



THE UNIVERSITY
of EDINBURGH

Veterinary & Agricultural Sciences

Postgraduate Opportunities 2019



Influencing the world since 1583

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

Ian Rankin
Best-selling author and alumnus

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14 Nov 2018
Postgraduate Open Day

www.ed.ac.uk/postgraduate-open-day

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

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

International collaboration

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

Linking research and commerce

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

Enhancing your career

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

TOP 50

We're consistently ranked one of the top 50 universities in the world. We're 18th in the 2019 QS World University Rankings.

4TH

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

83%

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

TOP 100

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

£373m

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

24

We are associated with 24 Nobel Prize winners.

13TH

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

 twitter.com/appliedinburgh

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* Times Higher Education, Overall Ranking of Institutions

† Times Higher Education, Global Employability University Ranking 2017

‡ Times Higher Education: The World's Most International Universities 2017

Online learning masters programmes

The University of Edinburgh is one of the largest providers of online postgraduate programmes in the Russell Group. Our flexible, online learning programmes are making a difference to a new generation of postgraduate students around the world.

The Royal (Dick) School of Veterinary Studies (R(D)SVS) has been offering innovative postgraduate programmes online to veterinary and related professionals since 2005. We offer a range of online taught master of science (MSc) and master of veterinary science (MVetSci) programmes for candidates with a first degree in veterinary medicine, or in a relevant biological or animal science subject. Many of our programmes are also available as a postgraduate diploma (PgDip) or certificate (PgCert), or as postgraduate professional development (PgProfDev - see page 15). There are 12 online programmes to choose from and with more than 550 online students in our School, we treat the delivery of teaching online as seriously as we do on campus. Every programme has an experienced team of programme director, coordinator and administrator, and each student is provided with a personal tutor, so you will be fully supported in all aspects of your student experience.

The online, part-time format is particularly suited to students already in full- or part-time employment or with other professional or personal commitments, and allows a flexible learning environment that can be adapted to suit individual

needs. You can choose to study at a time and in a place that suits you, saving relocation costs.

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

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

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

More information:
www.ed.ac.uk/vet/postgraduate/online



www.ed.ac.uk/pg/910

Advanced Clinical Practice



MVetSci up to 6 yrs PT. PgDip up to 4 yrs PT.
PgCert up to 2 yrs PT

Programme description

Veterinary medicine is a rapidly evolving discipline, comprising a wide range of specialist areas. Research in veterinary medicine is directly relevant to the improvement of the health and welfare of domestic animal species and the protection of public health.

Veterinary practitioners are under pressure to maintain high standards of practice while also keeping abreast of the latest developments. In response to the increasing requirement for support in developing advanced clinical skills, this online learning programme is aimed primarily, but not exclusively, at veterinarians in practice.

The modular, portfolio approach offers you the greatest flexibility to meet your needs as a modern practitioner. Our goal is to provide you with the skills and knowledge required to be a highly effective practitioner and act as a leader or mentor within the veterinary community.

Programme structure

The programme is delivered part-time by online learning. Each year will consist of three 11-week terms, structured in two five-week blocks with a week in between for independent study and reflection.

Modular in structure, the programme offers a flexible, student-centred approach to the choice of courses studied. You can choose to take a particular species track in your option courses, for example courses focused on companion animals, exotic zoo and wildlife, equine or production animals. Equally you can choose to take a mixed practice approach and select courses that meet your individual professional needs.

Courses are completed entirely online, incorporating a variety of teaching methods including online lectures, tutorials, specialist external lectures, scientific group discussions, case studies, problem-based learning scenarios, literature-based research, computer-assisted learning and quizzes. You will have the option to select a final year project or fully-taught route to achieve the MVetSci.

Career opportunities

Opportunities for graduates will include enhanced promotion within the veterinary clinical practice sector and roles within veterinary-based industries, particularly feed and pharmaceutical manufacturers. The programme also offers an entry point for academic clinical positions coming from the private practice sector. Graduates may choose to apply for Advanced Practitioner status with the Royal College of Veterinary Surgeons (RCVS UK).

Entry requirements

This programme is intended for students with a veterinary degree or its international equivalent (www.ed.ac.uk/international/graduate-entry). If you hold a Royal College of Veterinary Surgeons (RCVS) Postgraduate Certificate in Advanced Veterinary Practice (CertAVP) you can directly enter the diploma year of the MVetSci programme.

English language requirements

See page 34.

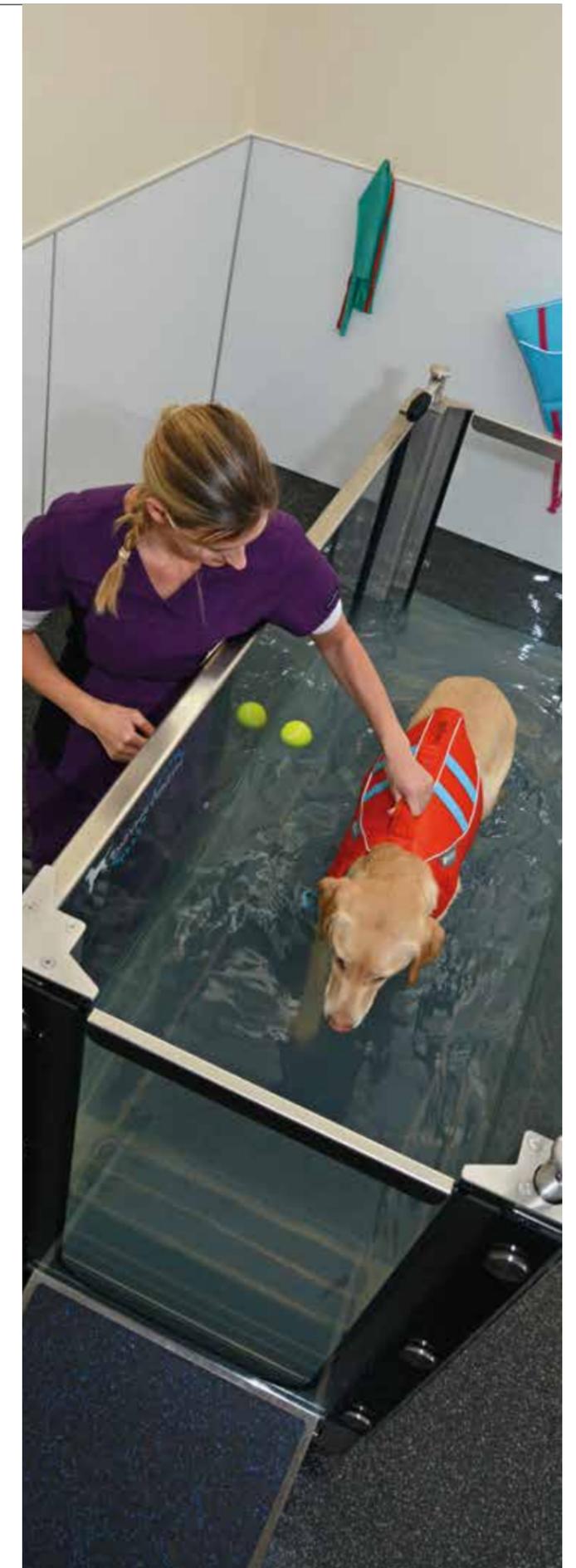
Fees and funding

For fees see page 34 and for funding information see page 36.

Programme Director Brendan Corcoran

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www.ed.ac.uk/pg/954

Applied Conservation Genetics with Wildlife Forensics



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

Programme description

Within conservation science, there is increasing recognition of the value of genetic data to support management decisions. However, scientists and managers with the skills and knowledge to apply population genetic theory to conservation practice are lacking. Within this arena, wildlife forensics is an exciting new field that is attracting increasing global attention in the fight against the illegal wildlife trade.

This programme offers you a blend of theoretical and practical education in the application of genetic data to wildlife management and conservation law enforcement. It will cover all essential aspects, from population genetic theory, through data analysis, to the considerations involved in the interpretation and transfer of scientific findings to management, policy and criminal investigation.

You will be able to specialise in either applied conservation genetics or wildlife forensics, with both options providing valuable transferable scientific skills relating to knowledge acquisition and application, problem-solving, science communication and decision making. The overall aim of the programme is to equip current and future wildlife professionals with the knowledge, skills and global networks to address modern challenges in conservation management and law enforcement.

This programme has been designed in collaboration with Science and Advice for Scottish Agriculture (SASA), a government facility which houses the UK wildlife DNA forensics laboratory. You will have a unique opportunity to learn from SASA's internationally recognised specialists in the application of genetic analysis to conservation management and wildlife forensics.

Programme structure

You will complete six compulsory and two option courses, as well as a dissertation. Your programme staff all actively work in applied conservation science alongside their academic posts and include members of the IUCN SSC Conservation Genetics Specialist Group, the Society for Wildlife Forensic Science and the UN, US and UK wildlife forensic advisory groups.

Career opportunities

You will graduate with the knowledge, skills and global networks necessary to use DNA analysis as a tool in wildlife conservation and will be able to demonstrate both scientific acumen and an ability to translate research into conservation management practice.

Entry requirements

A UK 2:1 honours degree or its international equivalent (www.ed.ac.uk/international/graduate-entry) in biological, biochemical, or forensic sciences or veterinary medicine.

English language requirements

See page 34.

Fees and funding

For fees see page 34 and for funding information see page 36.

Programme Director Rob Ogden
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www.ed.ac.uk/pg/963

Applied Poultry Science



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

Programme description

This programme offers a unique research-led opportunity to study the different aspects of applied poultry science and aims to equip current and future professionals with skills, knowledge and understanding to address local and global challenges in sustainable poultry production. It is designed to suit those in continuing employment or with other commitments.

Participants typically come from a wide range of backgrounds, including nutritionists, breeders, vets and other poultry sector workers, all of whom wish to develop their career and businesses.

It is offered as a fully flexible mix of technical, scientific, nutritional, and environmental and management-skills development modules so you can fit your studies in and around your work and other commitments. Courses are delivered largely by poultry specialists from Scotland's Rural College (SRUC) and St David's Poultry Team (veterinary surgeons).

