specialist research degree or a masters dissertation, we offer a wealth of interdisciplinary opportunities.

Research is organised across our two Schools and delivered within the five institutes described below, which each host a number of research centres. Our interdisciplinary groups, centres and institutes bring together basic and clinical academic staff and students in broad, thematic research concentrations encompassing basic sciences, translational and clinical research.

Queen's Medical Research Institute

QMRI is a world-class clinical research institute addressing a range of diseases at the most fundamental cellular level. Research is broadly focused on normal and diseased cells and inflammation and tissue repair. In QMRI the research emphasis is towards clinical-translational science, with two-way iteration from bench-to-bedside. Centres within the institutes are hubs for interdisciplinary research and training, and investigators collaborate widely, fostering the beneficial sharing of knowledge, ideas, skills, scientific cultures and infrastructure. QMRI hosts four research centres:

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

Institute of Genetics and Molecular Medicine (IGMM)

One of the largest centres internationally for human genetics and molecular medicine, the IGMM has a critical mass of more than 500 research and support scientists. It broadly focuses on genes and populations, and normal and diseased cells to study development and disease mechanisms. Our partner centres and units are grouped strategically to exploit common strengths in genetic and genomic analysis, and protein, cell and tissue regulation in disease, with emerging emphasis on innovative basic and translational science, from molecules to man and populations to process. The IGMM hosts two research centres:

- Centre for Genomic and Experimental Medicine
- Edinburgh Cancer Research Centre.

Edinburgh Neuroscience

Edinburgh Neuroscience is a vibrant, integrated and interdisciplinary research institute launched to facilitate interaction between researchers across groups, centres, schools and colleges, working at all levels of neuroscience, from molecules through synapses and networks to cognition and behaviour. Edinburgh Neuroscience hosts seven research centres:

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

The Roslin Institute

The Roslin Institute's vision brings together a coordinated commitment to research and research training that improves the health and welfare of animals and humans, protects the environment and supports safer and more secure food supplies, and more resilient rural communities. Our research focuses on Food and Environmental Security and One Biology/One Health, two of the greatest challenges facing humanity. It hosts Edinburgh Infectious Diseases and research from the Royal (Dick) School of Veterinary Studies.

The Usher Institute of Population Health Sciences and Informatics

The Usher Institute's vision is to conduct transformative research that impacts upon health care to improve the health and wellbeing of patients, communities and populations locally and globally. It brings together a critical mass of researchers with expertise in epidemiology, statistics and modelling, informatics, computer science, clinical science, sociology, social policy, governance, ethics, politics, medical law psychology, economics, geography, health promotion and medicine to create a truly interdisciplinary research institute. Our research and innovation community will also support leadership and delivery for Edinburgh Data Science. The Usher Institute hosts the Centre for Population Health Sciences.

Research centres

You can find out more about our interdisciplinary research centres online:

BHF Centre for Cardiovascular Science:
www.cvs.ed.ac.uk

Centre for Clinical Brain Sciences:
www.ccbs.ed.ac.uk

Centre for Cognitive and Neural Systems:
www.ccns.ed.ac.uk

Centre for Genomic and Experimental Medicine:
www.cgem.ed.ac.uk

Centre for Integrative Physiology:
www.ed.ac.uk/integrative-physiology

Centre for Neuroregeneration:
www.cnr.ed.ac.uk

Centre for Population Health Sciences:
www.cphs.mvm.ed.ac.uk

Edinburgh Cancer Research Centre:
www.ecrc.ed.ac.uk

Edinburgh Infectious Diseases:
www.eid.ed.ac.uk

MRC Centre for Inflammation Research:
www.cir.ed.ac.uk

MRC Centre for Regenerative Medicine:
www.crm.ed.ac.uk

MRC Centre for Reproductive Health:
www.crh.ed.ac.uk

MRC Human Genetics Unit:
www.hgu.mrc.ac.uk

The Roslin Institute:
www.roslin.ed.ac.uk

Facilities

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

Our facilities include:

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



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 of our postgraduate students can benefit from the University's 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.

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

For taught postgraduates, the IAD provides a growing range of tailored study-related and transferable skills workshops, plus online advice and learning resources. These are all designed to help you settle into postgraduate life, succeed during your studies, and move confidently to the next stage of your career.

The IAD also offers one of the longest-established researcher development training packages in the UK. Our experts will help you gain the skills, knowledge and confidence needed to move on to the next stage in your career, be that in academia or beyond.

The Institute provides research students with dedicated training in topics such as research management; personal effectiveness; communication skills; public engagement, networking and teamworking; leadership; and career management. You can gain expertise in information technology and presentation skills; confidence in undertaking independent and creative research; the ability to critically evaluate source materials; and the capacity to construct intellectually rigorous arguments. By developing these broader professional skills and qualities, our postgraduate students are always in high demand.

Careers Service

The University's award-winning Careers Service aims to expand the horizons of all our students, empowering you to make successful career decisions. It works closely with the University's Employability Consultancy to support students to take advantage of every opportunity to enhance your employability while studying.

The Service provides specialist support for postgraduate students to help with career planning and decision making. Its team of friendly experts can support you to explore different career options, identify your skills and what you want out of a career, think about effective job search strategies, and prepare for job applications and interviews.

The Service has a team dedicated to developing our already strong links with employers from all industries and employment sectors; from the world's top recruiters to small enterprises based here in Edinburgh. The team provides a programme of opportunities for students to meet employers on campus and virtually, and advertises a wide range of part-time and graduate jobs.

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

Connect.ed

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

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

Backing bright ideas

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

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

High ranking

The University of Edinburgh is ranked 18th in the world for the employability of our graduates.*

*Latest Emerging Global Employability University Ranking

Eurolife postgraduate student exchange visits

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

The eight Eurolife universities are:

- The University of Edinburgh, College of Medicine & Veterinary Medicine
- Karolinska Institute, Sweden

- School of Medicine, Trinity College, Dublin, Ireland
- Leiden University Medical Center, Netherlands*
- University Medical Center, Göttingen, Germany*
- University of Barcelona, Spain*
- Medical University of Innsbruck, Austria*
- University of Strasbourg, France*

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

Typically, Eurolife student exchange visits are for up to six months, to undertake masters-level course modules and/or a research project. Normally each institution will accept exchange

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

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

Global Health Academy

The University's Global Health Academy draws on a wide range of expertise, crossing all boundaries in global health. Because global health is not one single discipline, but multiple disciplines cutting across traditional institutional functions and boundaries, the University has brought together world-class research drawn from numerous academic areas in order to deliver a greater impact. For example, public health and clinical physicians work closely with our leading anthropologists, biomedical scientists,

epidemiologists, geographers, health economists, management specialists, mathematicians, political scientists and sociologists. The umbrella of the Global Health Academy also extends outwards to specialists across the globe who wish to lend their expertise to our training, teaching or research for shorter or longer periods.

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

Online distance learning masters programmes

Our flexible, online distance learning masters programmes are making a difference to a new generation of postgraduate students around the world.

The University of Edinburgh is the largest provider of postgraduate online distance learning programmes in the Russell Group. The College of Medicine & Veterinary Medicine has been offering innovative postgraduate programmes online since 2005 and now has more than 25 programmes for you to choose from. With more than 1,500 online students in our College, we can assure you that we take the delivery of teaching online as seriously as we do on campus. You can choose to study at a time and in a place that suits you, saving relocation costs and allowing you to maintain professional and personal commitments.

Our online learning technology is fully interactive and enables you to communicate with our highly qualified teaching staff from the comfort of your own home or workplace. We give you as much access to our staff as if you were here in Edinburgh. Our online students not only have access to Edinburgh's excellent resources, but also become part of a supportive online community, bringing together students and tutors from around the world. When you consider the benefits of flexible online study, it's not surprising that even locally based professionals choose this option.

Some programmes in this section can be taken as intermittent study. If you choose to study intermittently then your tuition fees will be charged on a course-by-course basis. Full details can be found online.

More information:
www.ed.ac.uk/student-funding/fees-postgraduate

New programmes

We are expanding our online distance learning portfolio and plan to launch the following programmes for September 2016 intake:

Advanced Clinical Practice MVetSci/PgDip/PgCert/Short courses

This qualification will support veterinary practitioners seeking to develop advanced specialist skills and apply for RCVS Advanced Practitioner status. It may also support those intending to progress to European Diploma (veterinary specialist) through the available institutional programmes. It is designed to allow you to improve your clinical skill set to enhance the quality of your practice, by improving patient care, client services and business success, and your own employability. This flexible programme will have a clinical focus, and will include courses in cardiology, ophthalmology and dermatology. Ideal for veterinary graduates.

Applied Disease Ecology in Livestock Production

MSc/PgDip/PgCert/Short courses

This programme will allow those working in animal health to identify fundamental drivers of disease outbreaks, enabling you to control the disease at the farm level, rather than just treat the symptoms. It will provide the latest research in disease systems, and facilitate the application of this knowledge in your own areas. Ideal for vets and science graduates who wish to enhance their knowledge and understanding of the implications of managed and natural environments for disease risk and control.

Clinical Animal Behaviour

MSc/PgDip/PgCert/Short courses

This programme is about dealing with the problem behaviour of animals, mainly dogs and cats, and will be taught by a range of international animal experts including clinical animal behaviour practitioners. It will offer a recognised and credible qualification for students interested in becoming professionally involved in the field. Ideal for biologists, vets, vet nurses, animal scientists, animal welfare specialists, dog and cat charity workers, or psychology graduates.

Data Science

PgCert/Short courses

This programme is aimed at professionals wishing to develop an awareness of applications and implications of data intensive systems. It is intended to allow different points of entry into data science, across sciences, medicine, arts and humanities. It will promote deeper knowledge through domain experience and instruction in technology, concentrating on active uses of data research. You will gain an understanding of how data richness, combined with enabling technologies, opens up radical new ways of approaching research, innovation and education.

Veterinary Anaesthesia & Analgesia

MSc/PgDip/PgCert/Short courses

This programme is designed to allow people who are working within anaesthesia in a variety of roles to gain a qualification to accompany that experience and knowledge. You will be supported by a team of anaesthetists who are experienced both in anaesthesia and analgesia but also in teaching. Ideal for veterinary surgeons with an interest in veterinary anaesthesia, or veterinary nurses or researchers who are involved with anaesthesia in veterinary practice or research.

For more up-to-date information on these programmes, check online: www.ed.ac.uk/pg/degrees



www.ed.ac.uk/pg/890

Anatomical Sciences



PgCert 1 yr PT, PgDip 2 yrs PT

Programme description

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

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

Programme structure

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

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

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

YEAR 1

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

YEAR 2

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

Career opportunities

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

Minimum entry requirements

A UK 2:1 honours degree or above, or its international equivalent (www.ed.ac.uk/international/country), in one of the following areas: biological sciences, biomedical sciences, medicine, veterinary medicine, or sports science. Personnel in professions allied to medicine will also be considered.

English language requirements

See page 60.

Fees and funding

www.ed.ac.uk/student-funding/postgraduate
For funding information see also page 58.

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

www.ed.ac.uk/pg/646

Biodiversity, Wildlife & Ecosystem Health



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

Programme description

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

Programme structure

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

YEAR 1: CERTIFICATE

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

YEAR 2: DIPLOMA

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

*Subject to minimum student numbers and timetabling.

YEAR 3: MASTERS

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

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

Career opportunities

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

Minimum entry requirements

A UK 2:1 honours degree or above, or its international equivalent (www.ed.ac.uk/international/country), in a zoological, biological, environmental, veterinary or a relevant bioscience topic. Applicants with relevant work experience may be considered on a case-by-case basis.

English language requirements

See page 60.

Fees and funding

www.ed.ac.uk/student-funding/postgraduate
For funding information see also page 58.

Programme Director Sharron Ogle
Email web.onlinemsc@ed.ac.uk

www.ed.ac.uk/pg/246

Clinical Education



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

Programme description

Our Clinical Education programme takes advantage of our world-renowned expertise to enhance your abilities to teach and assess students in a clinical environment. This is an ideal programme for those responsible for tutoring health care professionals and veterinary practitioners, including doctors, nurses, dental practitioners and those involved with veterinary education.

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

Programme structure

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

YEAR 1: CERTIFICATE

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

YEAR 2: DIPLOMA

Appraising and Developing the Individual; Research in Clinical Education; Policy, Leadership, Management and Evaluation.

YEAR 3: MASTERS

A research report of approximately 15,000 words.

Career opportunities

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

Minimum entry requirements

A primary clinical qualification, such as an MBChB, BVS, BDS, Bachelor of Nursing, or equivalent is required. Applications from those with biomedical science qualifications or non-university professional qualifications such as RGN with appropriate clinical experience will be considered on an individual basis. You must be currently involved in clinical, medical, allied healthcare or veterinary education – for example, teaching undergraduate or postgraduate students.

English language requirements

See page 60.

Fees and funding

www.ed.ac.uk/student-funding/postgraduate
For funding information see also page 58.

Programme Director Michael Ross
Email clinicaleducation@ed.ac.uk

www.ed.ac.uk/pg/820

Clinical Management of Pain



MSc 3-6 yrs. PgDip 2-4 yrs. PgCert 1-2 yrs.

Programme description

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

Programme structure

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

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

Career opportunities

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

Postgraduate Professional Development

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

Minimum entry requirements

A UK 2:1 honours degree or above, or its international equivalent (www.ed.ac.uk/international/country), in medicine, nursing, dentistry, psychology, occupational therapy, physiotherapy, pharmacology or any other allied health care profession involved in the management of pain. Applications from those with non-university professional qualifications such as RGN with appropriate clinical experience will be considered on an individual basis.

English language requirements

See page 60.

Fees and funding

www.ed.ac.uk/student-funding/postgraduate
For funding information see also page 58.

Programme Director Sarah Henderson
Email sarah.henderson@ed.ac.uk

www.ed.ac.uk/pg/891

Clinical Microbiology & Infectious Diseases



MSc 3 yrs PT

Programme description

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

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

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

Programme structure

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

YEAR 1

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

YEAR 2

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

YEAR 3

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

Career opportunities

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

Minimum entry requirements

A UK 2:1 honours degree or above, or its international equivalent (www.ed.ac.uk/international/country), in a biomedical, medical, public health or relevant bio-science topic. Applicants who fall below these entry requirements, but have relevant work experience, may be considered on a case-by-case basis. You may be admitted to the Certificate level only in the first instance.

English language requirements

See page 60.

Fees and funding

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

For funding information see also page 58.

