Veterinary Studies

Postgraduate Opportunities 2017
“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

The University of Edinburgh
Veterinary Studies Postgraduate Opportunities 2017

Introduction
Online distance learning masters programmes
Postgraduate professional development
On-campus taught masters and masters by research programmes
A world-class research experience
Research opportunities
About the Royal (Dick) School of Veterinary Studies
Our ethos
Graduate School
Community
Research and teaching environment
Facilities
Employability and graduate attributes
Applications and fees
Funding
Campus maps
Get in touch
For more than 400 years the University of Edinburgh has been changing the world. Our staff and students have explored space, won Nobel Prizes and revolutionised surgery. They’ve published era-defining books, run the country, made life-saving breakthroughs and laid the foundations to solve the mysteries of the universe.

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

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

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

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

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

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

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

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

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

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

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

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

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

The Royal (Dick) School of Veterinary Studies (R(D)SVS) has been teaching masters programmes for candidates with a first degree in veterinary medicine, or in a relevant biological or animal science subject, for more than a decade. The programmes offered include taught masters, taught diplomas and taught certificates in the fields of animal behaviour, conservation medicine and veterinary public health.

Applicants to the programmes must meet the University’s English language and academic requirements (see programme website for details). The University of Edinburgh is a multi-cultural institution and attracts students from around the world. 

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 animals 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. Conducting research while working as an employed veterinary professional is a difficult challenge for many practitioners. Online distance learning (ODL) provides an alternative mode of delivery where participants will be supported in their learning from home while connecting them to experts in their specialty.

Programme structure

The programme is delivered part-time by online distance 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. The programme offers a flexible student-centred approach to the choice of courses studied. You can choose to take a particular combination of courses that meet your individual professional needs. You can take one full year of the programme and utilise modules from the MSc in Clinical Animal Behaviour as part of your MSc or from the diploma year to complete a part-time diploma qualification. You can choose courses to suit your needs and adjust your course load each year.

Care opportunities

Opportunities for graduates will include enhanced promotion within the veterinary clinical practice sector and roles within veterinary-based industries, particularly in feed and pharmaceutical manufacturers. The programme also offers an entrance point for academic clinical positions coming from the private practice sector.

Career opportunities

Graduates are expected to find work in the field of companion animal behaviour and welfare as well as working in education, or as advisors with governments and non-governmental organisations. Opportunities for students who would like to pursue academic careers are excellent.

Programme description

Clinical Animal Behaviour

The programme is designed for veterinary practitioners who wish to enhance their career prospects in academia, research, governmental and non-governmental organisations and consultancies.

Residential ‘hands-on’ practical course

You will have the opportunity to participate in a residential course in India that will provide you with the practical skills required to complement your learning. In conjunction with colleagues in the Wildlife Institute of India and the Zoological Society of London, this course covers key practical skills including wildlife population monitoring, disease investigation and wild animal restraint and anaesthesia.

Entry requirements

A UK 2.1 honours degree or its international equivalent (www.ed.ac.uk/internationalgraduate-entry) with a biological background, for example a degree in veterinary medicine, zoology, biology, agricultural science, environmental science or animal or companion animal science. English language requirements

Annual fee

For information on the annual fee, please visit www.ed.ac.uk/pg/911

Programme description

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

Programme director

Natalie Waran

Email: msccab@ed.ac.uk

Fees and funding

For fees see page 26 and for funding information see page 28.
Disease in Livestock Ecosystems: Dynamics & Control

Programme description
This programme provides scientific knowledge of the fundamental biological processes (such as behaviour, physiology, immunology and ecology) and the 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, which facilitates prediction of disease risk and control.

The multidisciplinary systems approach provides you with the skills to understand the roles of animal health professionals in tackling the grand challenges of food security, climate change and disease control.

By the end of the programme you will have a detailed understanding not only of the biology driving disease persistence and prevalece but also of 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 interdisciplinry systems thinking and communication). Furthermore, the systems approach offers a way to frame disease challenges and disease risk at a range of scales from veterinary to specific on-farm disease challenges to the consequences of climate change on disease risk.

This programme is provided in partnership with Scotland's Rural College (SRUC). It is taught by active researchers presenting their own research, in context with global grand challenges. As such, you will be exposed to and taught research skills.