Programme structure

You will study proposed compulsory courses such as *Poultry Housing & Environment*; *Poultry Anatomy & Health*; *Poultry Feed, Nutrition & Digestion*; *Poultry Behaviour & Welfare in Commercial Systems*; *Poultry Embryology & Incubation*; and *Poultry Breeding & Genetics*.

You will also choose from a range of proposed option courses, such as *Research Methods & Data Analysis*; *Poultry Business Management*; and *Leadership Skills*. You will then complete your final dissertation.

Career opportunities

Our graduates work in many different poultry related organisations across the globe, such as research establishments, education, industry, government organisations, and welfare organisations. Some set up their own poultry businesses. Often they are already employed in international organisations in agricultural sciences, biological science, or veterinary medicine, or as professionals from agriculture and rural industries, government officials, or research technicians in poultry science. Completion of the programme has enhanced their career opportunities.

Entry requirements

A UK 2:1 honours degree or its international equivalent (www.ed.ac.uk/international/graduate-entry) in agriculture, veterinary science or a biological science. We may also consider your application if you have relevant work experience in the poultry industry for three or more years. Please contact us to check before you apply. You may be admitted to certificate level only in the first instance.

English language requirements

See page 34.

Fees and funding

For fees see page 34 and for funding information see page 36.

Programme Director Vicky Sandilands
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Key FT: Full time. PT: Part time.

www.ed.ac.uk/pg/911

Clinical Animal Behaviour



MSc up to 6 yrs PT. PgDip up to 4 yrs PT.
PgCert up to 2 yrs PT

Programme description

This programme provides flexible postgraduate study, designed to specifically address the demand for online clinical animal behaviour teaching within a supported learning environment. The programme utilises an evidence-based approach to explore the potential motivations, management and treatment options for abnormal and/or problem behaviours commonly expressed by companion animal species living within a domestic environment. The subject involves a multidisciplinary approach, drawing on knowledge and techniques from the fields of psychology, ethology, neurobiology, pharmacology and veterinary science. This programme contains teaching and learning that is aimed at your academic preparation for a professional career working with companion animals in the management of animal behaviour in a variety of settings, including clinical animal behaviour counselling.

Programme structure

This programme is modular in structure, offering a flexible student-centred approach to the choice of courses studied. You may undertake this programme by intermittent study (flexible progression route).

CERTIFICATE COURSES PREVIOUSLY OFFERED INCLUDE:

Principles of Applied Animal Behaviour and *Clinical Animal Behaviour* along with either *Anthrozoology* (recommended for those continuing to Diploma/MSc) or one of two other option courses.

DIPLOMA COURSES PREVIOUSLY OFFERED INCLUDE:

Clinical Animal Behaviour in Practice and two option courses from a choice of four.

MASTERS

The dissertation element of the programme will allow further development of scientific skills and may take the form of a short research project, case studies relating to relevant professional experience or an extended literature review.

Career opportunities

This programme is designed to equip you with the academic skills necessary to succeed in careers that require an evidence-based approach to clinical animal behaviour and training. Veterinarians and veterinary nurses will develop their ability and confidence to support and advise clients in the area of companion animal behaviour. Graduates can also use the qualification to enhance their career prospects in academia, research, non-governmental organisations and animal welfare charities.

Entry requirements

A UK 2:1 honours degree, or its international equivalent (www.ed.ac.uk/international/graduate-entry), with a biological background, for example a degree in veterinary medicine/science, veterinary nursing, biological sciences, zoology, psychology or animal science. We may consider applicants with degrees in other disciplines if you have a minimum of five years' demonstrable experience working with companion animals in a relevant capacity. Please contact us to check before you apply. You may be admitted to professional development or certificate level in the first instance.

English language requirements

See page 34.

Fees and funding

For fees see page 34 and for funding information see page 36.

Programme Director Amy Miele

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www.ed.ac.uk/pg/786

Conservation Medicine



MVetSci up to 6 yrs PT. PgDip up to 4 yrs PT.
PgCert up to 2 yrs PT. PgProfDev up to 2 yrs PT

Programme description

This established field studies the complex relationships and interactions between animal health, human health and ecosystem health. It addresses the need for a holistic and interdisciplinary approach to the conservation of biodiversity, particularly the importance of health in many conservation issues. With its foundation in the principles of conservation biology, conservation medicine incorporates contributions from the health sciences, ecology and the social sciences. It may be regarded as the application of one health to the conservation of biodiversity. Our masters provides veterinarians with the skills and knowledge to be effective practitioners of conservation medicine. The flexible, part-time format allows you to achieve a world-class award while maintaining busy professional and personal commitments. Our teaching blends theory and practice to provide the foundation for a career in conservation. You will also have a unique opportunity to learn from internationally-recognised specialists from the University and from other international organisations.

Programme structure

The flexible nature of this programme allows you up to six years to complete it. Each year consists of three 11-week terms, structured as two blocks of five weeks' study, with a week between for independent study and reflection. It is possible to complete the masters within two years and there are options for studying for a certificate or a diploma.

CERTIFICATE COURSES PREVIOUSLY OFFERED INCLUDE:

Introduction to Conservation Medicine; Ecosystem Health and Species Conservation; Applied Epidemiology and Surveillance for Conservation Medicine.

DIPLOMA COURSES PREVIOUSLY OFFERED INCLUDE:

Veterinary Techniques and Interventions for Conservation Medicine and Wildlife Disease Management. You will also study four option courses from a choice of 15.

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.

Residential 'hands-on' practical course

As this is an inherently practical field, we offer the optional residential course *Interventions in Wild Animal Health*, which is run in collaboration with the Zoological Society of London and The Wildlife Institute of India. This offers you an opportunity to learn key practical skills that are best learnt in the field, such as techniques for wildlife population monitoring, wildlife disease investigation and best-practice field anaesthesia.

Entry requirements

A UK degree or its international equivalent (www.ed.ac.uk/international/graduate-entry) in veterinary medicine.

English language requirements

See page 34.

Fees and funding

For fees see page 34 and for funding information see page 36.

Programme Director Neil Anderson

Email conservation.medicine@ed.ac.uk



www.ed.ac.uk/pg/239

Equine Science



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

Programme description

This programme 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 to be hosted 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 enhancing your equine career or for future independent research, such as a PhD.

Programme structure

The first part of the programme consists of taught 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/DIPLOMA COURSES PREVIOUSLY OFFERED INCLUDE:

Research Methods and Data Analysis (Equine Science); Equine Digestion and Nutrition; Equine Behaviour and Welfare; Equine Orthopaedics; Equine Reproduction; Equitation Science; Equine Exercise Physiology.

FINAL YEAR

Your dissertation of 9,000 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; commercial organisations, such as feed companies, stud farms, pharmaceuticals and consultancy firms; government bodies, such as ADAS and DEFRA; and welfare organisations such as the RSPCA, WSPA and WHW.

Entry requirements

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

English language requirements

See page 34.

Fees and funding

For fees see page 34 and for funding information see page 36.

Programme Deputy Director Bryony Lancaster

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www.ed.ac.uk/pg/955

Food Safety



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

Programme description

Foodborne diseases are a growing public health concern worldwide. The contamination of food with microorganisms or chemicals may occur at any stage in the process from food production to consumption (i.e. from farm to fork) and as a result of environmental contamination, including pollution of water, soil or air. The global burden of foodborne diseases worldwide is very high, affecting every year around 600 million people with 420,000 deaths. Therefore, the World Health Organisation (WHO) highlights the importance of producing safe food that saves human lives, saves resources and has a positive impact on the economy of every country.

This programme is designed to provide a true holistic food safety approach to the food chain that incorporates the pre- and post-harvest stages of food production, crop safety, animal welfare and the economics of the supply chain.

Programme structure

Courses will be developed and delivered by specialists in the field from the Royal (Dick) School of Veterinary Studies, the Roslin Institute and Scotland's Rural College (SRUC).

CERTIFICATE COURSES PROPOSED INCLUDE:

Food Supply Chain and Food Safety; Data Analysis for Food Safety; Food Safety Hazards and Food Safety Management Systems; Food Production Systems.

DIPLOMA COURSES PROPOSED INCLUDE:

You will study two compulsory courses: *Food Processing and Waste Management; Research Methods and Statistics*. You will also choose two or three options from a selection including: *Zoonotic Disease; Emerging Infectious Diseases; Animal Welfare; Food Production and Food Security; Food Traceability and Food Fraud*.

MASTERS

The third year consists of a dissertation.

Career opportunities

This programme aims to equip you with the fundamental knowledge and expertise to influence and promote food safety at different levels of your organisation. It will give you solid grounds from which to enhance your career or secure a position or pursue a different career in a food safety-related organisation, for either government or industry. It is also suitable preparation for further research, such as a PhD in Food Safety.

Entry requirements

A UK 2:1 honours degree, or its international equivalent (www.ed.ac.uk/international/graduate-entry), in agricultural or biological science, or veterinary or human medicine. We may also consider your application if your background is not specifically related to these disciplines and you have relevant work experience in a related area of food safety or three years or more involvement in food-related matters. Please contact us to check before you apply. You may be admitted to certificate level only in the first instance.

English language requirements

See page 34.

Fees and funding

For fees see page 34 and for funding information see page 36.

Programme Manager Alessandro Seguino

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Key FT: Full time. PT: Part time.

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www.ed.ac.uk/pg/959

Global Food Security & Nutrition



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

Programme description

Food security is concerned with the availability, access, and utilisation of safe, nutritious and sustainable food to all, especially vulnerable groups within society. The challenges related to food are not only the existence of approximately 795 million undernourished people in the world (Food and Agricultural Organization (FAO)) but also the increasing presence of diet-related non-communicable diseases (e.g. diabetes and heart disease), and the contribution of agriculture to greenhouse gas emissions and land use change. Understanding the interconnection of food, health and the environment, as well as their trade-offs, is vital in order to formulate policies that enable us to achieve food security in a sustainable manner.

This programme recognises that food security concerns not only food policy and food production issues but also aspects such as land tenure, immigration, demographics, diet and nutrition, technology, natural resources (e.g. pressures on water and soil) and climate change. We offer expertise and research on these topics, and our programme team has good working relationships with international organisations that are at the cutting edge of addressing food security issues, such as FAO, the World Food Programme and the International Federation of Red Cross/Crescent.

Programme structure

You will complete six compulsory courses, two options from areas such as food policy, food safety, global health, conservation, and development, and a dissertation. Your programme staff all actively work in food security and nutrition alongside their academic posts.