Programme Administrator

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www.ed.ac.uk/pg/860

Clinical Ophthalmology



ChM 2-4 yrs PT

Programme description

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

Programme structure

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

YEAR 1

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

YEAR 2

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

Career opportunities

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

Minimum entry requirements

A basic medical qualification recognised by the General Medical Council. You must be based within a supervised training programme at the time of commencing the course. UK trainee applicants will be expected to have completed initial (ST[specialist training years]1-2) or (CT[core training years]1-2) and early intermediate (ST3) phases of their training programme and will normally be commencing intermediate phase (ST4) of their training. Candidates from outside the UK or those not within a recognised training programme will be required to demonstrate that the course is directly relevant to their ophthalmic surgery training. You should have completed a minimum of 24 months of core training in the surgical specialties and 18 months of specialty training in ophthalmology before enrolling for the ChM. Applications from established, independently practising ophthalmologists will also be considered.

English language requirements

See page 60.

Fees and funding

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

For funding information see also page 58.

ChM Programme Administration

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Email chminfo@rcsed.ac.uk

www.ed.ac.uk/pg/809

Clinical Trials



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

Programme description

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

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

Programme structure

This programme is made up of compulsory and option courses.

COMPULSORY COURSES

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

OPTION COURSES

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

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

Career opportunities

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

Minimum entry requirements

A relevant UK 2:1 honours degree or above, or its international equivalent (www.ed.ac.uk/international/country), or a medical degree. Applicants who fall below these entry requirements, but have relevant work experience (3-5 years) may be considered on a case-by-case basis. You may be admitted to the Certificate level only in the first instance.

English language requirements

See page 60.

Fees and funding

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

For funding information see also page 58.

Programme Director Stuart Ralston

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www.ed.ac.uk/pg/786

Conservation Medicine



MVetSci 3-6 yrs. PgDip 2-4 yrs. PgCert 1-2 yrs.

PgProfDev up to 2 yrs PT

Programme description

Conservation Medicine is an emerging discipline that studies the complex relationships and interactions between animal health, human health and ecosystem health. This programme provides veterinarians with the skills and knowledge required to be effective practitioners of conservation medicine.

This programme is ideal for veterinarians who wish to achieve a world-class award while maintaining busy professional and personal commitments. You will gain the capacity and necessary expertise to contribute effectively to this rapidly growing multidisciplinary field and to enhance career opportunities.

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

Programme structure

The flexible nature of this programme will allow you a maximum of six years to complete it. Each year will consist of three, 11-week terms, structured into two blocks of five weeks of study, with a week in between for independent study and reflection. It is also possible to complete the masters within two years and there are options for studying for a certificate or a diploma.

YEAR 1: CERTIFICATE

Introduction to Conservation Medicine; Eco-System Health and Species Conservation; Applied Epidemiology and Surveillance.

YEAR 2: DIPLOMA

You will study *Veterinary Techniques and Interventions for Conservation Medicine and Wildlife Disease Management* plus four option courses from a choice of ten.

YEAR 3: MASTERS

The written reflective element of the programme gives you the opportunity to further develop your scientific skills and utilise scientific theory in a written dissertation, a casebook relating to relevant professional experience, a personal portfolio of reflective and practical activity or a short research project.

Career opportunities

You can use your conservation medicine qualification to enhance your career prospects in academia, research, governmental and non-governmental organisations and consultancies.

Postgraduate Professional Development

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

Minimum entry requirements

A UK 2:1 honours degree or its international equivalent (www.ed.ac.uk/international/country) in veterinary medicine or veterinary science.

English language requirements

See page 60.

Fees and funding

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

For funding information see also page 58.

Programme Director Anna Meredith

Email conservation.medicine@ed.ac.uk

www.ed.ac.uk/pg/239

Equine Science



MSc 3-6 yrs. PgDip 2-4 yrs. PgCert 1-2 yrs.
PgProfDev up to 2 yrs PT

Programme description

This programme involves an in-depth scientific approach to managing health and welfare, reproduction, behaviour, nutrition and exercise for horses. You will also learn how to practically apply a scientific approach to benefit horse health, welfare and performance.

Our online programme is the first and only Equine Science programme within an international centre of veterinary excellence. It provides students with detailed knowledge and understanding of equine science and its applications and is excellent preparation for future independent research or a PhD.

Programme structure

The taught part of the programme consists of the following courses, while the final year is devoted to a dissertation.

The full MSc programme can be completed within two years if students study all taught courses in one year and devote the second year to a dissertation project. Alternatively you can take up to six years to complete the MSc. There is also the option to graduate with an Equine Science postgraduate certificate or diploma.

CERTIFICATE AND DIPLOMA

Research Methods in Equine Science; Equine Digestion and Nutrition; Equine Behaviour and Welfare; Equine Orthopaedics; Equine Reproduction; Equitation Science; Equine Exercise Physiology.

FINAL YEAR

Your dissertation of 10,000-15,000 words will allow you to analyse and present relevant research data that you have collected yourself. Alternatively, you can undertake desk study to explore and develop your own area of interest.

Career opportunities

Graduates from this research-rich, taught MSc will be prepared for employment in research establishments, such as universities and research institutions; industry, such as feed companies, stud farms, pharmaceuticals and consultancy firms; government organisations, such as ADAS and DEFRA; and welfare organisations such as the RSPCA, WSPA and LPH.

Postgraduate Professional Development

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

Minimum entry requirements

A UK 2:1 honours degree or above, or its international equivalent (www.ed.ac.uk/international/country), in veterinary science or a biological science, with subject areas including zoology, animal/equine science or pharmacology/pharmacy.

English language requirements

See page 60.

Fees and funding

www.ed.ac.uk/student-funding/postgraduate
For funding information see also page 58.

Programme Contact Bryony Lancaster
Tel +44 (0)131 650 8783
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www.ed.ac.uk/pg/870

Family Medicine



MFM 2 yrs PT

Programme description

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

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

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

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

Programme structure

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

COURSES

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

Career opportunities

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

Minimum entry requirements

A UK 2:1 honours degree or its international equivalent (www.ed.ac.uk/international/country) in medicine. Applications are particularly welcome from medical graduates working in India or other low income countries with a commitment to continue working in poorly resourced areas.

English language requirements

See page 60.

Fees and funding

www.ed.ac.uk/student-funding/postgraduate
For funding information see also page 58.

Programme Contact Jo Ntawuyamara-Marshall
Email family.medicine@ed.ac.uk

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

Ijeoma A Azodo, ChM in General Surgery

www.ed.ac.uk/pg/697

General Surgery



ChM 2 yrs PT

Programme description

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

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

Programme structure

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

YEAR 1

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

YEAR 2

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

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

Career opportunities

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

Minimum entry requirements

A basic medical qualification recognised by the General Medical Council is required. You should also have acquired MRCS (or equivalent assessment milestone) and be an Advanced Trainee in General Surgery (ST [specialist training years] 5/6 in UK or equivalent if outside UK).

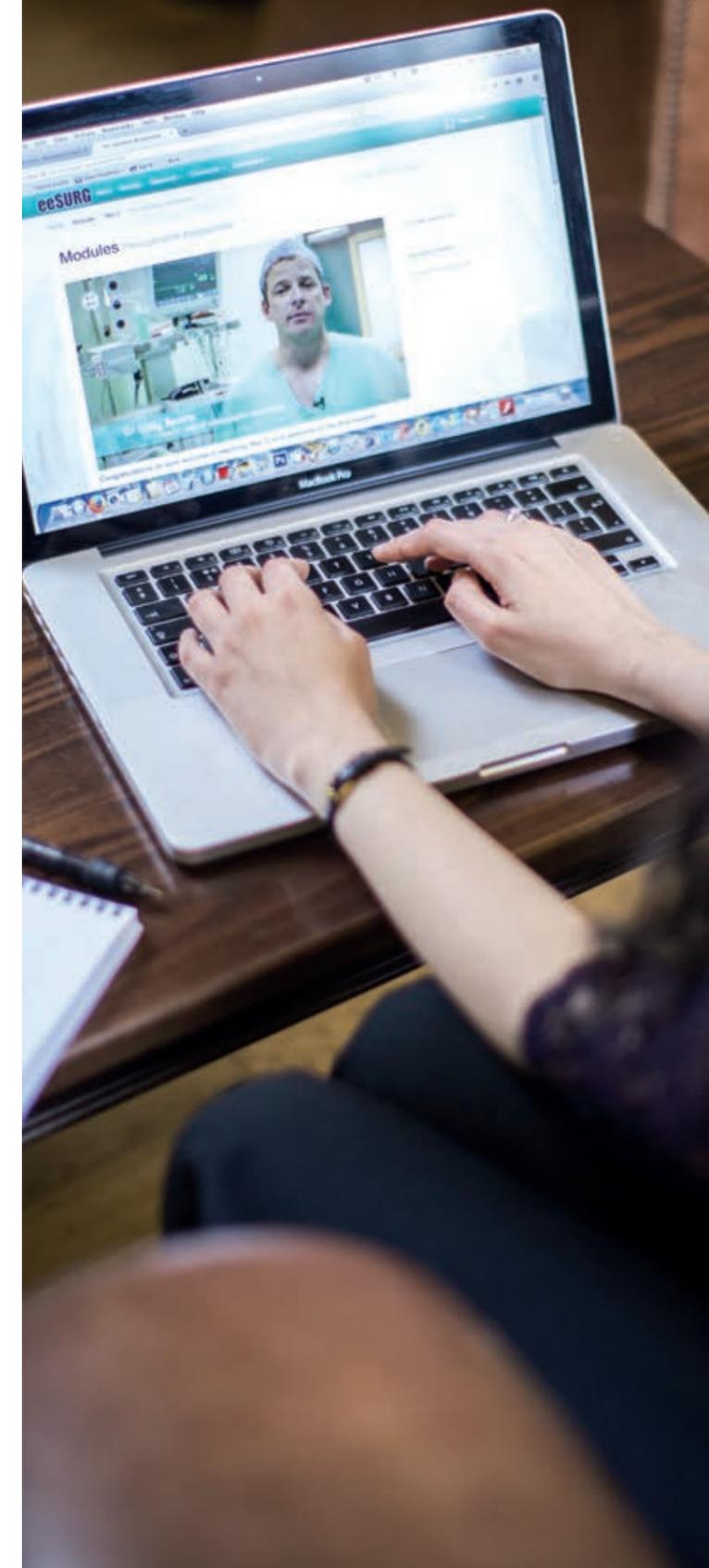
English language requirements

See page 60.

Fees and funding

www.ed.ac.uk/student-funding/postgraduate
For funding information see also page 58.

Programme Director Ewen Harrison
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www.ed.ac.uk/pg/852

Global eHealth



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

Programme description

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

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

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

Programme structure

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

YEARS 1 AND 2: CERTIFICATE AND DIPLOMA

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

YEAR 3: MASTERS

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

Career opportunities

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

Minimum entry requirements

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

English language requirements

See page 60.

Fees and funding

www.ed.ac.uk/student-funding/postgraduate
For funding information see also page 58.

Programme Director Claudia Pagliari
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www.ed.ac.uk/pg/413

Global Health & Infectious Diseases



MSc 3-6 yrs, PgDip 2-4 yrs, PgProfDev up to 2 yrs PT,
PgCert 1-2 yrs PT

Programme description

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

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

Programme structure

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

YEAR 1: CERTIFICATE

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

YEAR 2: DIPLOMA

You will choose from a range of courses that includes: *Emerging Infectious Diseases; Forensic Medicine and Science; Global Health: Mortality; Hospital-acquired Infections; Neglected Tropical Diseases; Newborn and Child Health; Public Health Systems in the Developed and Developing World; Sexually Transmitted Infections; Water and Sanitation; Zoonotic Disease.*

YEAR 3: MASTERS

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

Career opportunities

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

Minimum entry requirements

A UK 2:1 honours degree or above, or its international equivalent (www.ed.ac.uk/international/country), in a biomedical, medical, public health and veterinary personnel or relevant bioscience topic. Relevant work experience may be considered. Applicants who fall below these entry requirements, but have relevant work experience, may be considered on a case-by-case basis.

English language requirements

See page 60.

Fees and funding

www.ed.ac.uk/student-funding/postgraduate
For funding information see also page 58.

Programme Director Kim Picozzi
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www.ed.ac.uk/pg/793

Global Health Challenges



PgCert 1 or 2 yrs PT

Programme description

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

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

You will develop an understanding of the processes and procedures by which the global health agenda is shaped. You will also gain the analytical and conceptual skills necessary to critically evaluate the nature of global health issues and to understand the interconnectedness of health with social, environmental, 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 and environments. It will involve mixed teaching approaches with world expert leaders, online discussion, group project work, and independent study and reflection. After successfully completing this postgraduate certificate, you may choose to take two further postgraduate certificates in Global Development Challenges and Global Environment Challenges. Completion of all three certificates leads to an MSc in Global Challenges.

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

Career opportunities

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

Minimum entry requirements

A UK 2:1 honours degree or above, or its international equivalent (www.ed.ac.uk/international/country), in medicine, nursing, social science, science, biomedicine, or other related discipline. Applicants who fall below these entry requirements, but have relevant work experience, may be considered on a case-by-case basis.

English language requirements

See page 60.

Fees and funding

www.ed.ac.uk/student-funding/postgraduate
For funding information see also page 58.

Programme Director Liz Grant
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www.ed.ac.uk/pg/702

Global Health Studies



PgProfDev up to 2 yrs. PgCert 1 yr PT

Programme description

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

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

Programme structure

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

Career opportunities

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

Postgraduate Professional Development

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

Minimum entry requirements

A UK 2:1 honours degree or above, or its international equivalent (www.ed.ac.uk/international/country). Some courses benefit from a scientific background although this is not an entry requirement. Applicants who fall below these entry requirements but have relevant work experience may be considered on a case-by-case basis.

English language requirements

See page 60.

Fees and funding

www.ed.ac.uk/student-funding/postgraduate
For funding information see also page 58.

Programme Director Kim Picozzi
Email globalhealth.studies@ed.ac.uk

www.ed.ac.uk/pg/815

Imaging



MSc 3-6 yrs. PgDip 2-4 yrs. PgCert 1-2 yrs.

Programme description

This programme is aimed at those interested in imaging sciences, light microscopy, preclinical imaging and clinical imaging (including courses in cardio-thoracic, oncology and inflammation imaging).

The programme integrates the University's rich and multidisciplinary imaging educational opportunities and provides a tailored imaging learning experience targeted at the diverse needs and interests of students with backgrounds in clinical medicine; basic sciences and engineering; and information technology.

Programme structure

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

YEAR 1: CERTIFICATE

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

YEAR 2: DIPLOMA

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

YEAR 3: MASTERS

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

Career opportunities

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

Postgraduate Professional Development

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

Minimum entry requirements

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

English language requirements

See page 60.