Career opportunities

This programme is designed to equip you with the skills to go on to careers in government and international non-governmental organisations working in a broad range of areas relating to food security. There are increasing research opportunities available in the food security arena, in the UK, EU and internationally. There are also some positions in the private sector that will be attractive to graduates, such as retail, food supply management, or even commodity trading.

Entry requirements

A UK 2:1 honours degree, or its international equivalent (www.ed.ac.uk/international/graduate-entry), in biological or biochemical sciences. We may also consider your application if your background is not specifically related to these disciplines and you have relevant work experience in a related area. Please contact us to check before you apply. You may be admitted to certificate level only in the first instance.

English language requirements

See page 34.

Fees and funding

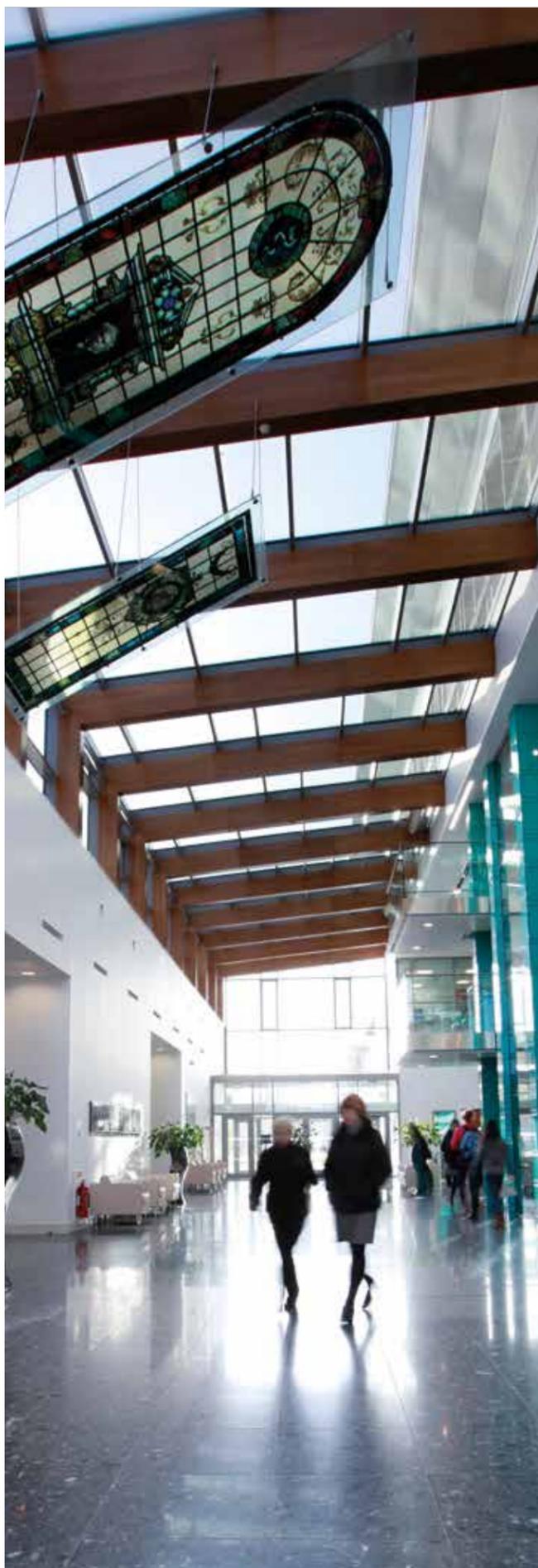
For fees see page 34 and for funding information see page 36.

Programme Manager Dr Fiona Borthwick

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www.ed.ac.uk/pg/788

International Animal Welfare, Ethics & Law



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

Programme description

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 R(D)SVS) 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.

CERTIFICATE COURSES PREVIOUSLY OFFERED INCLUDE:

International Animal Welfare Science and Animal Ethics, Policy and Law plus an option course.

DIPLOMA COURSES PREVIOUSLY OFFERED INCLUDE:

You can choose up to 60 credits of option courses, which include: *Production Animal Welfare; Cat and Dog Welfare; Captive and Free-ranging Wild Animal Welfare; Animals in Research, Testing and Education; Clinical Animal Behaviour; Equine Behaviour and Welfare; Equitation Science; Anthrozoology.*

MASTERS

You complete a dissertation of 10,000-12,000 words, which can be a research project or extended systematic review of the literature in a topic of animal welfare science, ethics or law.

Career opportunities

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

Entry requirements

A UK 2:1 honours degree, or its international equivalent (www.ed.ac.uk/international/graduate-entry), in animal science, biology, psychology, zoology or veterinary science. We may also consider your application if you have a degree in social science, ethics or law, or if you are an experienced veterinary nurse; please contact us to check before you apply. If you have relevant work experience and an undergraduate degree in an area other than science, law, ethics or social science we may also consider your application. Please contact us to check before you apply. You may be admitted to the certificate level or Postgraduate Professional Development (PgProfDev) only in the first instance.

English language requirements

See page 34.

Fees and funding

For fees see page 34 and for funding information see page 36.

Programme Director Fritha Langford
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Key FT: Full time. PT: Part time.

www.ed.ac.uk/pg/814

One Health



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

Programme description

One health is at the interface between human, animal and ecosystem health. It is a fast-evolving area, well suited to preparing professionals to tackle the current complex health challenges. Its emergence was driven by the threat of global disease pandemics such as avian influenza and SARS and recognition that a holistic, interdisciplinary approach including natural and social sciences was required. One health's scope now includes zoonotic disease, disease emergence, epidemiology, surveillance, antimicrobial resistance and ecosystem health. Close attention is paid to social, political and ecological drivers of change and approaches to interdisciplinary collaboration and sustainable development. This flexible programme provides you with the key interdisciplinary training and skills required for a successful career. Part of the Global Health Academy, it utilises the University's strengths across multiple disciplines, sharing courses with other programmes to promote interaction across disciplines within a truly global community of students.

Programme structure

You may study a Postgraduate Certificate, Postgraduate Diploma or MSc.

CERTIFICATE COURSES PREVIOUSLY OFFERED INCLUDE:

Introduction to One Health; Ecosystem Health; One Health Policy; Applied Epidemiology and Surveillance.

DIPLOMA COURSES PREVIOUSLY OFFERED INCLUDE:

Socioeconomic Principles for One Health; Zoonotic Disease; Zoonotic Diseases in a Global Setting; Emerging Infectious Diseases; Communication and Public Engagement of Conservation; Introduction to GIS and Spatial Data Analysis; Wildlife Disease Management; Ex-Situ Wildlife Management; Environmental Law; Ecosystem Resilience and Extreme Events; Water and Sanitation; An Introduction to Transboundary Diseases and their Impact on Trade and Wildlife Populations; Managing Ecosystems for Human Health and Wellbeing; Captive and Free-ranging Wild Animal Welfare; Surveillance and Control of Transboundary Diseases Affecting International Trade; Pastoralism and Herd Health; Animal Disease Survey Design and Analysis.

MASTERS

The third year consists of a dissertation in which you choose to undertake either a short research project or a literature review.

Career opportunities

A qualification from our programme will enhance your career prospects in academia, research, government departments, non-governmental organisations, international development and the private sector. One Health is rapidly gaining global recognition and our graduates have experienced improved career opportunities as a result of studying on the programme.

Entry requirements

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

English language requirements

See page 34.

Fees and funding

For fees see page 34 and for funding information see page 36.

Programme Director Neil Anderson
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www.ed.ac.uk/pg/888

RCVS Certificate in Advanced Veterinary Practice



PgProfDev 1-10 yrs PT

Programme description

This certificate offers a flexible, modular approach to achieving veterinary postgraduate qualifications. Credits are awarded by RCVS and not the University, and as such the programme is not eligible for any University award. You will design your own programme, choosing 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 *Foundations of Advanced Veterinary Practice* – 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 advanced professional veterinary work. You may elect to progress to a European Diploma upon completion of the certificate.

Entry requirements

You must:

- be a member of RCVS, or hold a registrable degree;
- have at least one year of postgraduate experience working as a veterinary surgeon; and
- be enrolled with RCVS if intending to take the Certificate in Advanced Veterinary Practice (enrolment valid for 10 years).

You can check the list of recognised international qualifications on the RCVS website: www.rcvs.org.uk

If you graduated after 2007 we recommend that you complete the Professional Development Phase (PDP) before enrolling for any modules.

English language requirements

See page 34.

Fees and funding

For fees see page 34 and for funding information see page 36.

Programme Director Sharon Boyd
Tel +44 (0)131 650 6149
Email cert.avp@ed.ac.uk

See also...

You may also be interested in online programmes offered by other schools within the University, particularly our global health programmes in Edinburgh Medical School, or *Next Generation Drug Discovery*, which is offered by the School of Biological Sciences.

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

Key FT: Full time. PT: Part time.

www.ed.ac.uk/pg/914

Veterinary Anaesthesia & Analgesia



MSc up to 6 yrs PT. PgDip up to 4 yrs PT.
PgCert up to 2 yrs PT

Programme description

Anaesthesia and analgesia have vital importance within the modern veterinary practice in improving animal welfare and permitting medical and surgical advances. Advances in anaesthesia knowledge, drugs, techniques and equipment over the last 20 years have been considerable. Anaesthesia has always carried risks, and developments in anaesthetic equipment and new drugs and new techniques have the aim of reducing morbidity and mortality in our animals. This programme offers an opportunity to study these advances and gain new knowledge and a new way of thinking about anaesthesia.

Programme structure

You will complete two years of taught courses before the submission of work for your masters.

CERTIFICATE COURSES PREVIOUSLY OFFERED INCLUDE:

Basic Sciences in Anaesthesia and Analgesia; Anaesthetic Equipment; Patient Assessment, Critical Incidents and Cardiopulmonary Resuscitation. You will also choose two options from four species-related courses, which include dogs and cats; equidae; ruminants, camelids and pigs; or small mammals.

DIPLOMA COURSES PREVIOUSLY OFFERED INCLUDE:

Choose 60 credits of options: *Emergency Case Management; Chronic Pain and Advanced Analgesic Principles; Advanced Cardiovascular Procedures and Monitoring; Lung Ventilation and Mechanical Ventilators; Reptiles and Birds; Ethics in Veterinary Anaesthesia and Euthanasia.* In addition, you may select additional species courses from Year 1.

MASTERS

You will demonstrate scientific skills and theory in a dissertation (approx. 12,000 words). This may be as a research study, analysis of techniques used in previous clinical work or an extended literature review. A casebook or portfolio submission may also be permitted.

Career opportunities

This programme is aimed at vets in practice wishing to extend their knowledge of anaesthesia and perioperative care. This may be desirable for practices wishing to show a wide range of staff expertise and patient support during surgery and other interventions. Graduate veterinary nurses who have a significant role in anaesthesia or science graduates who use anaesthesia in their work will also find the programme useful, as may veterinary surgeons seeking employment in research environments (e.g. named veterinary surgeon) due to the key importance of anaesthesia and the emphasis on this from Home Office regulation of research work in the UK.

Entry requirements

A UK 2:1 honours degree, or its international equivalent (www.ed.ac.uk/international/graduate-entry), in veterinary medicine or veterinary nursing. We will also consider your application if you have a degree in a related science with appropriate practical experience. Please check online for other alternatives we may also consider.

English language requirements

See page 34.

Fees and funding

For fees see page 34 and for funding information see page 36.

Programme contact Natalie Honeyman
Tel +44 (0)131 650 6272
Email msc-vaa@ed.ac.uk

www.ed.ac.uk/pg/912

Veterinary Epidemiology



MSc up to 6 yrs PT. PgDip up to 4 yrs PT.
PgCert up to 2 yrs PT

Programme description

Veterinary epidemiology is a key component in a number of the global grand challenges relating to disease control, food security and climate change. Consequently, there is a need to improve our ability to understand, predict and respond to patterns and dynamics of disease and to control outbreaks. Our partnership with Scotland's Rural College (SRUC) creates the greatest concentration of research power in veterinary and agricultural sciences in the UK. This MSc draws on that wealth of experience and research activity to provide scientific knowledge of fundamental biological processes (including behaviour, physiology, immunology, and ecology) and environmental and farming management practices (such as husbandry, nutrition, and livestock trade) driving disease transmission, persistence, prevalence and spread in livestock production systems. This enables in-depth understanding of complex environmental patterns of disease, facilitating disease risk prediction and control. This multidisciplinary systems approach provides you with the skills to contribute significantly to tackling food security, climate change and disease control as an animal health professional.

By the end of the programme you will not only have a detailed understanding of the biology driving disease persistence and prevalence, but also how the biology scales up from individuals to populations. You will understand how this interacts with agricultural management practices to determine the efficacy of disease control strategies and livestock production (such as interdisciplinary systems thinking and communication). Furthermore, the systems approach offers a way to frame disease challenges and problem-solve disease risk at a range of scales (from veterinarians tackling specific outbreaks to the consequences of climate change on disease risk). The programme offers training in methodological skills for the design, implementation, analysis, interpretation and communication of epidemiological studies, disease surveillance and disease control in animal populations and wider host communities. Courses are delivered by active researchers presenting their own research, which is placed into context with global grand challenges. You will be exposed to and taught skills appropriate for developing a research career.

Programme structure

The programme is delivered part-time by online learning. You may also take the programme by intermittent study (flexible progression route).

Career opportunities

The programme provides general training (suitable for people in education, government, policy-making, agricultural and veterinary organisations) and topic-specific training (suitable for veterinarians for continuing professional development) to enable promotion, further employment opportunities or personal fulfilment. It is also suitable if you are considering a career in research, as a precursor to a PhD.

Entry requirements

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

English language requirements

See page 34.

Fees and funding

For fees see page 34 and for funding information see page 36.

Programme contact Angela Harding or Spiridoula Athanasiadou
Tel +44 (0)131 650 7363
Email vetepi@ed.ac.uk



Postgraduate professional development

Short course option

Postgraduate professional development (PgProfDev or PPD) is a way of learning 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 or postgraduate diploma or certificate.

Individual courses on all our online programmes may be taken as credit-bearing PPD. You may take a maximum of 50 credits worth of courses through our PPD scheme. These credits will be recognised in their own right at postgraduate level, or may be put towards gaining a higher award, such as a postgraduate certificate or diploma or an MSc. If you choose intermittent or PPD study then your tuition fees will be charged on a course-by-course basis.

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

On-campus taught masters and masters by research programmes

Our on-campus programmes are designed to develop knowledge or techniques in specialised subjects that are studied more generally at undergraduate level. They take 12 months to complete and are internationally recognised as providing a world-class research-led teaching and training experience.

Our masters programmes are taught through lectures, tutorials and seminars, as well as practical and laboratory work, and conclude with a dissertation element.

Programme tutors are all active international experts in their field, and many guest lecturers travel to the Royal (Dick) School of Veterinary Studies every year to teach and interact with our students.

You will be part of a thriving postgraduate community on the Easter Bush Campus and can participate in a wide variety of academic and non-academic extra-curricular activities to enhance your student experience.

Every programme has an experienced team of programme director, coordinator and administrator, and each student has a personal tutor, so you will be fully supported in all aspects of your student experience.

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

Oluyinka Abejide, MSc Animal Biosciences

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, next to the R(D)SVS. 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 PREVIOUSLY OFFERED INCLUDE:

Foundations of Animal Science; Laboratory Tools for the Animal Sciences; One Health and Comparative Animal Models; Avian Development and Biology; 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. Recent graduates are now working in scientific, laboratory and research roles for a range of commercial labs and pharmaceuticals companies.

Entry requirements

A UK 2:1 honours degree, or its international equivalent (www.ed.ac.uk/international/graduate-entry), in biological, veterinary or medical sciences. You will preferably have a working knowledge of molecular and cell biology and some laboratory experience.

English language requirements

See page 34.

Fees and funding

For fees see page 34 and for funding information see page 36.

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, Dogs Trust and Humane Slaughter Association.

Programme structure

The programme consists of a taught element made up of five courses followed by a dissertation project. 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 PREVIOUSLY OFFERED INCLUDE:

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. This can be on a topic of your choice or alternatively there are a number of pre-prepared project ideas that you can choose from.

Career opportunities

Graduates move on to a variety of jobs, such as research technicians, scientific advisers and lecturers. Many will also continue their study and enrol in a PhD. Other than research, recent graduates are now working as animal carers, trainers, agriculture officers and veterinary inspectors and in welfare and behaviour roles for organisations such as the SPCA, Humane Society of the United States, Florida Conservation Corps, Compassion in World Farming, The Brooke, and World Animal Protection.

Entry requirements

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

English language requirements

See page 34.

Fees and funding

For fees see page 34 and for funding information see page 36.

Programme Director Tamsin Coombs
Email animal.behaviour@ed.ac.uk



www.ed.ac.uk/pg/949

Infectious Diseases & One Health

MSc 2 yrs FT

Programme description

Infectious diseases represent a major threat to public health. Fighting emerging, or re-emerging, infections requires that both animal and human health be treated as 'one health'.

This programme will provide you with education in one health concepts, host pathogen interactions, immunology, zoonotic and emerging infections, translational animal models and management of infectious diseases. It will educate you in all aspects of infectious disease biology, assessment, and research. You will study in Edinburgh and at partner universities in Europe, and will complete an internship at one of 35 academic, research and industrial partners around the world. A number of fully funded scholarships are available for both UK/EU and international students. For further information, see: www.infectious-diseases-one-health.eu

Programme structure

In Year 1, you will spend the first semester at Université de Tours and cover basic immunology, vaccinology, drug development and host pathogen interactions. The second semester will be spent at Universitat Autònoma de Barcelona and deals with epidemiology, zoonoses, biosafety and biosecurity.

In Year 2, you will spend the first semester studying here in Edinburgh, covering animal models for infectious and non-infectious diseases, laboratory techniques and analytical methods. During the second semester you will complete your research internship at one of our partner or associate partner organisations worldwide.

Career opportunities

Graduates will have a wide range of skills in the area of infectious disease biology, interactions between disease, environment and host, modern animal science, and laboratory techniques. You will also have valuable generic skills, such as producing and presenting scientific material, communicating with people from a wide range of cultures, and hypothesis development and testing. This will be a unique basis for further study or employment, particularly in developing countries where the burden of infectious disease is significant. Depending on your initial background (medical, veterinary, scientific or therapeutic) you may find employment exploiting your new knowledge to reduce the impact of infectious disease.

Entry requirements

A UK 2:1 honours degree, or its international equivalent (www.ed.ac.uk/international/graduate-entry), in biological sciences with a major in immunology, infectious diseases or microbiology, or in veterinary, medical or pharmaceutical sciences. Your degree must have involved a minimum of three years full-time study and correspond to a minimum of 180 ECTS.

English language requirements

See page 34.

Fees and funding

For fees see page 34 and for funding information see page 36.

Programme Director Bob Dalziel

Email master-emjmd-idoh@univ-tours.fr

www.ed.ac.uk/pg/950

Professional Doctorate of Veterinary Medicine

DVetMed 4 yrs FT

Programme description

The professional Doctorate of Veterinary Medicine will provide an opportunity for qualified veterinary surgeons to undertake a period of advanced clinical training in a chosen specialty under the guidance and supervision of the Royal College of Veterinary Surgeons and European/American veterinary specialists.

The programme will consolidate and enhance evidence based-knowledge, skills, abilities and attitudes to enable independent practice to the standard of a recognised specialist in the chosen discipline. Additionally, it will provide you with training in and experience of research. You will be required to produce a dissertation, defend it at viva examination, and present and publish your findings. The programme will provide training and experience of teaching, as well as access to option courses in specialty-relevant areas.

Programme structure

You will undertake SCQF level 12 core courses of specialist training in your chosen discipline and a selection of SCQF level 11 courses. Studying for four years at 180 credits a year is more than a standard professional doctorate but this allows the programme to align with specialist clinical training at the R(D)SVS, provides you with increased depth to your clinical training, and provides training and experience in research and clinical teaching.

Career opportunities

The specialist training in clinical techniques, research and teaching will afford you many opportunities. After graduating you will be able to seek career advancement/specialism within your clinical setting, as well as following research and/or teaching roles should you choose.