Fees and funding

www.ed.ac.uk/student-funding/postgraduate
For funding information see also page 58.

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

www.ed.ac.uk/pg/692

Internal Medicine



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

Programme description

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

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

Programme structure

This programme is made up of compulsory and option courses.

COMPULSORY COURSES

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

OPTION COURSES

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

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

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.

Minimum entry requirements

A UK 2:1 honours degree or above, or its international equivalent (www.ed.ac.uk/international/country), in medicine or a clinically relevant subject, plus work experience in a clinical context. Applicants who fall below these requirements but have relevant work experience may be considered on a case-by-case basis.

English language requirements

See page 60.

Fees and funding

www.ed.ac.uk/student-funding/postgraduate
For funding information see also page 58.

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

www.ed.ac.uk/pg/241

International Animal Health



MSc 2-6 yrs. PgDip 2-4 yrs. PgCert 1-2 yrs.

Programme description

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

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

Programme structure

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

YEAR 1: CERTIFICATE

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

YEAR 2: DIPLOMA

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

YEAR 3: MASTERS

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

Career opportunities

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

Minimum entry requirements

A UK 2:1 honours degree or above, or its international equivalent (www.ed.ac.uk/international/country), in veterinary medicine, agricultural science, biology or a related science discipline. Applicants who fall below these requirements but have relevant work experience may be considered on a case-by-case basis.

English language requirements

See page 60.

Fees and funding

www.ed.ac.uk/student-funding/postgraduate
For funding information see also page 58.

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

www.ed.ac.uk/pg/788

International Animal Welfare, Ethics & Law

MSc 3-6 yrs. PgDip 2-4 yrs. PgCert 1-2 yrs.
PgProfDev up to 2 yrs PT

Programme description

The objective of this programme is to provide knowledge and an understanding of animal welfare science, with a focus on the international issues arising from animal use in all its forms. It is delivered by researchers and teachers from both the Jeanne Marchig International Centre for Animal Welfare Education (within the Royal (Dick) School of Veterinary Studies) and Scotland's Rural College (SRUC) with a series of guest lecturers from around the world.

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

Programme structure

The programme is modular, allowing us to offer a flexible student-centred approach to the choice of courses studied. You may choose to study to Postgraduate Certificate, Postgraduate Diploma or MSc level.

YEAR 1: CERTIFICATE

You will study *International Animal Welfare Science and Animal Ethics, Policy and Law* plus an option course.

YEAR 2: DIPLOMA

You can choose from a range of option courses, which include: *Animal Welfare in Research, Testing and Education; Production Animal Welfare; Companion Animal Welfare; Captive, Free Range and Wild Animal Welfare; Clinical Animal Behaviour.*

YEAR 3: MASTERS

You complete your dissertation of 10,000-15,000 words, on a topic of your choice.

Programme duration

The full MSc can be completed within two years if all taught courses are completed in one year and the second year is devoted to a dissertation project. Alternatively you can take up to six years to complete the full MSc. There is also the option to graduate with a Postgraduate Certificate or Postgraduate Diploma.

Career opportunities

Graduates can use their qualification to enhance their career prospects in academia, research, governmental and non-governmental organisations and consultancies.

Postgraduate Professional Development

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

Minimum entry requirements

A UK 2:1 honours degree or above, or its international equivalent (www.ed.ac.uk/international/country), in animal science, biology, psychology, zoology or veterinary science.

English language requirements

See page 60.

Fees and funding

www.ed.ac.uk/student-funding/postgraduate
For funding information see also page 58.

Programme Director Fritha Langford
Email fritha.langford@sruc.ac.uk



www.ed.ac.uk/pg/234

Neuroimaging for Research



MSc 3-6 yrs. PgDip 2-4 yrs. PgProfDev up to 2 yrs PT.
PgCert 1-2 yrs.

Programme description

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

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

Programme structure

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

YEAR 1: CERTIFICATE

You will complete the compulsory courses: *Techniques and Physics; Applications in Disease; Common Image Processing Techniques; Practicalities of MR.*

YEAR 2: DIPLOMA

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

YEAR 3: MASTERS

You will complete practical work and assessments.

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

Career opportunities

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

Postgraduate Professional Development

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

Minimum entry requirements

A UK 2:1 honours degree or above, or its international equivalent (www.ed.ac.uk/international/country), in neuroscience, physiology, pharmacology, informatics, psychology, physics or a related subject. Students and professionals with a radiography qualification or a medical degree are also welcome to apply.

English language requirements

See page 60.

Fees and funding

www.ed.ac.uk/student-funding/postgraduate
For funding information see also page 58.

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

www.ed.ac.uk/pg/814

One Health



MSc 3-6 yrs. PgDip 2-4 yrs. PgCert 1-2 yrs.
PgProfDev up to 2 yrs PT

Programme description

One Health is an emerging discipline that studies the complex relationships and interactions between animal health, human health and ecosystem health. The new, re-emerging and recurring global health threats that we are facing require a long-term, more strategic approach to global health preparedness. Underlying the problem is the growing interaction between human and animal populations driven by growth in the human population, new trends in animal production practices, changing patterns of wildlife populations, human intrusion on new ecosystems, and trans-border mobility of humans, animals, food and feed products.

Programme structure

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

YEAR 1: CERTIFICATE

Introduction to One Health; Applied Epidemiology, Surveillance and Observational Studies; One Health Policy and Practice.

YEAR 2: DIPLOMA

At least one of *Socio Economic Principles for One Health; Ecosystem Health; and One Health Management and Risk Assessment*; plus your choice from: *Emerging Infectious Diseases; Zoonotic Diseases; Communication, Public Engagement and Conservation; Introduction to GIS and Spatial Analysis; Surveillance and Control of Trans-boundary Diseases affecting International Trade; Wildlife Disease Management; Ex-situ Wildlife Management; Wild Animal Welfare; Environmental Law; Extreme and Fragile Ecosystems; Water and Sanitation.*

YEAR 3: MASTERS

An assignment of 10,000-15,000 words; either a written dissertation, a casebook (relating to relevant professional experience); a personal portfolio of reflective and practical activity or a research project.

Career opportunities

This qualification will enhance your career prospects in academia, research, governmental and non-governmental organisations and private sectors, to advance One Health beyond the theoretical to the practical and bring attention to policy and operational issues in public and animal health sectors, and in food hygiene. The programme will equip you to travel worldwide for employment or research.

Postgraduate Professional Development

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

Minimum entry requirements

A UK 2:1 honours degree or above, or its international equivalent (www.ed.ac.uk/international/country), in veterinary medicine, medicine, life/biological sciences, biomedical science, ecosystem health, environmental sciences, social science, or economics.

English language requirements

See page 60.

Fees and funding

www.ed.ac.uk/student-funding/postgraduate
For funding information see also page 58.

Programme Co-ordinator Neil Anderson
Email neil.anderson@ed.ac.uk

www.ed.ac.uk/pg/667

Paediatric Emergency Medicine



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

Programme description

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

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

Programme structure

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

YEAR 1: CERTIFICATE

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

YEAR 2: DIPLOMA

You will take the following compulsory courses: *Medical Emergencies; Surgical Emergencies & Trauma/Anaesthesia & Sedation; Additional Topics in Paediatric Emergency Medicine*.

YEAR 3: MASTERS

You will study the compulsory course *Management Issues in Paediatric Emergency Medicine* and undertake a written reflective element from a number of suggested topics.

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

Career opportunities

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

Minimum entry requirements

A medical degree (MBChB or equivalent) plus one year of clinical experience is required.

English language requirements

See page 60.

Fees and funding www.ed.ac.uk/student-funding/postgraduate
For funding information see also page 58.

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

www.ed.ac.uk/pg/862

Primary Care Ophthalmology



MSc 3-6 yrs PT, PgDip 2-4 yrs PT, PgCert 1-2 yrs PT

Programme description

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

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

Programme structure

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

YEAR 1: CERTIFICATE

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

YEAR 2: DIPLOMA

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

YEAR 3: MASTERS

A supervised masters research project and submission of a written dissertation.

Career opportunities

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

Minimum entry requirements

A UK 2:1 honours degree or above, in optometry, or its international equivalent (www.ed.ac.uk/international/country), or a medical degree. Applications will also be considered from health professionals involved in eye care who have an excellent or very good classification undergraduate degree in orthoptics, dispensing optics, ophthalmic nursing, biomedical sciences, or international equivalents.

English language requirements

See page 60.

Fees and funding

www.ed.ac.uk/student-funding/postgraduate
For funding information see also page 58.

MSc Programme Administration
Email essqinfo@rcsed.ac.uk

www.ed.ac.uk/pg/789

Primary Dental Care



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

Programme description

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

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

Programme structure

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

YEAR 1 (CERTIFICATE) AND YEAR 2 (DIPLOMA)

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

YEAR 3: MASTERS

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

Career opportunities

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

Summer school

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

Minimum entry requirements

A Bachelor of Dental Surgery degree, or equivalent primary dental qualification, along with a minimum of two years post-qualification experience in primary dental care, is normally required.

English language requirements

See page 60.

Fees and funding

www.ed.ac.uk/student-funding/postgraduate
For funding information see also page 58.

Programme Director Oonagh Lawrie
Email epdi@ed.ac.uk

www.ed.ac.uk/pg/886

Public Health



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

Programme description

Public Health is about preventing disease, prolonging life and promoting health through the efforts of society. Whether you are already a working professional in this area, or new to the subject, this is the ideal programme for those wishing to address today's problems in public health. You will gain an understanding of how different scientific disciplines can be used to investigate and then develop the best professional practice in epidemiology, public health and the social science of health.

This programme is taught by lecturers at the University of Edinburgh Centre for Population Health Sciences (CPHS), an interdisciplinary research hub which draws together researchers, clinicians and practitioners from public health, primary care and biomedical and social sciences. The Centre is also a WHO Collaborating Centre for Population Health Research and Training.

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

Programme structure

All students follow the same, compulsory courses in Year 1 then choose whether to follow a general public health strand or specialise in global non-communicable disease. Please refer to the programme information online for specific information about option courses available.

YEAR 1: CERTIFICATE

Epidemiology for Health Professionals; Health Systems Analysis; Introduction to Qualitative Research Methods; Introduction to Health Promotion.

YEAR 2: DIPLOMA

The following courses are compulsory: *Research Skills for Public and Global Health; Introduction to Systematic Reviews. Public Health strand:* You will choose either 40 credits of options and a dissertation or 60 credits of options (see online for full list). **Global Health Non-Communicable Diseases (NCD) strand:** *Introduction to Global Health; Globalisation and Non-Communicable Diseases;* plus 20 credits options.

YEAR 3: MASTERS

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

Career opportunities

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

Minimum entry requirements

A UK 2:1 honours degree or above, or its international equivalent (www.ed.ac.uk/international/country). For those with non-health related backgrounds or those who have been out of full-time education for some time, both academic qualifications and work experience will be considered.

English language requirements

See page 60.

Fees and funding

www.ed.ac.uk/student-funding/postgraduate
For funding information see also page 58.

Programme Co-ordinator Sarah Gordon
Tel +44 (0)131 650 2679
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www.ed.ac.uk/pg/888

RCVS Certificate in Advanced Veterinary Practice



PgProfDev 1-10 yrs PT

Programme description

The RCVS Certificate in Advanced Veterinary Practice (CertAVP) is a flexible, modular approach to achieving veterinary postgraduate qualifications. Credits are awarded by RCVS and not the University of Edinburgh and as such the programme is not eligible for any University award. You will design your own programme, choosing a combination of elements that reflect your interests and are directly relevant to your work. You may choose modules from a number of accredited institutions in the UK. You are also encouraged to support your study by undertaking appropriate continuing professional development (CPD) and working closely with a mentor or senior colleague with experience in the subject area and/or personal experience of undertaking veterinary postgraduate qualifications.

Programme structure

The Certificate can be taken over 10 years, with each module taking one to two years. It is possible to complete the full programme in one year, though this will depend on the assessment timetable for each module. Modules are structured to allow sequential progression. For most candidates the usual route of study is:

- A-FAVP foundation skills – one year of study.
- B core skills module – one year of study.
- C advanced skills modules (x4) – two years of study per module allowing time to gather cases etc.
- Synoptic assessment to achieve a designated certificate as required.

While it is recommended that the certificate is taken in this way, it is possible to take the modules in any order. Assessment submission links and support materials are provided online via Blackboard Learn.

Career opportunities

Holders of the RCVS Certificate will have the qualities and transferable skills necessary for professional veterinary work. Candidates may elect to progress to a European Diploma following completion of the certificate.

Minimum entry requirements

You must be a member of RCVS, or hold a registrable degree; have at least one year's postgraduate experience working as a veterinary surgeon; and be enrolled with RCVS to take the Certificate in Advanced Veterinary Practice (enrolment valid for 10 years). A list of recognised international qualifications is available online: www.rcvs.org.uk

It is also recommended that candidates who graduated after 2007 will have already declared themselves competent in their 'Year One Competencies', by completing the Professional Development Phase (PDP) before enrolling for any modules.

English language requirements

See page 60.

Fees and funding

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

For funding information see also page 58.

CertAVP Administrator

Tel +44 (0)131 650 6149

Email cert.avp@ed.ac.uk

www.ed.ac.uk/pg/819

Science Communication & Public Engagement



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

Programme description

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

You will experience a variety of science communication and public engagement methodologies and issues. In the process, you will develop critical thinking and self-evaluation skills through reflective practice.

Programme structure

YEAR 1: CERTIFICATE

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

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

YEAR 3: MASTERS

SCPE Critical Analysis/Research Project or SCPE 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 publics.

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

Minimum entry requirements

A UK 2:1 honours degree or above, or its international equivalent (www.ed.ac.uk/international/country), in a science-related subject. Other qualifications, at honours degree level combined with relevant experience, will also be considered on a case-by-case basis.

English language requirements

See page 60.

Fees and funding

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

For funding information see also page 58.

Programme Director Elizabeth Stevenson

Email e.stevenson@ed.ac.uk

www.ed.ac.uk/pg/404

Surgical Sciences



MSc 3 yrs PT

Programme description

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

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

Programme structure

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

YEAR 1

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

YEAR 2

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

YEAR 3

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

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

Career opportunities

This programme is designed to let you study towards your MRCS in a flexible way.

Minimum entry requirements

A UK 2:1 honours degree or above, or its international equivalent (www.ed.ac.uk/international/country), in medicine. You must also demonstrate that you will be in a supervised clinical environment while you are studying.

English language requirements

See page 60.