Entry requirements

A degree in veterinary medicine (BVM&S Veterinary Medicine or equivalent), membership of the Royal College of Veterinary Surgeons (MRCVS), and a minimum of one year's postgraduate clinical experience.

English language requirements

See page 34.

Fees and funding

For fees see page 34 and for funding information see page 36.

Programme Director Richard Reardon

Email dvetmed@ed.ac.uk

Key FT: Full time. PT: Part time.

The University of Edinburgh
Veterinary & Agricultural Sciences Postgraduate Opportunities 2019

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 to 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.

Entry requirements

A degree in veterinary medicine (BVM&S Veterinary Medicine or equivalent).

English language requirements

See page 34.

Fees and funding

For fees see page 34 and for funding information see page 36.

Programme Director Fiona Houston

Email fiona.houston@roslin.ed.ac.uk

See also...

You may also be interested in masters programmes offered by other schools within the University, particularly Edinburgh Medical School, 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're the UK's top-ranked veterinary school for research. Our Easter Bush campus is home to both the world-renowned Royal (Dick) School of Veterinary Studies and the world-famous Roslin Institute, which is the research arm of the School.

The Easter Bush site was redeveloped in 2011 providing both R(D)SVS and the Roslin Institute 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 the Roslin Institute 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 application of basic animal sciences in human and veterinary medicine, the livestock industry and food security.

Research within the School is organised into six divisions:

Division of Clinical Veterinary Sciences

Research in the Division of Clinical Veterinary Sciences 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 health and welfare of domestic animal species, including both companion animals and livestock, and aims to provide solutions to the global challenges in human and veterinary medicine. Wildlife and conservation medicine is also included as one of the key initiatives in the School's strategic research plan.

Division of Developmental Biology

Research in the Division of Developmental Biology aims to enhance fundamental knowledge of the control of cellular growth and differentiation. Research focuses on animal biotechnology and stem cells, tissue and organ development, and disease and repair, with the aim of developing better disease intervention strategies and enhancing food security.

Division of Genetics and Genomics

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

Division of Infection and Immunity

Research in the Division of Infection and Immunity aims to enhance understanding of the mechanisms by which pathogens cause disease and the host defends itself, with the overall aim of translating this understanding into prevention and treatment. Our research programmes investigate a wide range of host/pathogen interactions, including infections with viruses, bacteria, parasites and spongiform encephalopathies in farmed animals, humans and model systems. We have strong programmes examining pathogen variation, the host immune response, genetic resistance to disease and epidemiology of disease.

Global Academy of Agriculture and Food Security

Research in the Global Academy of Agriculture and Food Security aims to improve the effectiveness and sustainability of agri-food systems through support of global food and environmental security, sustainable rural development, and animal and human wellbeing. Improving the effectiveness and sustainability of agri-food systems is vital to tackling the challenges of global population growth, rapid urbanisation, food and environmental security, and diet and health. These challenges occur in low and middle income countries, as well as industrialised nations. Achieving sustainable, healthy diets underpins many of the Sustainable Development Goals – especially those concerned with hunger, poverty, health, gender equality, responsible consumption and production, and climate action.

Veterinary Medical Education Division

The Veterinary Medical Education Division is the organisational hub for the learning and teaching community at the R(D)SVS, coordinating staff development and carrying out educational research within veterinary education and collaborating across disciplines within the University. Staff in the division conduct research in many areas of learning, teaching and assessment and collaborate on several national and international projects.

Networking Opportunities

Edinburgh Infectious Diseases

Edinburgh Infectious Diseases is the organisational hub for an extensive community of infectious disease scientists working across 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. Edinburgh Infectious Diseases organises specialist workshops bringing together scientists from across the University, supports seminars and facilitates interactions and interdisciplinary research.

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.

Research opportunities

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

A master of science by research (MSc by Research) gives you an excellent grounding in research, and can serve as a stepping-stone to a PhD. These programmes involve research training and a research project. They take one year to complete and are examined by thesis.

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

The following list of research areas offered by the School 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.

BBSRC EASTBIO Doctoral Training Partnership Shaping bioscience research training in the east of Scotland

EASTBIO DTP provides world-class bioscience doctoral training in four areas of strategic priority: basic bioscience underpinning health (ageing); bioenergy and industrial biotechnology; food security; and world-class bioscience. We offer an excellent programme of collaborative training for PhD students in Aberdeen, Dundee, Edinburgh and St Andrews, at four of the UK's leading research intensive universities. For more information see: www.eastscotbiotdp.ac.uk

Entry requirements

You should have an undergraduate degree in veterinary medicine or medicine, or a UK 2:1 honours degree or its international equivalent (www.ed.ac.uk/international/graduate-entry) in an appropriate subject. Please check the specific entry requirements for your programme online before applying.

Career opportunities

Most of our research students progress to postdoctoral posts at universities and research institutes internationally. Others have moved on to roles including scientific adviser, geneticist and virologist or have commenced careers in academia

In 2017/18,
almost 95 per cent of
our research students
received funding for
their tuition fees.

www.ed.ac.uk/pg/957

Agriculture & Food Security

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

Research profile

Our mission is to provide world-leading research and training in support of global food and environmental security, sustainable rural development, and animal and human wellbeing. Improving the effectiveness and sustainability of agri-food systems is vital to tackling the challenges of global population growth, rapid urbanisation, food and environmental security, and diet and health.

These challenges occur in low- and middle-income countries, as well as industrialised nations. Achieving sustainable, healthy diets underpins many sustainable development goals – especially those concerned with hunger, poverty, health, gender equality, responsible consumption and production, and climate action.

We welcome applicants whose research interests are aligned to address one or more of these challenges, and hold the potential to develop and translate scientific advances into policy and practice.

This programme is associated with the Global Academy of Agriculture and Food Security, which encompasses research addressing global food and environmental security, sustainable rural development, and animal and human wellbeing. Our current specific expertise spans human, livestock, crop and soil nutrition and health; environmental and agri-food systems; crop and livestock production systems; climate smart agriculture; agricultural and natural resource economics; development; data science and mathematical modelling; the science-policy interface; food and land rights and law.

English language requirements

See page 34.

Fees and funding

For fees see page 34 and for funding information see page 36.

Contact Postgraduate Secretary

Email vetpgresearch@ed.ac.uk

Key FT: Full time. PT: Part time.

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 R(D)SVS. 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; and an auditorium where we regularly host workshops and invited speakers.

English language requirements

See page 34.

Fees and funding

For fees see page 34 and for funding information see page 36.

Contact Postgraduate Secretary

Email vetpgresearch@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 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 34.

Fees and funding

For fees see page 34 and for funding information see page 36.

Contact Postgraduate Secretary

Email vetpgresearch@ed.ac.uk



Key FT: Full time. PT: Part time.

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 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 34.

Fees and funding

For fees see page 34 and for funding information see page 36.

Contact Postgraduate Secretary

Email vetpgresearch@ed.ac.uk

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 challenges, 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 34.

Fees and funding

For fees see page 34 and for funding information see page 36.

Contact Postgraduate Secretary

Email vetpgresearch@ed.ac.uk



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 Regenerative Medicine 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 could provide 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



See also...

You may also be interested in research opportunities offered by other schools within the University, particularly Edinburgh Medical School, 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



About the Royal (Dick) School of Veterinary Studies

The Royal (Dick) School of Veterinary Studies at the University of Edinburgh was founded in 1823 and has an international reputation for excellence in teaching, research and clinical service.

We were ranked 8th in the world for Veterinary Science in the QS World University Rankings by subject 2018 and in the most recent Research Excellence Framework were ranked first in the UK for research power in agriculture, veterinary and food science (*Research Fortnight*, REF 2014).

Postgraduate Experience

Located at the Easter Bush Campus (see page 38), we offer you the opportunity to study at a dynamic modern campus with world-class facilities, including state-of-the-art lecture theatres and laboratories. The campus includes large and small animal hospitals and offers access to the latest imaging technologies. It has excellent cafeterias and a gym and is situated in beautiful surroundings on the outskirts of Edinburgh.

As part of the University of Edinburgh College of Medicine & Veterinary Medicine, we interact closely with our colleagues in the Edinburgh Medical School as well as the Schools of Biological Sciences and GeoSciences in the College of Science & Engineering. This offers you access to a vast array of expertise and technologies. We also share laboratory space at Easter Bush with Scotland's Rural College, providing additional excellent opportunities for collaboration across the land-based industries and farming sector.

The Roslin Institute

The Roslin Institute joined the University of Edinburgh in 2008 and is the research arm of the R(D)SVS. The Roslin Institute is a world leading institute for animal bioscience. In 2011, it moved to a new building at Easter Bush Campus with state-of-the-art facilities for carrying out world-class research.

The Roslin Institute aims to enhance the lives of animals and humans through basic and translational research, and tackle some of the most pressing issues in animal health and welfare.

Research at the Institute is focused on gaining fundamental understanding of the genetic, cellular, organ and systems bioscience underpinning common mechanisms of animal development and pathology, and using this knowledge for prevention and treatment of important veterinary diseases, as well as developing sustainable farm animal production systems.

Close interactions with the Edinburgh Medical School ensure that this research underpins the one health philosophy, delivering maximum benefit for humans, animals and the environment.

The Jeanne Marchig Centre for International Animal Welfare Education

The Jeanne Marchig Centre for International Animal Welfare Education is located within the R(D)SVS. The Centre aims to improve the quality of life for all animals through education, training and by influencing policy at the highest level. It offers a range of training courses and programmes.

Global Academy of Agriculture & Food Security

The Global Academy of Agriculture & Food Security (see page 33) aims to provide world leading research, innovation, education, and training and consultancy in support of global food and environmental security, sustainable rural development, and animal and human wellbeing.

Breadth and diversity

We offer a wide range of taught postgraduate programmes, both on campus and by online learning, incorporating continuing professional development for vets and scientists. Our research is focused under six themes:

- developmental biology
- infection and immunity
- genetics and genomics
- agriculture and food security
- clinical veterinary sciences
- veterinary medical education.

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 Dolly the sheep – the world's first animal to be cloned from an adult somatic cell – by the team of scientists led by Professor Sir Ian Wilmut.