Fees and funding

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

For funding information see also page 58.

Programme Director Stephen Wigmore

Email essqinfo@rcsed.ac.uk

www.ed.ac.uk/pg/791

Trauma & Orthopaedics



ChM 2 yrs PT

Programme description

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

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

Programme structure

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

YEAR 1

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

YEAR 2

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

Career opportunities

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

Minimum entry requirements

A basic medical qualification recognised by the General Medical Council. You must normally have acquired your MRCS (or equivalent assessment milestone) and be an Advanced Trainee in Trauma and Orthopaedics (ST [specialist training years] 5/6 in UK or equivalent outside UK).

English language requirements

See page 60.

Fees and funding

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

For funding information see also page 58.

Programme Directors John McKinley & Matt Moran

Email chminfo@rcsed.ac.uk

www.ed.ac.uk/pg/792

Urology



ChM 2 yrs PT

Programme description

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

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

Programme structure

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

YEAR 1

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

YEAR 2

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

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

Career opportunities

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

Minimum entry requirements

You must hold a basic medical qualification recognised by the General Medical Council, and would normally have acquired your MRCS (or equivalent assessment milestone) and be an Advanced Trainee in Urology.

English language requirements

See page 60.

Fees and funding

www.ed.ac.uk/student-funding/postgraduate
For funding information see also page 58.

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

See also...

You may also be interested in online distance learning programmes offered by other Schools within the University, particularly Next Generation Drug Discovery, which is offered by the School of Biological Sciences, and Research Informed Science Education, which is offered by the School of Physics & Astronomy.

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

www.ed.ac.uk/pg/808

Vascular & Endovascular Surgery



ChM 2-4 yrs PT

Programme description

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

Programme structure

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

YEAR 1

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

YEAR 2

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

Career opportunities

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

Minimum entry requirements

A basic medical qualification recognised by the General Medical Council. You must normally have acquired MRCS (or equivalent assessment milestone) and be an Advanced Trainee in General or vascular surgery (ST [specialist training years] 3/4 in UK or equivalent outside UK). You should have completed two years of training in vascular surgery and be based within a supervised training surgical programme at the time of commencing the course.

English language requirements

See page 60.

Fees and funding

www.ed.ac.uk/student-funding/postgraduate
For funding information see also page 58.

Programme Director Andy Tambyraja
Email chminfo@rcsed.ac.uk

Postgraduate professional development

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

We are now offering short, focused, credit-bearing programmes that provide training on specific subjects and lead to a University of Edinburgh postgraduate award. The programmes are offered through an interactive, online, distance learning medium enabling you to study in your own time. 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. If you choose this method of study, you will pay on a course-by-course basis.

For further information, see:
www.ed.ac.uk/medicine-vet-medicine/professional-development



On-campus masters and masters by research programmes

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

Taught masters programmes take 12 months to complete. They are taught through lectures, tutorials and seminars, as well as practical and lab work, and conclude with a dissertation.

An MSc by Research is also a 12-month programme, but is much more focused on developing your research skills, making it an excellent stepping stone to a PhD.

www.ed.ac.uk/pg/674

Animal Biosciences

MSc 1 yr FT

Programme description

This programme gives graduates the scientific knowledge and practical skills to carry out research in the emerging area of animal science and 'One Health', by providing foundation knowledge about the functioning of the animal body. We explore applications of basic animal sciences to veterinary and human medicine, the livestock industry and food security. The programme is held in the world-famous Roslin Institute, which is housed in a new state-of-the-art research building on the Easter Bush campus, adjacent to the Royal (Dick) School of Veterinary Studies. You will become part of this Institute, enjoying our world-class reputation for research and a vibrant, successful academic community.

You will acquire expert scientific knowledge and practical skills in animal sciences, veterinary and human medicine, the livestock industry and food security.

Programme structure

The programme involves courses that are a blend of lectures, guided practical studies and independent research. You will also complete your own dissertation.

COURSES

Courses include: *Foundations of Animal Science; Laboratory Tools for the Animal Sciences; Comparative Animal Models; Avian Development and Biology; Advanced Analytical Methods in Animal Biosciences; One Health, Zoonoses and Emerging Infections.*

DISSERTATION

You will prepare a research proposal based on your laboratory (or bioinformatic) research project and will carry out this project under the supervision of a member of the Roslin Institute staff.

Career opportunities

This programme develops theoretical knowledge and practical skills, giving graduates a number of potential career development options in academia or industry. We envisage that at least 50 per cent of our graduates will find a PhD placement after this MSc. Our programme has been tailored to fulfil industry demand for in vivo skills and a wide range of our industrial partners have told us that graduates from this programme will be attractive employees.

Minimum entry requirements

A UK 2:1 honours degree or above, or its international equivalent (www.ed.ac.uk/international/country), in biological, veterinary or medical sciences. You are also required to have a working knowledge of molecular biology and laboratory experience.

English language requirements

See page 60.

Fees and funding

www.ed.ac.uk/student-funding/postgraduate
For funding information see also page 58.

Programme Director Robert Dalziel
Email roslin.mscstudies@roslin.ed.ac.uk

www.ed.ac.uk/pg/238

Applied Animal Behaviour & Animal Welfare

MSc 1 yr FT (2 yrs or 3 yrs PT available for UK/EU students)

Programme description

This programme has popular international appeal and is endorsed by many international organisations for its up-to-date understanding and application of the latest animal welfare methods and practices.

We will provide you with an understanding of animal welfare that can be applied in animal research, management, care, production, inspection, assessment and preparation of legislation. In addition to the core teaching team, many guest lecturers travel to Edinburgh each year to teach on the programme, allowing you to benefit from the experience and knowledge of professionals working throughout the animal behaviour and welfare community.

Our students benefit from the expertise of organisations such as the RSPCA, WSPA, SSPCA and Humane Slaughter Association.

Programme structure

The programme involves taught courses and your own dissertation. Throughout the taught courses, you will take part in many visits to farms and animal facilities. You can complete the programme over one, two or three years.

COURSES

You will study the following courses: *Introduction to Applied Animal Behaviour and Animal Welfare; Biology of Suffering; Animal Cognition and Consciousness; Scientific Methodology; Animal Welfare Applications.*

DISSERTATION

From March until August, you will work on a research project.

Career opportunities

Graduates move on to a variety of jobs such as research technicians, scientific advisors and lecturers. Many will also continue their study and enrol in a PhD.

Minimum entry requirements

A UK 2:1 honours degree or above, or its international equivalent (www.ed.ac.uk/international/country), in animal science, biology, psychology, zoology or veterinary science.

English language requirements

See page 60.

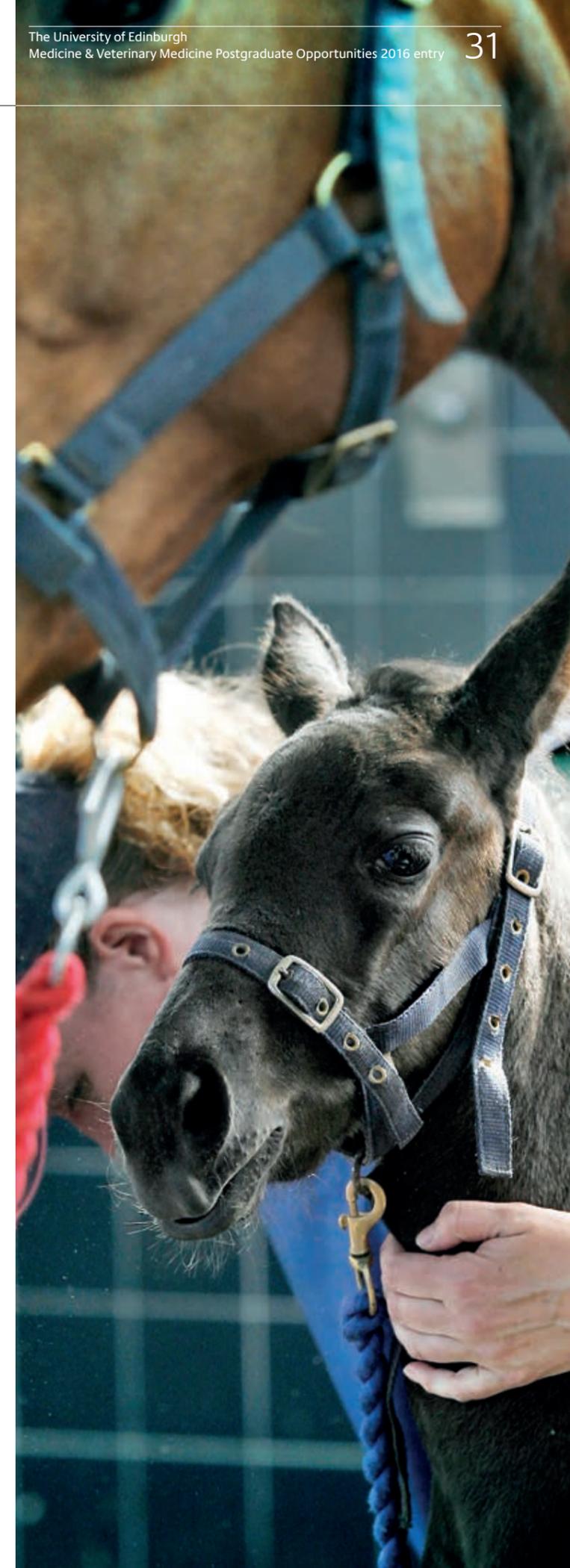
Fees and funding

www.ed.ac.uk/student-funding/postgraduate
For funding information see also page 58.

Programme Director Susan Jarvis
Email susan.jarvis@sruc.ac.uk

“Studying in a large institution provides the opportunity to meet with different people from different countries and an ideal environment to interact and share knowledge.”

Oluyinka Abejide, MSc Animal Biosciences



www.ed.ac.uk/pg/244

Biomedical Sciences

MSc by Research 1 yr FT

Programme description

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

Programme structure

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

PROJECT 1 (SEPTEMBER TO FEBRUARY)

Options: *Cardiovascular Biology; Cell Communication; Genomics & Biological Pathways; Infectious Diseases; Mechanisms of Inflammatory Disease; Reproductive Science 1.*

PROJECT 2 (APRIL TO AUGUST)

Options: *Biomedical Imaging; Cancer Biology; Genes & Disease; Genomic Technologies; Molecular & Cellular Mechanism of Inflammation; Reproductive Science 2.*

You may also be able to undertake projects in *Neuroscience, Infectious Diseases, Cancer Cell Biology*, or *From Ovum to Organism: How Bodies Build Themselves*, with the permission of the programme director. You would also be required to attend the taught element of another theme as appropriate.

RESEARCH PROPOSAL

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

Career opportunities

This programme is an excellent stepping stone to a PhD, or a career in biomedical research or industry.

Minimum entry requirements

A UK 2:1 honours degree or above, or its international equivalent (www.ed.ac.uk/international/country), in the biological, chemical or physical sciences.

English language requirements

See page 60.

Fees and funding

www.ed.ac.uk/student-funding/postgraduate
For funding information see also page 58.

Programme Director Andrew Hall
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www.ed.ac.uk/pg/205

Cardiovascular Biology

MSc by Research 1 yr FT

Programme description

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

Programme structure

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

Career opportunities

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

Minimum entry requirements

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

English language requirements

See page 60.

Fees and funding

www.ed.ac.uk/student-funding/postgraduate
For funding information see also page 58.

Programme Director Matthew Bailey
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www.ed.ac.uk/pg/887

Dental Implantology

MSc 2 yrs PT (available for UK/EU students)

Programme description

This programme is aimed at practising dentists with several years of experience. It offers theoretical, clinical, and research components that combine to ensure graduates have an in-depth knowledge and the practical skills to place dental implants in professional practice.

Dental implantology is concerned with rehabilitation of patients with missing teeth by the implantation of artificial materials. This is an advanced course that aims to provide a sound theoretical foundation for implantology practice and also includes some practical clinical exposure/training in dental implantology.

The programme of study covers:

- surgical techniques and treatment planning;
- surgical anatomy and bone physiology;
- biomaterial science;
- research methods; and
- the theoretical aspects of patient care.

The Edinburgh Dental Institute (EDI) is one of the leading dental centres in the UK to use modern dental implants and have clinical and technical expertise in this discipline. Currently we treat more than 100 new patients per year. Staff from both restorative dentistry and oral surgery are involved with course development and delivery as well as non-clinical staff from the University.

Programme structure

YEAR 1

Surgical Techniques in Dental Implantology; Strategies for Treating Tooth Loss; Biology and Biomaterials for Oral Surgery.

YEAR 2

Clinical Practice in Implant Dentistry; Research Project.

Career opportunities

This programme provides career opportunities for dentists who have been in general practice and now wish to gain specialist skills in the placement of implants. More high street practices are considering the benefits of offering complex implant treatments, so the specialist skills to place implants are very much sought after. Equally, in hospital environments oral surgery and restorative units have a heightened interest in implantology.

Minimum entry requirements

Applicants must be dentists who are practising in the UK. This is due to the fact that attendance is on a part-time basis (two days per month over two years). It is essential that all candidates have good basic surgical and clinical skills in dentistry. A minimum of three years of hospital or general practice in dentistry would be essential.

English language requirements

See page 60.

Fees and funding

www.ed.ac.uk/student-funding/postgraduate
For funding information see also page 58.

Programme Director Dr Issam Bakri
Tel +44 (0)131 536 3979
Email epdi@ed.ac.uk

www.ed.ac.uk/pg/648

Human Anatomy

MSc 1 yr FT

Programme description

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

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

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

Programme structure

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

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

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

Career opportunities

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

Minimum entry requirements

A UK 2:1 honours degree or above, or its international equivalent (www.ed.ac.uk/international/country), in biological, veterinary or medical sciences.

English language requirements

See page 60.

Fees and funding

www.ed.ac.uk/student-funding/postgraduate
For funding information see also page 58.

Programme Director Gordon Findlater
Email gordon.findlater@ed.ac.uk

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

Chloe Gelder, MSc Human Anatomy 2011

www.ed.ac.uk/pg/196

Integrative Neuroscience

MSc by Research 1 yr FT

Programme description

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

Programme structure

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

OPTION COURSES

Option courses include: *Developmental Neurobiology; Neural Circuits; Neurodegeneration and Regeneration.*

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

RESEARCH PROJECT

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

Career opportunities

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

Minimum entry requirements

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

English language requirements

See page 60.

Fees and funding

www.ed.ac.uk/student-funding/postgraduate
For funding information see also page 58.