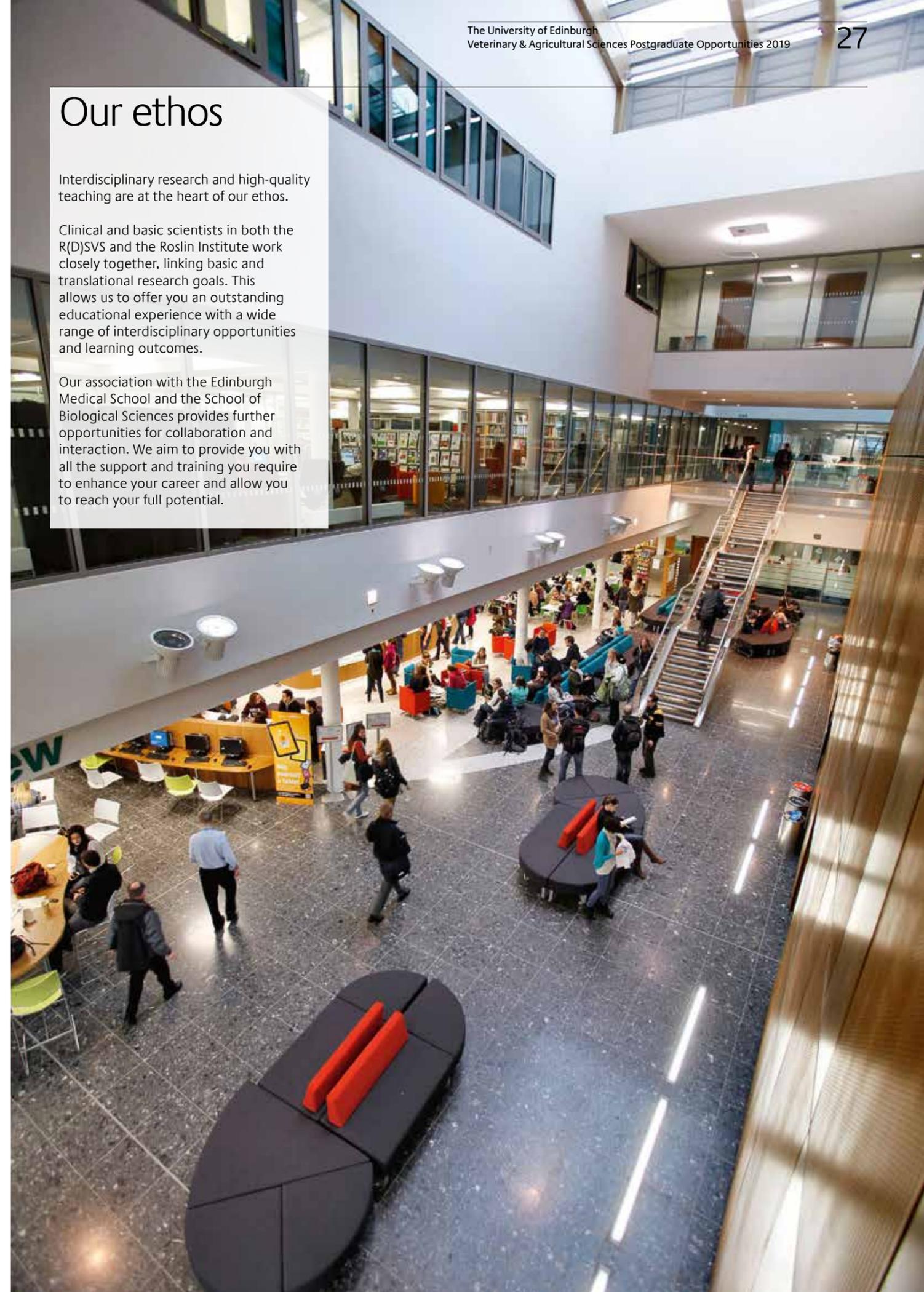
Today, R(D)SVS postgraduate students from all over the world study on campus and online. Our students and alumni form an active global network who continue to interact throughout their careers.

Our ethos

Interdisciplinary research and high-quality teaching are at the heart of our ethos.

Clinical and basic scientists in both the R(D)SVS and the Roslin Institute work closely together, linking basic and translational research goals. This allows us to offer you an outstanding educational experience with a wide range of interdisciplinary opportunities and learning outcomes.

Our association with the Edinburgh Medical School and the School of Biological Sciences provides further opportunities for collaboration and interaction. We aim to provide you with all the support and training you require to enhance your career and allow you to reach your full potential.



Graduate School

Our Graduate School provides an interdisciplinary, College-wide support network for all postgraduate students and staff. It is home to more than 3,100 postgraduate students studying within the R(D)SVS and 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 your postgraduate student experience is world-class. It promotes the sharing of good practice across all teaching and research platforms, and aims to ensure that whether you study on campus or online, your academic and pastoral needs are appropriately provided for.

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

Graduate School Hub at R(D)SVS

While studying at the R(D)SVS you will be supported by a team of administrators based in the Postgraduate Hub in the vet school building and in The Roslin Institute.

Our nine MSc administrators are the first point of contact for all taught postgraduate students and staff.

The administrators work as a team with seven staff supporting online learning programmes and two staff supporting on-campus programmes. As well as dealing with all aspects of programme administration, they are the front line student support officers for any queries or issues, with the knowledge and experience to direct you to the appropriate resource for additional support.

Our postgraduate research administrators are based in the Roslin Institute building. They provide support for our MSc by Research and PhD students and staff and for the clinical scholars programme. We also have a Continuing Professional Development (CPD) administrator who supports the delivery of online and on-site CPD courses, including the Certificate in Advanced Veterinary Practice.



Community

We aim to foster a close community of postgraduate students.

Our on-campus students are members of the Easter Bush Postgraduate Student Society, which brings together postgraduate researchers, taught masters students and veterinary clinical scholars for social and academic activities. If you study on campus as a masters student, you will work closely with your classmates through tutorials, lectures and seminars, becoming part of a close-knit group over the duration of your programme.

However, distance is no barrier if you choose to study online. Our online learning postgraduates are a diverse group of students from all over the world, united by their academic interests. Using our award-winning interactive learning environments, our online students and tutors maintain a supportive virtual community that ensures you get the best from your studies. If you can't attend your graduation ceremony in person you can even enjoy a virtual graduation at the same time.

We encourage our research students to interact and get to know each other through a series of induction activities in the School and through the Postgraduate Society. There is a wide range of seminar series, and team-building and development exercises are available through the Institute for Academic Development. You are encouraged to interact with the wider University postgraduate community

through cross-school networks such as Edinburgh Infectious Diseases, Edinburgh Neuroscience and the Edinburgh Immunology Group, and by participating in the University-wide Three Minute Thesis competition. You are also encouraged to take part in public engagement events organised by the Roslin Institute and the R(D)SVS and to actively communicate about your science outside the University.

Networking spaces are vital in the fostering of a strong community and we are fortunate within the School to have excellent communal spaces for this purpose at the Easter Bush campus.

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

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

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



Research and teaching environment

Each year, we support the training of more than 200 research students plus around 550 postgraduate students and 200 qualified veterinary surgeons undertaking taught programmes on campus or online.

The majority of our research students are based in the Roslin Institute, which is the research arm of the R(D)SVS. The Roslin Institute's vision brings together a coordinated commitment to research and research training, providing an excellent environment for our research students.

More than 90 principal investigators are involved in research programmes aimed at improving the health and welfare of animals and humans, protecting the environment and supporting 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.

If you are undertaking a taught programme you will benefit from interactions with research active staff who will expose you to the latest research and ideas.

We also provide opportunities for qualified veterinary surgeons to undertake advanced clinical training in a range of specialist disciplines under the guidance and supervision of the Royal College of Veterinary Surgeons, and European and American veterinary specialists, and to gain experience in research along with full-time research teams.

Whether you're undertaking specialist research training or a masters dissertation, we offer a wealth of interdisciplinary opportunities.

More information about research in the Roslin Institute can be found online at: www.ed.ac.uk/roslin



Facilities

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

Our Easter Bush Campus has two lecture theatres capable of holding 200 students and a 300-seater auditorium for seminars and conferences, along with more than 20 rooms for tutorials and meetings. IT support is located on site and there is access to excellent computing facilities. Our dedicated on-site e-learning team provides full support for all our online learning students.

The Roslin Institute houses laboratories with state-of-the-art equipment, an imaging suite and the sequencing facilities for Edinburgh Genomics. The Easter Bush Campus has facilities for large and small animal imaging, diagnostic and pathology services and is home to the National Avian Research facility (NARF), which houses both inbred and transgenic bird lines. There are also on-site facilities for the development of both large and small transgenic animals and for research on infectious diseases of livestock and small animals.

Collections of the University

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

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

Employability and graduate attributes

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

Throughout your postgraduate studies we support you with advice and training on effective study, exams and assignments, numeracy and data analysis, specific postgraduate writing skills and finding and using academic sources. We offer learning opportunities to develop your information and IT skills, for personal development and to help you work, study and research more effectively. We run a series of workshops for taught masters students, specifically Masters Study Skills: Critical Reading, Essay Planning and Writing. Our research students can develop their planning skills, professional development, communication and IT skills through a wide range of courses developed specifically with the medical and veterinary medicine sectors in mind.

Institute for Academic Development

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

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

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

IAD also provides a comprehensive programme of transferable skills training,

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

Careers Service

Our Careers Service plays an essential part in your wider student experience at the University, offering a range of tailored careers and personal development guidance and support. We support you to recognise the wealth of possibilities ahead, while at university and after graduation, helping you explore new avenues, tap into your talents and build your employability with confidence and enthusiasm.

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

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

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

Platform One

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

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

Backing bright ideas

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

The University of Edinburgh is ranked in the top 100 in the world for the employability of our graduates.*
*Times Higher Education Global Employability University Ranking 2017

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 English.

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 academies

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

Global Academy of Agriculture & Food Security

Improving the effectiveness and sustainability of agri-food systems is vital to tackling the challenges of global population growth, rapid urbanisation, food and environmental security, diet and health. These challenges occur in low and middle-income countries, as well as industrialised nations.

The University's new Global Academy of Agriculture & Food Security aims to provide world leading research, innovation, education, and training and consultancy in support of global food and environmental security, sustainable rural development, and animal and human wellbeing. The University's investment of around £35 million for this new academy will help us achieve our vision of sustainable development in global agriculture and rural land-based and aquatic economies.

More information: www.ed.ac.uk/global-agriculture-food-security

Applications and fees

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

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

General requirements

Our usual minimum entrance requirement for postgraduate study is a UK undergraduate 2:1 honours degree, or its international equivalent (www.ed.ac.uk/international/graduate-entry), in a subject related to your chosen programme. You will also need to meet the University's language requirements (see below).

Entry requirements for individual programmes can vary, so check the details for the specific programme you wish to apply for.

References

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

Deadlines

Online and on-campus taught programmes

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

Research programmes

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

English language requirements

Students whose first language is not English must show evidence of one of the qualifications listed below.

RCVS Certificate in Advanced Veterinary Practice (online 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 language skills to an overall IELTS score of 7 before the candidate can sit the membership exam. The University provides and assesses modules for candidates to complete towards the certificate on behalf of the RCVS but does not accredit these modules towards a final degree award. Consequently, the University does not set a minimum language requirement for entry. Although it is not essential that you have evidence of your level of English when applying, we would strongly recommend that you are confident in your level of written and spoken English to ensure that you gain the greatest benefit from taking part in the certificate.

Professional Doctorate of Veterinary Medicine

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

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).
- Trinity ISE: ISE II (with distinctions in all four components).

Please note:

- English language requirements can be affected by government policy so please ensure you visit our degree finder to check the latest requirements for your programme: www.ed.ac.uk/postgraduate/degrees
- Your English language certificate must be no more than three years old at the beginning of your programme, unless you are using an English language test such as IELTS in which case it must be no more than two years old.
- We also accept recent degree-level study that was taught and assessed in English in a majority English-speaking country (as defined by UK Visas & Immigration), or at a university in a non-majority English-speaking country which has specifically been approved by the University of Edinburgh's Admissions Qualifications Group. A list of approved universities is published online. The award date must be no more than three years prior to the start date of the programme.
- We do not require you to take an English language test before you apply.

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; Trinity ISE – Integrated Skills in English.

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

Tuition fees

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

Please note:

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

Asylum seeker tuition fee status and scholarship

- Information for applicants seeking asylum from within the United Kingdom, who wish to commence a programme of study at the University in 2019, is available online. This includes our tuition fee rates and scholarship opportunities: www.ed.ac.uk/student-funding/asylum

Tuition fees for EU students

EU students enrolling in the 2019/20 academic year will be admitted as Scottish/EU fee status students. Taught masters students will be eligible for the same tuition support as Scottish domiciled students from the Student Awards Agency Scotland (SAAS).

For UK/EU students

	Annual fee
MSc Animal Biosciences 1-year FT	£13,000
MSc Applied Animal Behaviour & Animal Welfare 1-year FT	£10,200
MSc Applied Animal Behaviour & Animal Welfare 2-years PT	£5,100
MSc Applied Animal Behaviour & Animal Welfare 3-years PT	£3,400
MSc by Research/MVetSci by Research FT	£8,300
MSc by Research PT	£4,150
PhD 3-years FT	£4,260*
PhD 6-years PT	£2,130*

Online Learning

	Annual fee
60 credits	£5,170
Intermittent study is charged pro rata on a course-by-course basis.	

For international students

	Annual fee
MSc Animal Biosciences	£29,600
MSc Applied Animal Behaviour & Animal Welfare 1-year FT	£19,700
MSc by Research/MVetSci by Research FT	£26,600
PhD 3-years FT	£22,200

* Figure shown is the 2018/19 fee level

All other fees quoted are indicative of 2019/20 fee levels. Because these figures are indicative, it is important you check online before you apply and check the up-to-date fee level that will apply to your specific programme: www.ed.ac.uk/student-funding/tuition-fees/postgraduate

Funding

A large number of scholarships, loans and other funding schemes are available for your postgraduate studies. It is only possible to show a small selection in print. To see the full range, please visit: www.ed.ac.uk/student-funding/postgraduate

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

Within the School, almost 95 per cent of our research students received funding for their tuition fees in 2017/18. However, the majority of taught students are self-funded although there are some funding packages available for both on-campus and online learning students.

Here we list a selection of potential sources of financial support for postgraduate students applying to the College of Medicine & Veterinary Medicine. This list was correct at the time of printing but please check the full and up to date range online (see above).

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

Scholarships at the University of Edinburgh

- **Beit Trust** ●●
Beit Trust and the University of Edinburgh Scholarships jointly fund postgraduate students from Malawi, Zambia and Zimbabwe to undertake a masters: www.beittrust.org.uk
- **Edinburgh Global Masters Scholarships** ●●
A number of scholarships are available to international students for masters study: www.ed.ac.uk/student-funding/masters
- **Edinburgh Global Research Scholarships** ●
These scholarships are designed to attract high-quality international research students to the University: www.ed.ac.uk/student-funding/global-research
- **Edinburgh Principal's Career Development Scholarships** ●
A number of scholarships, open to UK, EU and international PhD students: www.ed.ac.uk/student-funding/development
- **Enlightenment Scholarships** ●
The University is currently developing a new style of PhD scholarship to attract the best PhD applicants from around the world. These scholarships will provide funding for up to four years. For the latest information, and for details on which Schools will be participating, please check: www.ed.ac.uk/student-funding/enlightenment

Julius Nyerere Masters Scholarship (Tanzania) ●●

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

Research council awards

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

Normally only those UK/EU students who have been resident in the UK for the preceding three years are eligible for a full award. For some awards, candidates who are EU nationals and are resident in the UK may be eligible for a fees-only award. The UK Government has confirmed that EU postgraduate research students commencing their studies in 2019/20 will retain their fee status and eligibility for research council support for the duration of their programme: www.ed.ac.uk/student-funding/research-councils

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

- **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.iraqiculturalattache.org.uk
- **Mexico**
National Council of Science and Technology of the United Mexican States (CONACYT): ●●●
www.conacyt.mx
Banco de Mexico and the Banco de Mexico's FIDERH trust (FIDERH): ●●●
www.fiderh.org.mx
Fundacion Mexicana para la Educacion, la Tecnologia y la Ciencia (FUNED): ●●
www.funedx.org

Loans available for study at the University of Edinburgh

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

- **The Canada Student Loans Program** ●●●
The University is eligible to certify Canadian student loan applications: www.ed.ac.uk/student-funding/canadian-loans
- **Erasmus+** ●
The Erasmus+ Master Loan helps masters students with their living and tuition costs when studying in an Erasmus+ country other than where they live or where they took their first degree. For more information: <https://erasmusplus.org.uk/master-loan>

Postgraduate Doctoral Loans England ●

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

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

Postgraduate Loans (PGL) England ●●

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

Postgraduate Loans (PGL) Northern Ireland ●●

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

Postgraduate Loans (SAAS) Scotland and EU ●●

The Student Awards Agency Scotland offers tuition fee loans for taught diploma and masters programmes which will be paid directly to the University. Full-time students resident in Scotland can also apply for a non-income assessed living cost loan: www.saas.gov.uk

Postgraduate Loans (PGL) Wales ●●

Student Finance Wales offers eligible students postgraduate loans for taught and research masters programmes: www.studentfinancewales.co.uk

US Student Loans ●●●

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

Other sources of funding

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

- **Chevening Scholarships** ●●
A number of partial and full funding scholarships are available to one-year masters students: www.chevening.org
- **Commonwealth Scholarships** ●●●
Scholarships available to students who are resident in any Commonwealth country, other than the UK: www.dfid.gov.uk/cscuk
- **Marshall Scholarships (USA)** ●●●
Scholarships available to outstanding US students wishing to study at any UK university for at least two years: www.marshallscholarship.org
- **Scotland's Saltire Scholarships** ●●
A number of scholarships open to students who are citizens permanently and ordinarily resident in Canada, China, India, Japan, Pakistan and the USA for one year of masters study: www.ed.ac.uk/student-funding/saltire

Funding for online learning

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

"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

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.

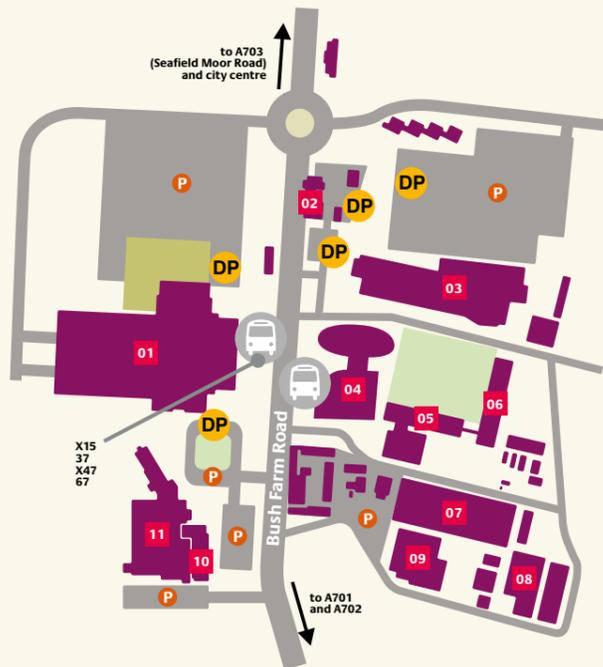


Easter Bush

The majority of our on-campus students are based at Easter Bush.