Programme Director Thomas Becker
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www.ed.ac.uk/pg/245

Medical Sciences

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

Programme description

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

Programme structure

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

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

Career opportunities

Around a quarter of our students continue to PhD study. Those who choose to return to clinical practice do so with a broader experience of research than is afforded by the undergraduate clinical medicine curriculum.

Minimum entry requirements

An undergraduate degree, or its international equivalent (see www.ed.ac.uk/international/country), in medicine.

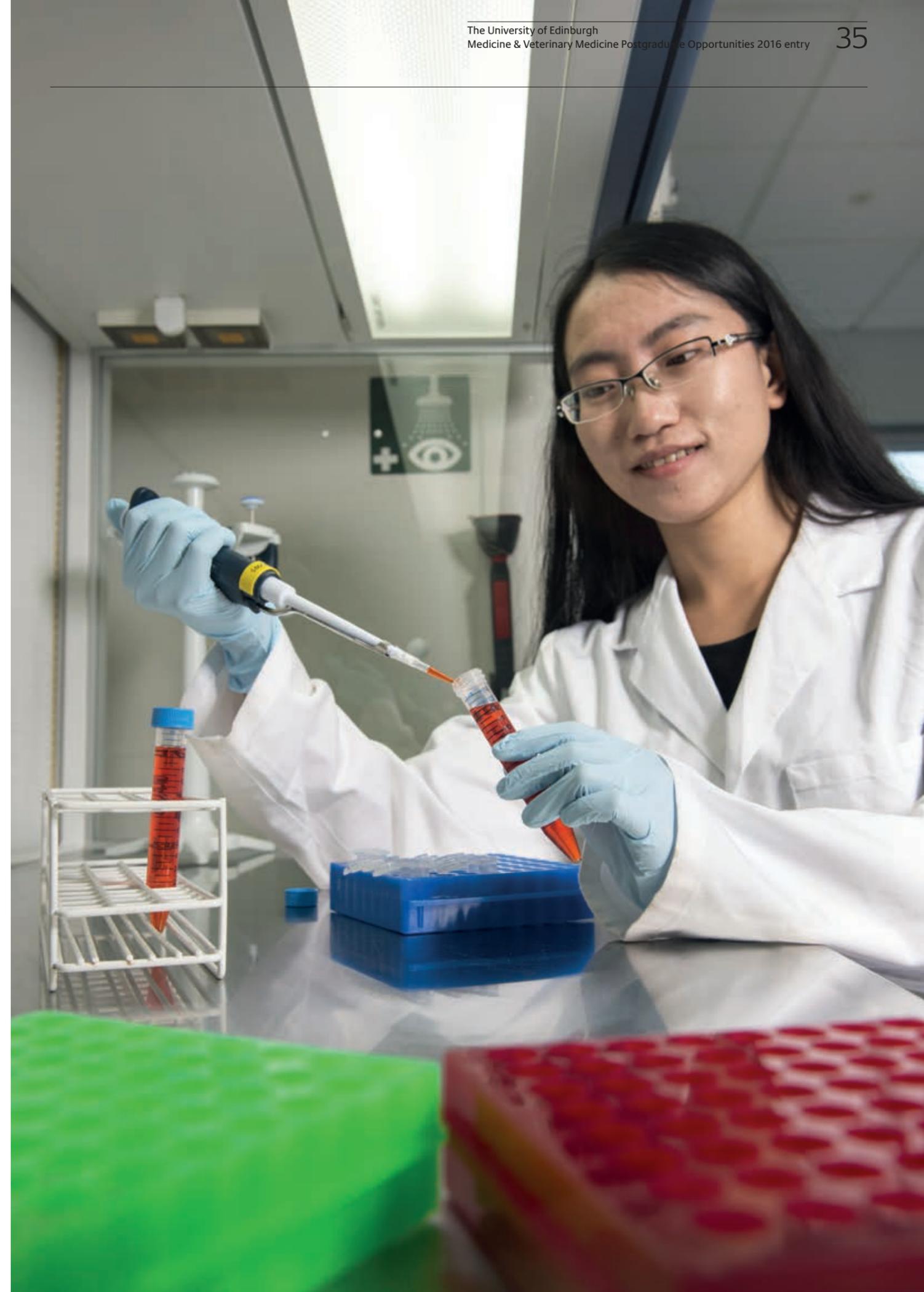
English language requirements

See page 60.

Fees and funding

www.ed.ac.uk/student-funding/postgraduate
For funding information see also page 58.

Programme Director Richard Weller
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www.ed.ac.uk/pg/441

Oral Surgery

MClinDent 2 yrs FT

Programme description

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

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

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

Programme structure

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

Career opportunities

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

Minimum entry requirements

A Bachelor of Dental Surgery degree, or the equivalent primary dental qualification, plus a minimum of two years' postgraduate experience is required.

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 60.

Fees and funding

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

For funding information see also page 58.

Programme Director Issam Bakri

Email epdi@ed.ac.uk

www.ed.ac.uk/pg/227

Orthodontics

MClinDent 2 yrs FT

Programme description

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

You will learn to:

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

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

Programme structure

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

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

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

Career opportunities

This programme has been designed for orthodontist specialists.

Minimum entry requirements

A Bachelor of Dental Surgery degree, or an equivalent primary dental qualification, plus a minimum of two years' postgraduate experience is required.

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

English language requirements

See page 60.

Fees and funding

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

For funding information see also page 58.

Programme Director Niall McGuinness

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www.ed.ac.uk/pg/228

Paediatric Dentistry

MClinDent 2 yrs FT

Programme description

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

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

Your syllabus will include:

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

Programme structure

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

Career opportunities

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

Minimum entry requirements

A Bachelor of Dental Surgery degree, or the equivalent primary dental qualification, plus a minimum of two years' postgraduate experience is required.

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 60.

Fees and funding

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

For funding information see also page 58.

Programme Director Antoniella Busuttill-Naudi

Email epdi@ed.ac.uk

www.ed.ac.uk/pg/229

Prosthodontics

MClinDent 2 yrs FT

Programme description

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

The programme addresses five components:

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

Programme structure

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

Career opportunities

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

Minimum entry requirements

A Bachelor of Dental Surgery degree, or the equivalent primary dental qualification, plus a minimum of two years' postgraduate experience is required.

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 60.

Fees and funding

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

For funding information see also page 58.

Programme Director Graeme Lillywhite

Email epdi@ed.ac.uk

Programme Director Issam Bakri

Email epdi@ed.ac.uk



www.ed.ac.uk/pg/203

Public Health

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

Programme description

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

You will gain an understanding of how different scientific disciplines can be used to investigate and then develop the best professional practice in epidemiology, public health and social science, ethics and health. This programme is 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

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

OPTION COURSES

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

Career opportunities

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

Minimum entry requirements

A UK 2:1 honours degree or above, or its international equivalent (www.ed.ac.uk/international/country), e.g. China 80-85%; India 60%; Nigeria 3.5/Upper Second; North America 3.25. Overseas applicants from regions not listed here can request specific entry requirements from the programme team. For those with non-health related backgrounds or those who have been out of full-time education for some time, both academic qualifications and work experience will be considered.

English language requirements

See page 60.

Fees and funding

www.ed.ac.uk/student-funding/postgraduate
For funding information see also page 58.

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

www.ed.ac.uk/pg/797

Regenerative Medicine: Clinical & Industrial Delivery

MSc 1 yr FT

Programme description

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

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

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

Programme structure

The programme contains both taught and independent project components.

COMPULSORY COURSES

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

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

Career opportunities

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

Minimum entry requirements

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

English language requirements

See page 60.

Fees and funding

www.ed.ac.uk/student-funding/postgraduate
For funding information see also page 58.

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

www.ed.ac.uk/pg/204

Reproductive Sciences

MSc by Research 1 yr FT

Programme description

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

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

Programme structure

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

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

Career opportunities

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

Minimum entry requirements

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

English language requirements

See page 60.

Fees and funding

www.ed.ac.uk/student-funding/postgraduate
For funding information see also page 58.

Programme Director Simon Riley
Email simon.c.riley@ed.ac.uk

www.ed.ac.uk/pg/790

Science Communication & Public Engagement

MSc 1 yr FT

Programme description

The field of science communication and public engagement with science is currently enjoying unprecedented growth. This is driven by a greater need to demonstrate the impact of publicly funded research, the need for research to be valued, increased government scrutiny and a desire for a stronger evidence base for policy. Many career opportunities are emerging at the interface between scientific research and various public groups.

You will experience a variety of science communication and public engagement issues and methodologies. In the process, you will develop critical thinking skills and self-evaluation skills through reflective practice. The learning gained from one course is transferable to other courses, thus ensuring interconnection across the programme.

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

Programme structure

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

COMPULSORY COURSES

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

PLACEMENTS

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

Career opportunities

There has been a significant rise in opportunities available for scientists with the specialist knowledge, skills and attributes necessary to pursue roles at the interface between scientific research and the public. These roles can be found in, for example, higher education institutions, museums, science centres, learned societies and consultancies for democratic decision-making. Examples of specific roles include Engagement Managers, Information and Education Officers, and Policy and Knowledge Brokers.

Minimum entry requirements

A UK 2:1 honours degree or above, or its international equivalent (www.ed.ac.uk/international/country), in a science-related subject is required. Other qualifications, at honours degree level combined with relevant experience, will also be considered on a case-by-case basis.

English language requirements

See page 60.

Fees and funding

www.ed.ac.uk/student-funding/postgraduate
For funding information see also page 58.

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

www.ed.ac.uk/pg/233

Transfusion, Transplantation & Tissue Banking*

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

Programme description

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

The programme covers the following areas:

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

Programme structure

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

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

Career opportunities

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

Minimum entry requirements

A UK 2:1 honours degree or above, or its international equivalent (www.ed.ac.uk/international/country), in a relevant biological science. Applicants should also, preferably, have at least two years' experience of working in a relevant discipline, in a healthcare setting, and currently be working in a transfusion, transplantation or tissue-banking environment.

English language requirements

See page 60.

Fees and funding

www.ed.ac.uk/student-funding/postgraduate
For funding information see also page 58.

Programme Director Anne Thomson
Email anne.thomson2@nhs.net

*The next intake for this programme will be September 2017

www.ed.ac.uk/pg/240

Veterinary Sciences

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

Programme description

This programme is the only one of its kind in the UK. It is designed for high-achieving veterinary graduates from clinical backgrounds who want to explore and benefit from veterinary research, perhaps with a view to pursuing a PhD or a career in research.

The programme offers you the opportunity to undertake a research project in a laboratory or department relevant to your specialism. The choice of research projects is wide, and ranges from bench research to clinical research. You will need to secure a supervisor and decide upon your project before starting the programme. Subjects include:

- Epidemiology
- Gene delivery
- Genetics
- Immunology
- Microbiology
- Neuroscience
- Parasitology
- Pathology
- Welfare and zoo animals.

Programme structure

The programme begins with a month of teaching to give you an overview of the whole range of techniques used in medical research. The first two weeks comprise lectures on subjects from stem cell biology to ethics and from clinical trials and statistics training. This is followed by two weeks of practical workshops in cell biology and molecular medicine, learning practical techniques including basic tissue culture and how to run polymerase chain reactions and western blots. After the first month of studying you will move to a laboratory most relevant to your own specialism.

Career opportunities

Most MVetSci graduates go on to study for a PhD. Those who choose to return to clinical practice do so with a broader experience of research than is afforded by the undergraduate clinical veterinary curriculum.

Minimum entry requirements

An undergraduate degree, or its international equivalent (see www.ed.ac.uk/international/country), in clinical veterinary medicine. Intercalating undergraduate veterinary students may also be eligible to apply.

English language requirements

See page 60.

Fees and funding

www.ed.ac.uk/student-funding/postgraduate
For funding information see also page 58.

Programme Director Natalie Waran
Email natalie.waran@ed.ac.uk

See also...

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

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

A world-class research experience

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

Little France campus

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

Research centres

BHF Centre for Cardiovascular Science:
www.cvs.ed.ac.uk

MRC Centre for Inflammation Research:
www.cir.ed.ac.uk

MRC Centre for Reproductive Health:
www.crh.ed.ac.uk

Clinical Research Imaging Centre:
www.cric.ed.ac.uk

MRC Centre for Regenerative Medicine:
www.crm.ed.ac.uk

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

Easter Bush campus

Easter Bush is home to the University's renowned Royal (Dick) School of Veterinary Studies and the world-famous Roslin Institute. The site was redeveloped in 2011, providing both institutions with new and improved buildings that not only provide cutting-edge environments for teaching and research, but also benefit from close proximity to veterinary hospitals and practices. Research carried out at Roslin seeks to tackle some of the most pressing issues in animal health and welfare and their implications for human health. The Institute's researchers investigate the health and welfare of animals, and applications of basic animal sciences in human and veterinary medicine, the livestock industry and food security.

The Royal (Dick) School of Veterinary Studies:
www.ed.ac.uk/vet

The Roslin Institute:
www.roslin.ed.ac.uk

Western General campus

The Western General site is home to the MRC Institute for Genetics and Molecular Medicine (IGMM), an exciting development bringing together the MRC Human Genetics Unit, the Edinburgh Cancer Centre and the Centre for Genomic and Experimental Medicine. With more than 600 research and support scientists, IGMM is one of the largest centres for human genetics and molecular medicine in the world. The IGMM's priorities are basic through to clinical research, across the major themes of brain biology and disease, cancer, common disease genetics and paediatrics. All are underpinned by strong basic science. A £3.5 million award from the Wellcome-Wolfson Foundation is allowing the IGMM to create a dynamic new centre to support research in the emerging discipline of systems medicine. The IGMM supports both three- and four-year PhD studentships offering an outstanding training to both basic and clinical scientists.

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

Research centres

Edinburgh Cancer Research Centre:
www.ecrc.ed.ac.uk

Centre for Genomic and Experimental Medicine:
www.cgem.ed.ac.uk

The MRC Human Genetics Unit:
www.hgu.mrc.ac.uk

Central Area campus

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

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

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

Research centres

Centre for Clinical Brain Sciences:
www.ccbs.ed.ac.uk

Centre for Cognitive and Neural Systems:
www.ccns.ed.ac.uk

Centre for Neuroregeneration:
www.cnr.ed.ac.uk

Centre for Integrative Physiology:
www.ed.ac.uk/integrative-physiology

Centre for Population Health Sciences:
www.cphs.mvm.ed.ac.uk

Edinburgh Infectious Diseases

Edinburgh Infectious Diseases is the organisational hub for an extensive community of infectious disease scientists working across several different campuses in the city. This is a large and diverse group with 550 research workers and graduate students and more than 70 Principal Investigators: www.eid.ed.ac.uk

Research centres

Division of Pathway Medicine:
www.ed.ac.uk/pathway-medicine

Global Health Academy:
www.ed.ac.uk/global-health

The Roslin Institute:
www.roslin.ed.ac.uk

Royal (Dick) School of Veterinary Studies:
www.ed.ac.uk/vet

National CJD Surveillance Unit:
www.cjd.ed.ac.uk



THE UNIVERSITY of EDINBURGH

Case study: Edinburgh's research with impact

The GRACE risk score

There are more than 100,000 heart attacks in the UK each year, and one in five patients is likely to die within five years of their initial heart attack. Keith Fox, Professor of Cardiology at the University's Centre for Cardiovascular Science, has dedicated more than a decade of his successful career to researching a critical form of cardiovascular disease, using the latest equipment and other resources at the Centre to lower the risk of heart attack in susceptible subjects.

Project background

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

Project results

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

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

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

Research opportunities

All of our research areas are available to study at PhD level, and many also offer MSc by Research opportunities.

An MSc by Research degree gives students an excellent grounding in research, and can serve as a stepping stone to a PhD.

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

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

Entry requirements

The minimum entry requirement for our research programmes is an undergraduate degree, with an excellent or very good classification (equivalent to first or upper second class honours in the UK). Higher degrees such as DDS and MD have additional requirements. Please view their programme entries online for full details.

www.ed.ac.uk/pg/208

Cardiovascular Science

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

Research profile

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

English language requirements

See page 60.

Fees and funding

www.ed.ac.uk/student-funding/postgraduate
For funding information see also page 58.

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

Research profile

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

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

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

English language requirements

See page 60.

Fees and funding

www.ed.ac.uk/student-funding/postgraduate
For funding information see also page 58.

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

www.ed.ac.uk/pg/235

Clinical Brain Sciences/ Clinical Neurosciences

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. CCBS is a major University interdisciplinary group that comprises the Division of Clinical Neurosciences (www.ed.ac.uk/clinical-brain-sciences) and the Division of Psychiatry (www.ed.ac.uk/psychiatry).

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

- human stem cells;
- disease modelling;
- advanced clinical imaging;
- epidemiological-based observational disease cohort studies;
- clinical trials – first 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 their thesis committee. We offer a transferable skills programme and project-specific courses. PhD meetings and an annual CCBS Day offer valuable opportunities for interdisciplinary collaboration.

English language requirements

See page 60.

Fees and funding

www.ed.ac.uk/student-funding/postgraduate
For funding information see also page 58.

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

www.ed.ac.uk/pg/861

Clinical Education

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

Research profile

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

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

Some of our current research focuses on:

- Faculty development;
- Assessment and feedback in medical education;
- Psychometrics;
- Learning outcome development and mapping;
- Students learning to teach and Peer Assisted Learning (PAL);
- Preparation for practice;
- International medical education; and
- Clinical skills.

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

English language requirements

See page 60.

Fees and funding

www.ed.ac.uk/student-funding/postgraduate
For funding information see also page 58.

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



www.ed.ac.uk/pg/826

Clinical Veterinary Sciences

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

Research profile

Our research aims to enhance understanding of disease processes in animals and to translate that understanding into improved therapies for both animal and human disease.

Research focuses on:

- the improvement of health and welfare of domestic animal species;
- the protection of public health;
- alleviation of human poverty (in the context of tropical diseases); and
- providing holistic solutions to global challenges in human and veterinary medicine and the livestock industry.

Most of our research is carried out within the Roslin Institute. The veterinary campus at Easter Bush includes the state-of-the-art Roslin Institute building, the Small Animal and Large Animal Hospitals, and the Riddell-Swan Cancer Imaging Centre, as well as the Royal (Dick) School of Veterinary Studies. Our facilities include: rodent, bird and livestock animal units and associated lab areas; comprehensive bioinformatic and genomic capability; a range of bioimaging facilities; extensive molecular biology and cell biology labs; cafés and an auditorium where we regularly host workshops and invited speakers.

English language requirements

See page 60.

Fees and funding

www.ed.ac.uk/student-funding/postgraduate
For funding information see also page 58.

Contact Postgraduate Secretary
Email vetpgresearch@ed.ac.uk

www.ed.ac.uk/pg/401

Cognitive & Neural Systems

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

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

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

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

English language requirements

See page 60.

Fees and funding

www.ed.ac.uk/student-funding/postgraduate
For funding information see also page 58.

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

www.ed.ac.uk/pg/211

Dentistry (PhD)

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

Research profile

There are opportunities for both full-time and part-time research. In addition to our formal research degrees, 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 degrees provide training in specific research methodologies. Those registered for formal research degrees also have the opportunity for formal generic training in research skills, provided within the College.

English language requirements

See page 60.

Fees and funding

www.ed.ac.uk/student-funding/postgraduate
For funding information see also page 58.

Contact Jackie McGurk
Email epdi@ed.ac.uk

www.ed.ac.uk/pg/901

Dentistry (DClinDent)

DClinDent 12-36 mths FT
Oral Surgery; Orthodontics; Paediatric Dentistry; Prosthodontics

Programme description

Our DClinDent programmes in Oral Surgery, Orthodontics, Paediatric Dentistry and Prosthodontics are suitable for individuals already holding a taught MClinDent/MSc. They allow the pursuit of specialist training, attainment of a Taught Professional Doctorate in the chosen clinical discipline and preparation for the Speciality Membership Examinations of one of the Royal College of Surgeons.

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

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

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

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

Entry requirements

A taught MClinDent from the University of Edinburgh, or a taught MClinDent/MSc from another UK/EU or international institution – 360 SCQF credits, with at least 240 credits held at Level 12 in the relevant MClinDent/MSc, are required.

English language requirements

See page 60.

Fees and funding

www.ed.ac.uk/student-funding/postgraduate
For funding information see also page 58.

Contact Jennie Foley
Email epdi@ed.ac.uk

www.ed.ac.uk/pg/829

Developmental Biology

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

Research in the Division of Developmental Biology aims to enhance fundamental knowledge of the control of cellular growth and differentiation aiming to underpin the development of better disease intervention strategies. We will advance our understanding of function in these essential biological processes through mechanistic studies at the cell, tissue and whole animal level with particular focus on:

- animal stem cells;
- tissue and organ development;
- tissue damage and repair; and
- regulatory networks in development.

Normal growth of an animal, from the fertilised egg through to end-of-life maturity, requires concerted action of all the genes found in the animal genome. Not all genes are active at any one stage or in any one cell type. Gene expression is dynamic yet programmed. Sometimes this programming goes awry and disease ensues. Research in the Division of Developmental Biology aims to characterise, understand and ultimately exploit the ever-changing profile of gene expression found in mammals. This will allow the development of a better understanding of biology, which in turn will enable new biotech, agricultural and biomedical advances to become reality.

English language requirements

See page 60.

Fees and funding

www.ed.ac.uk/student-funding/postgraduate
For funding information see also page 58.

Contact Postgraduate Secretary
Email vetpgresearch@ed.ac.uk

Fees funding

More than 64 per cent of our research students received funding for their tuition fees in 2014/15.

www.ed.ac.uk/pg/889

Doctor of Dental Surgery

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

Programme description

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

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

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

Training

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

Facilities

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

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

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

Minimum entry requirements

Candidates must meet the following criteria:

- hold a qualification which is registrable with either the General Dental Council or the General Medical Council or both;
- have been engaged since graduation for at least two years either in scientific work bearing directly on the applicant's profession, or in the practice of Dentistry or other related disciplines;
- perform their research work in the south-east of Scotland (for this purpose, areas covered by the Borders, Fife and Lothian Health Boards); and
- be either an employed member of staff at 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.

Additionally, all applicants are required to meet our standard postgraduate research admissions requirements.

English language requirements

See page 60.

Fees and funding

www.ed.ac.uk/student-funding/postgraduate
For funding information see also page 58.

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

www.ed.ac.uk/pg/833

Doctor of Medicine

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

Research profile

The MD is a higher degree undertaken by clinically qualified staff normally during their postgraduate medical training. A thesis for the degree of MD must deal with one or more of the subjects of study in the curriculum for the degrees of MBChB or with subjects arising directly from 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 qualification that is registrable with the General Medical Council. Applicants must have been engaged, since graduation for at least one year, either in scientific work bearing directly on the candidate's profession, or in the practice of medicine or surgery, and will perform their work in the south-east of Scotland, either employed as a member of staff of the University of Edinburgh; or as an NHS employee or a research worker, employed, self-financed or grant-funded, in the University of Edinburgh, an associated institution or an NHS establishment.

English language requirements

See page 60.

Fees and funding

www.ed.ac.uk/student-funding/postgraduate
For funding information see also page 58.

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

www.ed.ac.uk/pg/237

Edinburgh Cancer Research UK Centre

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

Research profile

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

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

English language requirements

See page 60.

Fees and funding

www.ed.ac.uk/student-funding/postgraduate
For funding information see also page 58.

Contact Pauline McDonald
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www.ed.ac.uk/pg/830

Genetics & Genomics

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

Research in Genetics and Genomics aims to advance understanding of complex animal systems and the development of improved predictive models through the application of numerical and computational approaches in the analysis, interpretation, modelling and prediction of complex animal systems from the level of the DNA and other molecules, through cellular and gene networks, tissues and organs to whole organisms and interacting populations of organisms.

The biology and traits of interest include: growth and development, body composition, feed efficiency, reproductive performance, responses to infectious disease and inherited diseases.

Research encompasses basic research in bioscience and mathematical biology and strategic research to address grand challenges, such as food security. Research is focused on, but not restricted to, target species of agricultural importance including cattle, pigs, poultry, sheep, farmed fish such as salmon, and companion animals. The availability of genome sequences and the associated genomics toolkits enable genetics research in these species.

English language requirements

See page 60.

Fees and funding

www.ed.ac.uk/student-funding/postgraduate
For funding information see also page 58.

Contact Postgraduate Secretary
Email vetpgresearch@ed.ac.uk

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

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



THE UNIVERSITY of EDINBURGH

Case study: Edinburgh's research with impact

Dolly the Sheep – the first cloned adult mammal

In 1996, Professor Sir Ian Wilmut (Inaugural Director of the MRC Centre for Regeneration and Professor at the College of Medicine & Veterinary Medicine at the University of Edinburgh), and his colleagues, made world headlines with the birth of Dolly the sheep, the first mammal to be cloned using adult somatic cells. Since then, the team at the Centre has continued to lead the way in cloning research.

Project background

The team's success with Dolly followed its improvements to the single cell nuclear transfer (SCNT) technique used in the cloning process. SCNT cloning is the only technology available that enables generation of 99.8 per cent genetically identical offspring from selected individuals of adult animals (including sterilized animals). As such, it is an efficient multiplication tool to support specific breeding strategies of farm animals with exceptionally high genetic value. The work of the team at the Centre has focused on developing this highly sophisticated technology and increasing the range of possible applications.

Project results

Dolly subsequently became a global scientific icon, and SCNT technology created by the University's researchers has spread around the world. It has been widely adopted and used to create clones of other animals, such as livestock, which provides the world with more food and other animal products by enabling the growth of large quantities of the most productive, disease-resistant animals. It has also been used to conserve several animal breeds: for example, in 2012 an increasingly rare Himalayan pashmina goat breed was successfully cloned as part of the National Agricultural Innovation Project of the Indian Council of Agricultural Research. With more than 10 million people reliant on the \$85 million shawl industry, served by the availability of the exceptionally fine wool produced by these rare animals, the value of a successful cloning programme is evident.

Dolly subsequently became a global scientific icon, and SCNT technology created by the University's researchers has spread around the world.

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

www.ed.ac.uk/pg/838

Genetics & Molecular Medicine

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

Research profile

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

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

English language requirements

See page 60.

Fees and funding

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

For funding information see also page 58.

Programme Director Professor Cathy Abbott

Email catherine.abbott@igmm.ed.ac.uk

www.ed.ac.uk/pg/839

Genomic & 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 Genomic and Experimental Medicine (CGEM) is part of the MRC/University of Edinburgh Institute of Genetics and Molecular Medicine (IGMM).

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

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 60.

Fees and funding

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

For funding information see also page 58.

Programme Director Dr Kathy Evans

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www.ed.ac.uk/pg/214

Geriatric Medicine

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

Research profile

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

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

Royal Infirmary of Edinburgh

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

Western General Hospital

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

Borders General Hospital

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

English language requirements

See page 60.

Fees and funding

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

For funding information see also page 58.

Contact Gillian Mead

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www.ed.ac.uk/pg/698

Global Health

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

Research profile

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

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

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

www.ed.ac.uk/global-health

English language requirements

See page 60.

Fees and funding

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

For funding information see also page 58.

Contact Liz Grant

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www.ed.ac.uk/pg/831

Infection & Immunity

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

Research on Infection and Immunity aims to enhance understanding of the mechanisms of host defence against infection, and translate this understanding into prevention and treatment. The research programmes include a wide range of activities including studies of host/pathogen interactions (including work on viruses, bacteria, parasites and spongiform encephalopathy agents), the immune systems of animals and how they respond to pathogen challenge, genetic resistance to disease and epidemiology of disease. These activities are underpinned by major programmes in animal genomics and bioinformatics.

English language requirements

See page 60.

Fees and funding

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

For funding information see also page 58.

Contact Postgraduate Secretary

Email vetpgresearch@ed.ac.uk

www.ed.ac.uk/pg/195

Infectious Diseases

MSc by Research 1 yr FT

Programme description

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

- antibiotic resistance and hospital-acquired infections;
- arthropod vector biology and vectorborne diseases;
- epidemiology and mathematical modelling of animal and human infections;
- functional genomics and bioinformatics;
- molecular diagnosis and point of care detection of infectious diseases;
- the immunology of bacterial and parasitic infections (including major tropical diseases such as malaria, lymphatic filariasis and river blindness);
- the immunology of ruminant infections (for example Johne's Disease); and
- the pathogenesis of prion and viral diseases (animal and human, including herpes and HIV);

Programme structure

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

Career opportunities

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

Minimum entry requirements

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

English language requirements

See page 60.

Fees and funding

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

For funding information see also page 58.

Programme Director Kim Picozzi

Email kim.picozzi@ed.ac.uk

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

Kim Martin, PhD Biomedical Sciences

www.ed.ac.uk/pg/215

Inflammation

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

Research profile

The Centre for Inflammation Research (CIR) was established in 1998. It aims to promote the prevention, diagnosis and treatment of inflammatory diseases through interdisciplinary study of the initiation, regulation and resolution of inflammatory responses and provision of an outstanding environment for research training in the field. CIR investigators aim to characterise and manipulate key control points in inflammation. We focus on:

- inhibiting the initiation of inflammation by blocking immunologically specific triggers and by modulating cellular and tissue responses to injurious stimuli;
- finding new approaches to promote beneficial regulation of established inflammatory responses so as to limit tissue injury; and
- promoting safe resolution of inflammation and restoration of the structure and function of the perturbed tissue.