- 01 Royal (Dick) School of Veterinary Studies – William Dick Building
- 02 Campus Service Centre
- 03 Roslin Institute Building
- 04 Charnock Bradley Building, Roslin Innovation Centre and Campus Hub
- 05 Farm Animal Practice and Equine Clinical Unit
- 06 Sir Alexander Robertson Building
- 07 Equine Hospital
- 08 Scintigraphy and Exotic Animal Unit
- 09 Farm Animal Hospital
- 10 Riddell-Swan Veterinary Cancer Centre
- 11 Hospital for Small Animals

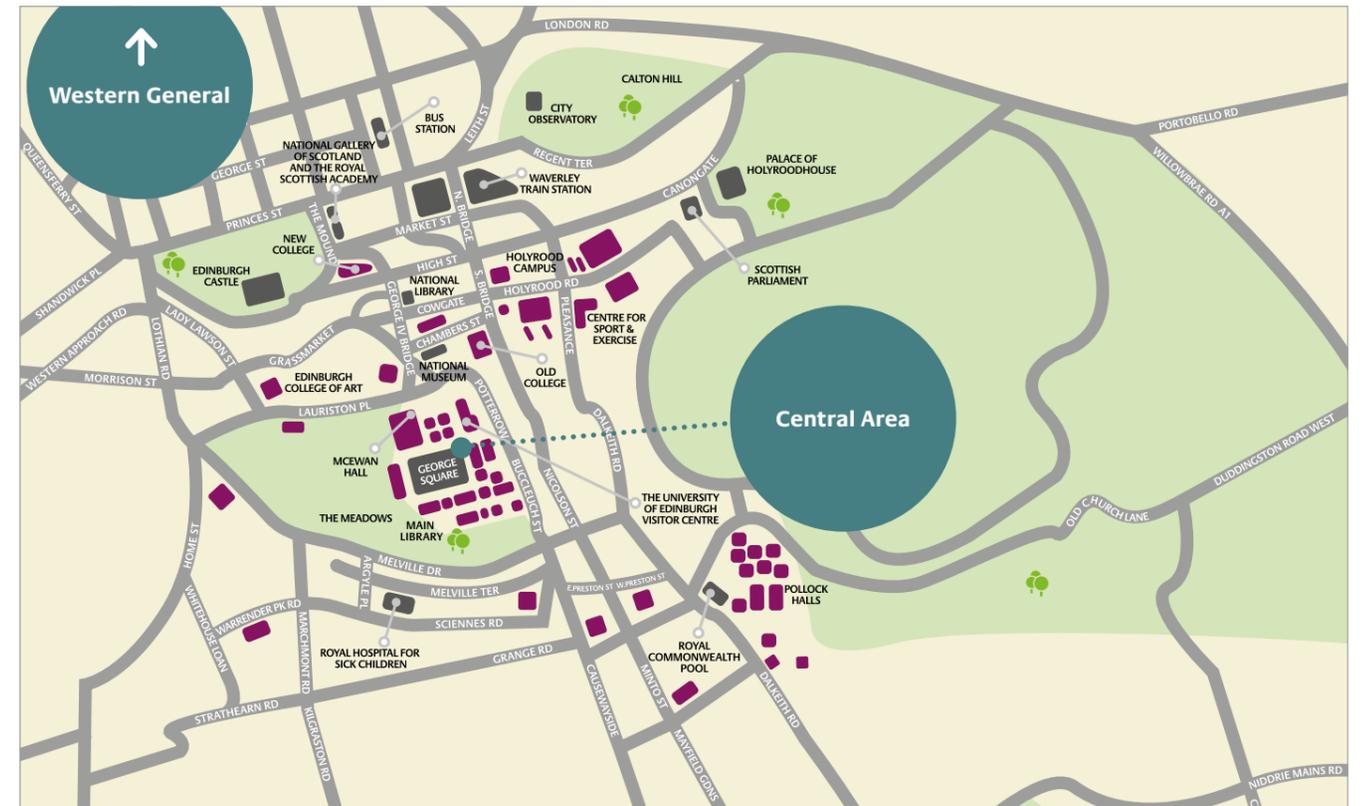
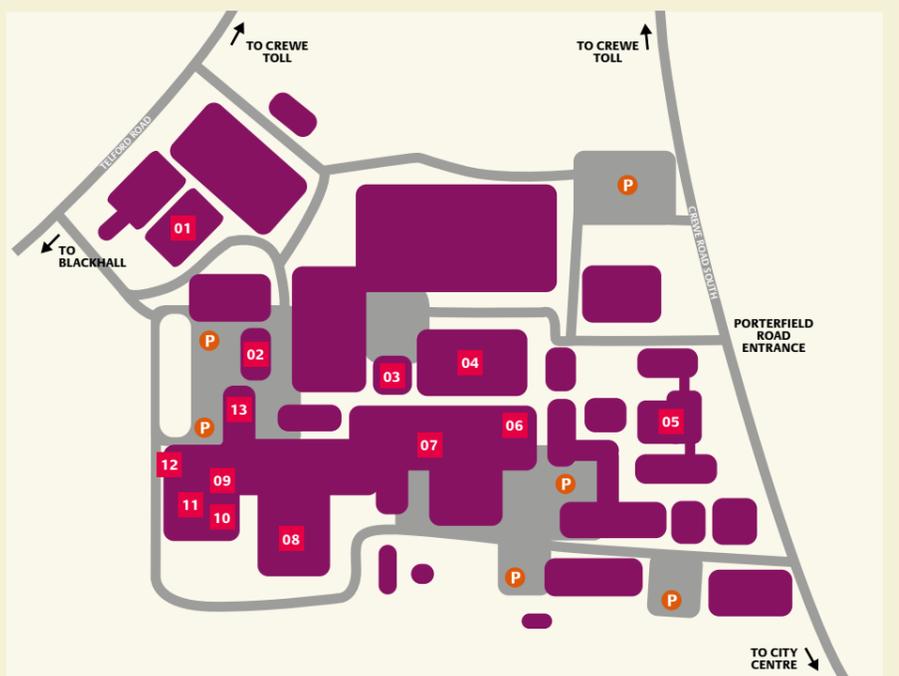
- Parking
- Disabled permit parking
- Public bus



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

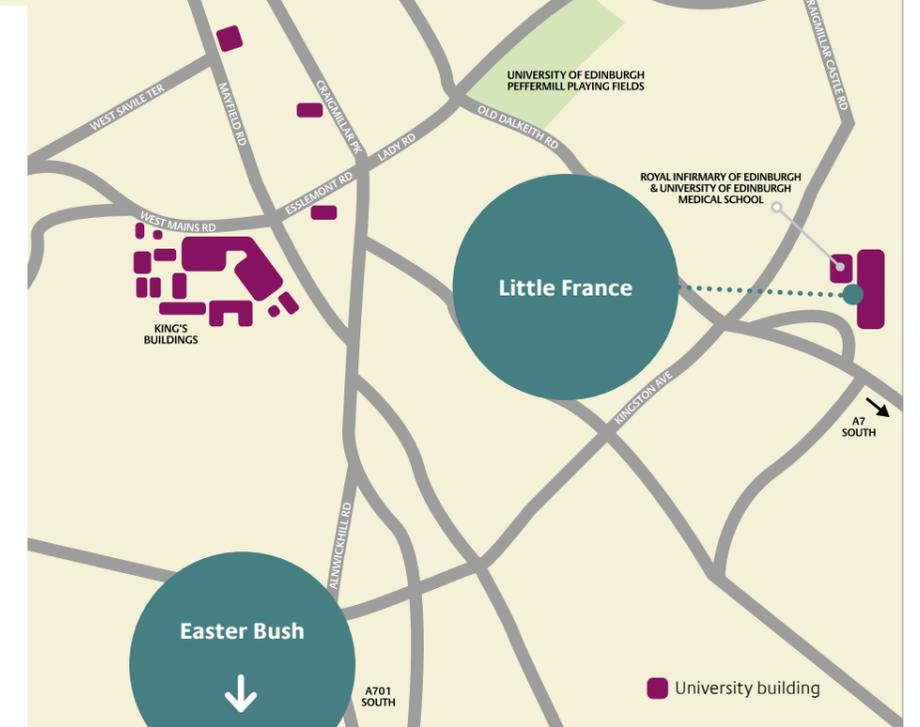
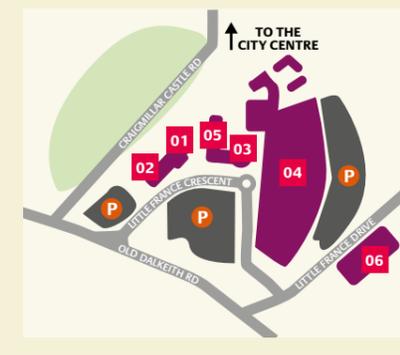
- Parking



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

- Parking



Easter Bush

University building

Get in touch

Contact us

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6478/6617

Email mvmpeg@ed.ac.uk

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

Explore postgraduate life through our films, ezines and student blogs.
www.ed.ac.uk/medicine-vet-medicine/postgraduate/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 14 November 2018. For more information, visit: www.ed.ac.uk/postgraduate-open-day

Our visits to you

If you are unable to visit the University, we attend events throughout the year so you can meet and speak to us in person.

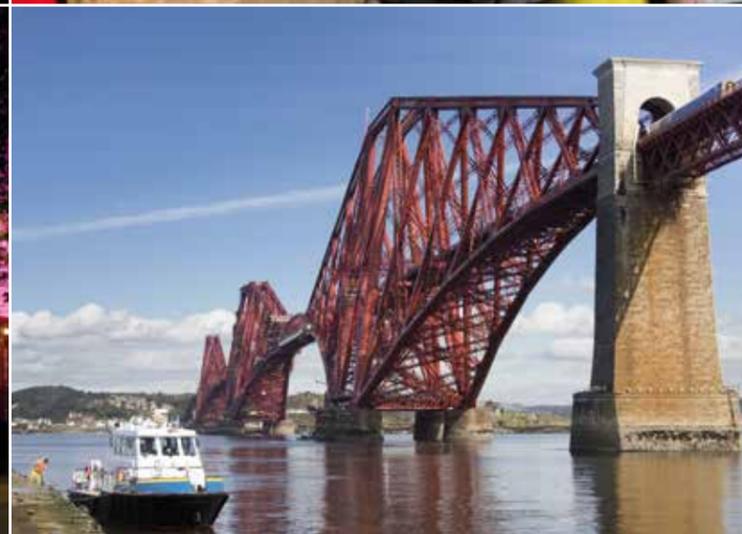
UK and Europe: www.ed.ac.uk/postgraduate/uk-eu-events

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

Chat online

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

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



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

Thomas Jefferson, American Founding Father and President
(speaking to his son-in-law, Thomas Mann Randolph, as he began his studies at Edinburgh in 1786)

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Illustration by:

Victoria Rose Ball, BA (Hons) Illustration

The front cover shows an illustration of the veterinary teaching building at the Easter Bush campus. The campus brings together world-class facilities for outstanding veterinary education, world leading agricultural and veterinary research and clinical excellence.

#drawntoedinburgh

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We have made every effort to ensure the accuracy of the information in this prospectus before going to print. However please check online for the most up-to-date information: www.ed.ac.uk

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

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

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