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

English language requirements

See page 60.

Fees and funding

www.ed.ac.uk/student-funding/postgraduate
For funding information see also page 58.

Contact Karen Colvin
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www.ed.ac.uk/pg/400

Integrative Physiology

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

Research profile

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

English language requirements

See page 60.

Fees and funding

www.ed.ac.uk/student-funding/postgraduate
For funding information see also page 58.

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

www.ed.ac.uk/pg/832

Neurobiology

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 Neurobiology division conducts research in the fields of neurobiology and neuropathology. Our researchers investigate mechanisms that regulate normal brain function as well as the causes and consequences of dysfunction during ageing and in acute or chronic neurodegenerative disease.

Our programme of research uses a wide spectrum of approaches, from the molecular to the whole animal. We address how multiple systems in the periphery and multiple cell types in the central nervous system impact on the function and dysfunction of the brain.

Some of our current research focuses on:

- identifying new transmissible spongiform encephalopathy (TSE) strains and their zoonotic potential, examining routes of transmission and the genetics of host susceptibility to disease;
- characterising the pathways and cells involved in the uptake and transport of TSE agents to the brain using rodent models and our natural scrapie sheep flock;
- understanding mechanisms of neurodegeneration associated with both chronic and acute neurodegenerative disease using unique disease models;
- understanding the long-term consequences of adverse experiences in early life on future health; and
- identifying novel mechanisms regulating homeostasis and responses to stress in neuronal networks.

English language requirements

See page 60.

Fees and funding

www.ed.ac.uk/student-funding/postgraduate
For funding information see also page 58.

Contact Postgraduate Secretary
Email vetpgresearch@ed.ac.uk

www.ed.ac.uk/pg/200

Neuroscience

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

Research profile

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

English language requirements

See page 60.

Fees and funding

www.ed.ac.uk/student-funding/postgraduate
For funding information see also page 58.

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

www.ed.ac.uk/pg/218

Orthopaedic & Trauma Medicine

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

Research profile

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

English language requirements

See page 60.

Fees and funding

www.ed.ac.uk/student-funding/postgraduate
For funding information see also page 58.

Contact Hamish Simpson
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www.ed.ac.uk/pg/506

Pathology

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

Research profile

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

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

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

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

English language requirements

See page 60.

Fees and funding

www.ed.ac.uk/student-funding/postgraduate
For funding information see also page 58.

Contact Sarah Howie
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www.ed.ac.uk/pg/399

Pathway Medicine

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

Research profile

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

The DPM has two main research themes:

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

English language requirements

See page 60.

Fees and funding

www.ed.ac.uk/student-funding/postgraduate
For funding information see also page 58.

Contact Douglas Roy
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www.ed.ac.uk/pg/213

Population Health Sciences

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

Research profile

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

English language requirements

See page 60.

Fees and funding

www.ed.ac.uk/student-funding/postgraduate
For funding information see also page 58.

Contact Stuart Mallen
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www.ed.ac.uk/pg/507

Psychiatry

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

Research profile

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

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

In psychiatric genetics, we take part in international genome wide association studies and focus on analyses of candidate genes including DISC-1, GRIK-4, ABCA13 and NPA3 3. We also have a major focus on the functional genetics of psychiatric illness and have investigated the effects of variation in genes such as NRG1 and DISC1 on brain structure and function, as well as their programming during development. We have demonstrated, for the first time, that structural and functional MRI changes precede the onset of psychosis and could be used as a diagnostic aid.

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

English language requirements

See page 60.

Fees and funding

www.ed.ac.uk/student-funding/postgraduate
For funding information see also page 58.

Contact Andrew McIntosh

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www.ed.ac.uk/pg/695

Regenerative Medicine

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

Research profile

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

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

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

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

English language requirements

See page 60.

Fees and funding

www.ed.ac.uk/student-funding/postgraduate
For funding information see also page 58.

Contact Kelly Douglas

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www.ed.ac.uk/pg/220

Rehabilitation Studies

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

Rehabilitation Studies has considerable expertise in measuring outcomes in the context of disabling disease and has major interests in cardiac, locomotor and neurological disorders and their rehabilitation. A driving-assessment facility and a national head-injury rehabilitation centre are incorporated within the clinical services.

English language requirements

See page 60.

Fees and funding

www.ed.ac.uk/student-funding/postgraduate
For funding information see also page 58.

Contact Alan Carson

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www.ed.ac.uk/pg/221

Reproductive Health

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

Research profile

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

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

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

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

English language requirements

See page 60.

Fees and funding

www.ed.ac.uk/student-funding/postgraduate
For funding information see also page 58.

Contact Dean Ainscough

Email dean.ainscough@ed.ac.uk



THE UNIVERSITY of EDINBURGH

Case study: Edinburgh's research with impact

Enabling women to have children, following cancer treatments

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

Project background

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

Project results

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

Ovarian cryopreservation, or oncofertility, has become widespread in clinical practice worldwide.

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

www.ed.ac.uk/pg/223

Respiratory Medicine

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

Research profile

The major areas of research interest are:

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

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

English language requirements

See page 60.

Fees and funding

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

For funding information see also page 58.

Contact Karen Colvin

Email karen.colvin@ed.ac.uk

www.ed.ac.uk/pg/884

Science Communication

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

Programme description

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

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

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

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

Minimum entry requirements

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

English language requirements

See page 60.

Fees and funding

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

For funding information see also page 58.

Supervisor Elizabeth Stevenson

Tel +44 (0)131 650 3258

Email e.stevenson@ed.ac.uk

www.ed.ac.uk/pg/835

Surgery

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

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

Research profile

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

English language requirements

See page 60.

Fees and funding

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

For funding information see also page 58.

Contact Damian Mole

Email damian.mole@ed.ac.uk

www.ed.ac.uk/pg/849

Tissue Repair

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

Research profile

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

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

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

Understanding tissue repair and the development of novel tissue repair therapies requires a broad range of strategies combining many different disciplines including stem cell, developmental, regenerative, inflammation and fibrosis biology, disease modelling and bioengineering. This innovative PhD programme aims to develop collaborative cross disciplinary projects that will broaden our understanding of regeneration and repair of a number of organ systems (including liver, brain, blood, cardiovascular and reproduction) and identify ways that these processes can be manipulated in the treatment of diseases.

English language requirements

See page 60.

Fees and funding

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

For funding information see also page 58.

Contact Postgraduate Administrator

Email tissuerepair@ed.ac.uk

www.ed.ac.uk/pg/836

Veterinary Advanced Clinical Training Programme

Visiting Research Veterinary Advanced Clinical Training

12/24/36/48 mths FT

Visiting Research Veterinary Advanced Clinical Training 53 wks FT

Research profile

The Royal (Dick) School of Veterinary Studies Clinical Training Programmes provide an opportunity for qualified veterinary surgeons to undertake a period of advanced clinical training in a variety of disciplines under the guidance and supervision of the Royal College of Veterinary Surgeons, European and American veterinary specialists.

Our Senior Clinical Training Programmes (residencies) are designed to train research-literate clinicians with specialist knowledge and expertise in their chosen field thereby giving them the opportunity to pursue career goals in teaching, research, clinical service and/or specialist practice. The majority of our programmes are approved by the relevant UK and European colleges.

We also offer Junior Clinical Training Programmes (internships) in a number of areas within the Hospital for Small Animals. These scholarships are suitable for recently qualified vets who are considering applying for a residency.

English language requirements

See page 60.

Fees and funding

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

For funding information see also page 58.

Contact Veterinary Clinical Scholars Secretary

Email VetClinicalScholars@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 Chemistry, the School of Health in Social Science and the School of Social & Political Science.

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

Funding

A large number of scholarships, loans and other funding schemes are available for your postgraduate studies. It is only possible to show a small selection in print. To see the full range, please visit: www.ed.ac.uk/student-funding/postgraduate.

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

Within the School, 64 per cent of research students received part or full funding for their tuition fees in 2014/15. However, the majority of taught students are self funded although there are some funding packages available for both on-campus and online distance learning students.

Here we list a selection of potential sources of financial support for postgraduate students applying to the College of Medicine & Veterinary Medicine.

Tuition fee discounts

We offer a 10 per cent discount on postgraduate fees for all alumni who have graduated with an undergraduate degree from the University. We also offer a 10 per cent discount for international graduates who spent at least one semester at the University of Edinburgh as a visiting undergraduate: www.ed.ac.uk/student-funding/discounts

Key

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

Loans available for study at the University of Edinburgh

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

- **The Canada Student Loans Program** ●●● The University is eligible to certify Canadian student loan applications: www.ed.ac.uk/student-funding/canadian-loans
- **The Student Awards Agency Scotland** ●● The Student Awards Agency Scotland offers eligible students postgraduate tuition fee loans for eligible programmes: www.ed.ac.uk/student-funding/pg-loan
- **US Student Loans** ●●● The University is eligible to certify loan applications for US loan students. Full details on eligibility and how to apply can be found online: www.ed.ac.uk/student-funding/us-loans

Research council awards

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

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

University of Edinburgh scholarships

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

- **Chile** ●●● National Commission for Scientific and Technological Research (CONICYT): www.conicyt.cl
- **Colombia** ● Administrative Department of Science, Technology and Innovation (Colciencias): www.colciencias.gov.co
- **Ecuador** ●●● Secretaria Nacional de Educacion Superior, Ciencia y Tecnologia (SENESCYT): www.educacionsuperior.gob.ec
- **Iraq** ● Ministry of Higher Education and Scientific Research: www.en.mohesr.gov.iq/
- **Mexico** National Council of Science and Technology of the United Mexican States (CONACYT): ●●● www.conacyt.mx
Banco de Mexico and the Banco de Mexico's FIDERH trust (FIDERH): ●●● www.fiderh.org.mx
Fundacion Mexicana para la Educacion, la Tecnologia y la Ciencia (FUNED): ●● www.funedx.org

Other scholarship opportunities include:

- **British Heart Foundation Centre of Research Excellence Award** ● Four-year PhD studentships offered to students with a background in the physical sciences, computer sciences and mathematics who wish to establish a career in cardiovascular research: www.ed.ac.uk/medicine-vet-medicine/postgraduate

- **British Heart Foundation Programme in the Cellular and Molecular Basis of Cardiovascular Disease** ●

Awarded to outstanding young science graduates wishing to pursue a career in cardiovascular research: www.cvs.ed.ac.uk/training/phd/msc

- **China Scholarships Council/University of Edinburgh Scholarships (China)** ●

A number of scholarships for PhD study to candidates who are citizens and residents of China: www.ed.ac.uk/student-funding/china-council

- **College of Medicine & Veterinary Medicine PhD Studentships** ●

A number of PhD studentships are available for prospective PhD candidates who select research projects from those offered by the College's medical schools and research centres. Projects are advertised on the appropriate research centre website at: www.findaphd.com. See also: www.ed.ac.uk/medicine-vet-medicine/about/medical-schools

- **Colt Foundation Fellowships in Occupational/Environmental Health** ●

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

- **Edinburgh Global Masters Scholarships** ●●

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

- **Edinburgh Global Research Scholarships** ●

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

- **Eric Liddell China Saltire Scholarships (China)** ●●

Ten scholarships are available to Chinese citizens who are permanent residents of mainland China who are accepted on a full-time masters degree programme: www.ed.ac.uk/student-funding/liddell

- **International Masters Scholarships for MSc in Science Communication and Public Engagement** ●

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

*The list is available at: www.oecd.org/dac/stats/daclist.htm

- **Julius Nyerere Masters Scholarship (Tanzania)** ●●

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

- **Mary Orr Paterson Scholarship** ●●●

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

- **Polish School of Medicine Memorial Fund** ●●●

Set up to support early-career, medically qualified scientists, working in Polish medical universities and research institutes, who wish to undertake a period of further study or research at the University of Edinburgh's Medical School with a view to returning to their home country to further develop medicine and healthcare in Poland: www.ed.ac.uk/student-funding/polish-medicine

- **Southern African Scholarship** ●●●

One award for masters study available to students from selected southern African countries: www.ed.ac.uk/student-funding/postgraduate/southern-africa

- **UK/EU Masters Scholarships** ●●

A number of scholarships for UK and EU students who have been accepted on a full-time masters degree programme: www.ed.ac.uk/student-funding/uk-masters

- **University of Edinburgh PhD Scholarships** ●

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

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.

- **Beit Trust** ●●●

Beit Trust Scholarships support postgraduate students from Malawi, Zambia and Zimbabwe, usually to undertake a masters degree: www.beittrust.org.uk

- **Chevening Scholarships** ●●

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

- **Commonwealth Scholarships** ●●●

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

- **Fulbright Scholarships (USA)** ●●●

Scholarships open to US graduate students in any subject wishing to study in the UK: www.iie.org/fulbright

- **Marshall Scholarships (USA)** ●●●

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

- **Silber Bequest** ●●●

Funding is available to help prospective postgraduate students living in the UK who have been granted refugee status: www.ed.ac.uk/student-funding/silber

Funding for online distance learning

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

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

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

How to apply

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/apply

General requirements

Our usual minimum entrance requirement for postgraduate study is a UK undergraduate 2:1 degree, or its international equivalent (www.ed.ac.uk/international/country), in a subject related to your chosen programme. You will also need to meet the University's language requirements (see below).

Entry requirements for individual programmes can vary, so check the details for the specific programme you wish to apply for.

References

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

Contact us

Before you apply for a research degree, we strongly recommend that you contact us to obtain advice about your proposed programme. This will allow us to ensure the availability of facilities and expert supervision.

Further guidance on applying, specific to our College, can be found at: www.ed.ac.uk/medicine-vet-medicine/apply-postgraduate

Online and on-campus taught programmes

Deadlines

The deadline for online distance learning programmes is usually early 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. Check programme details online for details.

Procedure

- Thoroughly explore this prospectus and our website to identify your preferred programme of study.
- Check you meet all entry requirements. Check funding options and whether a separate funding application is needed. Check any deadlines.
- For online programmes, check that you have the right technology in place.
- Visit www.ed.ac.uk/pg/degrees, navigate to your chosen programme, and click on Apply. Follow the instructions within the online application system, including details of documentation you must supply.

Research programmes

Deadlines

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.

Procedure

- Thoroughly explore this prospectus and our website to identify the research centre that best matches your interests. Read online about the centre's research projects and staff interests.
- Contact the member of staff you would like to work with to discuss the possibility of applying for one of their research projects. You should email them a covering letter and CV.
- Check you meet all entry requirements. Check funding options and whether a separate funding application is needed. Check any deadlines.
- Once you have identified a project and a supervisor, visit www.ed.ac.uk/pg/degrees, navigate to your chosen programme, and click on Apply. Follow the instructions within the online application system, including details of documentation you must supply.

Joining us from overseas

International applicants are advised to check the University's website to find

out more about their visa options and our Integrated English for Academic Purposes (IEAP) programme. More information: www.ed.ac.uk/international/ieap

International agents

The University has certified representative agents in the following locations: Brunei, Canada, China, Gulf Region, Hong Kong, India, Japan, Jordan, Korea, Malaysia, Mexico, Nigeria, Norway, Russia, Saudi Arabia, Singapore, South Africa, South Korea, Taiwan, Thailand, Turkey, Zambia and Zimbabwe. International applicants can use an agent to help guide them through the application process if necessary. For more information visit: www.ed.ac.uk/international/country

English language requirements

Students whose first language is not English must show evidence of one of the qualifications listed below.

Biomedical Sciences (Life Sciences), Public Health (including Online Distance Learning), Science Communication & Public Engagement (including Online Distance Learning), Transfusion, Transplantation & Tissue Banking, Veterinary Advanced Clinical Training Programme and all programmes offered by the Postgraduate Dental Institute

- IELTS Academic: total 7.0 (at least 6.5 in each module).
- TOEFL-iBT: total 100 (at least 23 in each module).
- PTE(A): total 67 (at least 61 in each of the Communicative Skills sections; the Enabling Skills sections are not considered).
- CAE and CPE: total 185 (at least 176 in each module).

Global Health Challenges (Online Distance Learning)

- IELTS: total 7.0 (at least 6.0 in each module).
- TOEFL-iBT: total 100 (at least 20 in each module).
- PTE(A): total 67 (at least 56 in each of the Communicative Skills sections; the Enabling Skills sections are not considered).

- CAE and CPE: total 185 (at least 169 in each module).

RCVS Certificate in Advanced Veterinary Practice (Online Distance Learning)

Candidates who are European graduates do not have to take an IELTS test to join the RCVS. For those graduating outside Europe, the RCVS expects a level 7 before candidates can sit the membership exam. We strongly recommend that you are confident in your level of written and spoken English.

All other programmes

- IELTS Academic: total 6.5 (at least 6.0 in each module).
- TOEFL-iBT: total 92 (at least 20 in each module).
- PTE(A): total 61 (at least 56 in each of the Communicative Skills sections; the Enabling Skills sections are not considered).
- CAE and CPE: total 176 (at least 169 in each module).

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/pg/degrees
- Your English language certificate must be no more than two years old at the beginning of your programme.
- We also accept recent degree-level study that was taught and assessed in English in a majority English speaking country (as defined by UK Visas & Immigration).

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

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



Get in touch

Contact us

Tel +44 (0)131 242 6358/6460/6461/
6478/6617

Email mvmpg@ed.ac.uk

[www.ed.ac.uk/medicine-vet-medicine/
postgraduate](http://www.ed.ac.uk/medicine-vet-medicine/postgraduate)

Explore postgraduate life through our
films, ezines and student blogs.
[www.ed.ac.uk/medicine-vet-medicine/
postgraduate/postgraduate-life](http://www.ed.ac.uk/medicine-vet-medicine/
postgraduate/postgraduate-life)

Join in the conversation on Twitter.

twitter.com/EdinburghMedVet

Visit us

Our Postgraduate Open Day is your
opportunity to come and meet current
staff and students. Our next campus-based
Open Day takes place on Wednesday 18
November 2015. For more information, visit:
www.ed.ac.uk/postgraduate-open-day

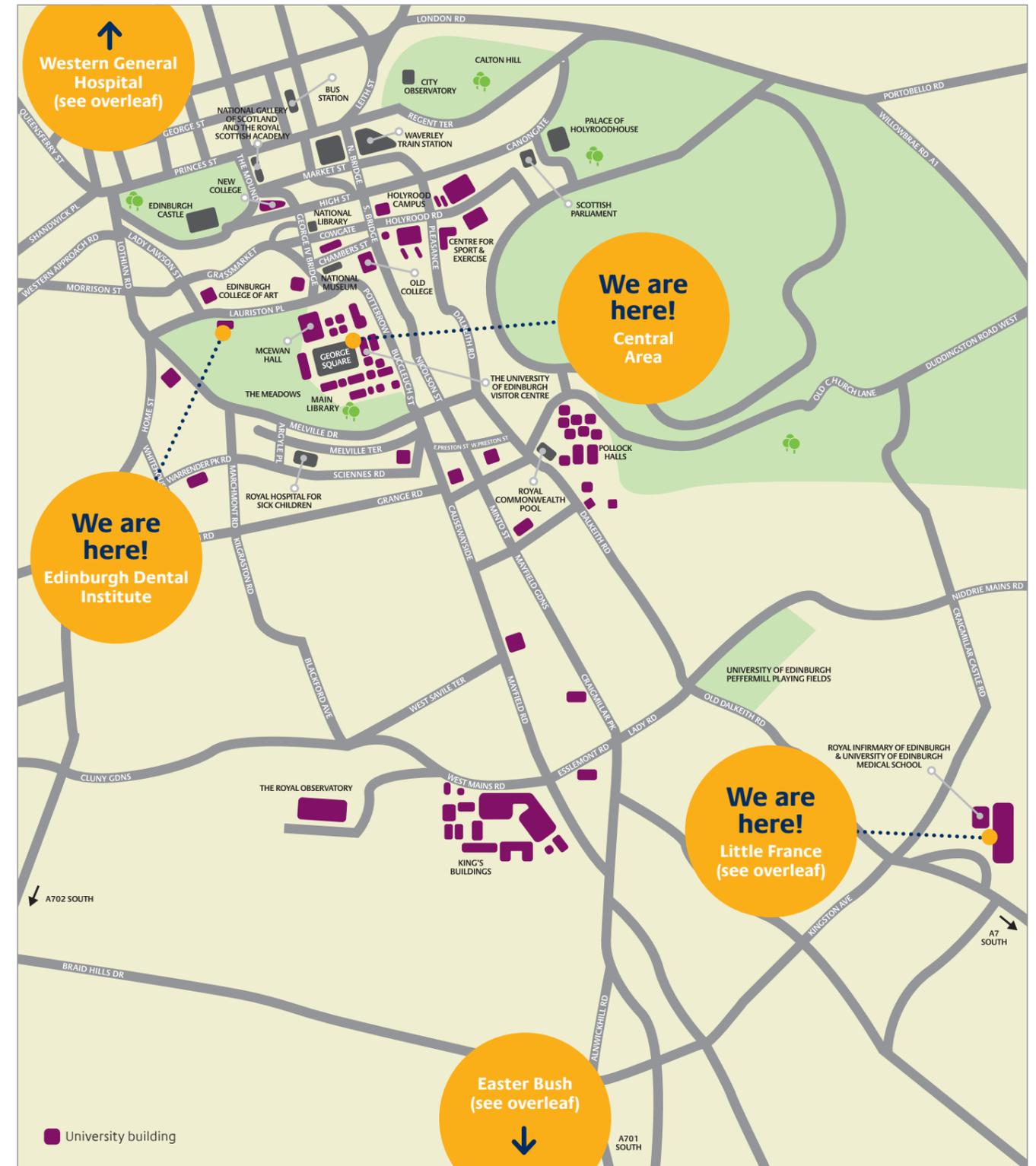
The University also runs online information
sessions for prospective postgraduate
students throughout the year. For more
information, visit: [www.ed.ac.uk/
postgraduate/online-events](http://www.ed.ac.uk/
postgraduate/online-events)



Campus maps

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

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

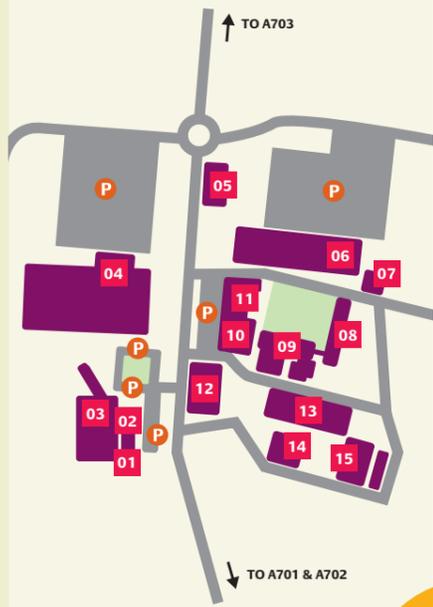


Campus maps (continued)

Easter Bush

- 01 Riddell-Swan Building
- 02 Clinical Research Imaging Centre
- 03 Hospital for Small Animals
- 04 The Royal (Dick) School of Veterinary Studies
- 05 Campus Facility Management Centre
- 06 Roslin Institute Building
- 07 Equine Treadmill
- 08 Sir Alexander Robertson Building
- 09 EBVC Laboratory Arm
- 10 Easter Bush Veterinary Centre
- 11 The View
- 12 Stable Block
- 13 Equine Hospital
- 14 Farm Animal Teaching Unit
- 15 Scintigraphy and Exotics (Large Animal Teaching Unit)

P Parking



Little France

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

P Parking



We are here!

Western General

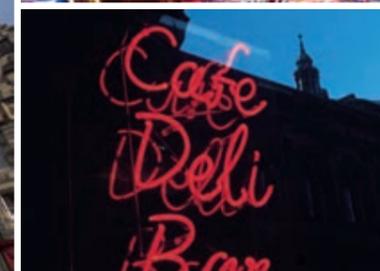
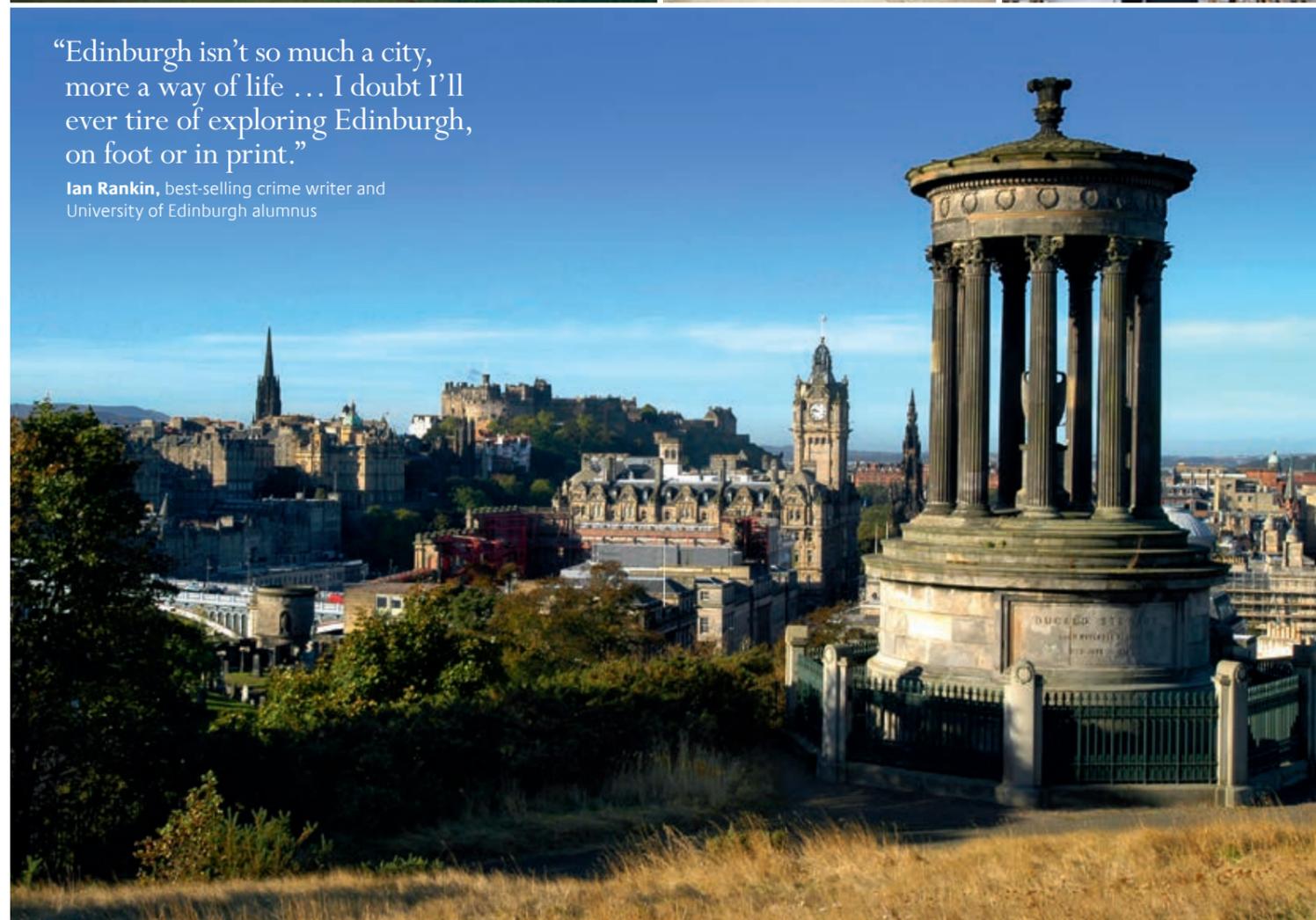
- 01 Biomedical Research Facility
- 02 CJD Surveillance Unit
- 03 Wellcome Trust Clinical Research Facility
- 04 Outpatients Department; Medical Education Centre
- 05 IGMM Complex
- 06 Breakthrough Research Unit
- 07 Clock Tower Building
- 08 Library
- 09 Old Metabolic Clinic/Diabetic Clinic
- 10 Bramwell Dott Building
- 11 Department of Clinical Neurosis: wards
- 12 Department of Clinical Neurosis: research; MRI unit
- 13 Department of Clinical Neurosis

P Parking



“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 crime writer and University of Edinburgh alumnus





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Printed on Amadeus 50% recycled silk: a recycled paper containing 50% recycled waste and 50% virgin fibre. Manufactured at a mill certified with ISO 14001 environmental management standard. The pulp used in this product is bleached using an Elemental Chlorine Free process.

We have made every effort to ensure the accuracy of the information in this prospectus before going to print. However please check online for the most up-to-date information: www.ed.ac.uk

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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