Programme structure
The programme is delivered online, part-time by intermittent study (flexible progression route) accruing credits within the time limits noted above. For MSc this includes a maximum period of 12 months from the start of your dissertation to its completion.

Career opportunities
You will graduate with a general postgraduate training, suitable for people in education, government, policy-making, agricultural and veterinary organisations; and topic-specific training, suitable for veterinarians for continuing professional development. This will prepare you for a variety of promotion or further employment opportunities or provide personal fulfilment. The programme 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 26.

Programme contact
Angela Harding or Spiridoula Athanasiadou
Tel +44 (0)31 650 7257
Email dile-dac@ed.ac.uk

Equine Science

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

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

Programme structure
The 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 in Equine Science, Equine Digestion and Nutrition;
- Equine Behaviour and Welfare; Equine Orthopaedics;
- Equine Reproduction; Equine Education; Equine Exercise Physiology.

FINAL YEAR
Your dissertation of 10,000 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, vet farms, pharmaceuticals and consultancy firms; government bodies, such as ADAS and DEFRA; and welfare organisations such as the RSPCA, WSPA and LPH.

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 26.

Programme Manager
Bryony Lancaster
Tel +44 (0)31 650 8783
Email equine.science@ed.ac.uk

Fees and funding
For fees see page 26 and for funding information see page 28.

One Health

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 Edinburgh Marchig International Centre for Animal Welfare Education (within the R(D)SVS) and Scotland’s Rural College (SRUC) with a series of guest lectures from around the world. This programme is affiliated with the University’s Global Health Academy (see page 25).

Programme structure
The programme is modular, allowing you to follow a flexible, student-centred approach to the choice of courses studied. You may choose to study postgraduate certificate, postgraduate diploma or MSc level.

YEAR 1: CERTIFICATE COURSES PREVIOUSLY OFFERED INCLUDE:
You will study International Animal Welfare Science and Animal Ethics, Policy and Law plus an option course.

YEAR 2: DIPLOMA COURSES PREVIOUSLY OFFERED INCLUDE:
You can choose from a range of option courses, which include: Production Animal Welfare; Captive and Free-ranging Wild Animal Welfare; Animals in Research, Testing and Education. You can also choose options from other programmes, including Clinical Animal Behaviour; Equine Behaviour and Welfare; Equitation Science and (new for 2017) Anthrozoology.

YEAR 3: MASTERS
You complete a dissertation of 10,000-15,000 words, which can be a research project or an 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, government 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.

English language requirements
See page 26.

Fees and funding
For fees see page 26 and for funding information see page 28.

Programme Manager
Fritha Langford
Email law@ed.ac.uk

Programme description
One Health is an interdisciplinary approach to the study of the complex interactions between human, animal and environmental health challenges faced in the 21st century. This programme provides the skills needed for a successful career in this emerging field. One Health is part of the University's Global Health Academy (see page 25) and shares option courses with other programmes across the Academy (www.ed.ac.uk/global-health).

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

YEAR 1: CERTIFICATE COURSES PREVIOUSLY OFFERED INCLUDE:
Introduction to One Health; Applied Epidemiology, Surveillance and Outbreak Control; One Health Policy and Practice.

YEAR 2: 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; Extreme and Fragile Ecosystems; 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.

YEAR 3: 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 successful candidate for this programme will enhance your career prospects in academia, research, government departments, non-governmental organisations, international development and the private sector. Despite being a relatively new field, One Health is rapidly gaining global recognition and current students have already reported improvements in career development through 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 26.

Fees and funding
For fees see page 26 and for funding information see page 28.

Programme Director
Mike Thursfield
Email onehealth@ed.ac.uk
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 NVQ foundation skills – one year of study.
- B core skills module – one year of study.
- C advanced skills module (4+2) – two years of study per module allowing time to gather cases etc.
- Synoptic assessment to achieve a designated certificate as required.

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

Career opportunities

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

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.

Year 1 compulsory courses proposed:

Basic Sciences in Anaesthesia and Analgesia; Anaesthetic Equipment; and 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, camels and pigs; or small mammals.

Year 2 courses proposed:

Choose 60 credits of options: Emergency Case Management; Chronic Pain and Advanced Analgesic Principles; Advanced Cardiovascular Procedures and Monitoring; Lung Ventilation and Mechanical Ventilators; Reproductive and Birds; Ethics in Veterinary Anaesthesia; Animal Welfare and Euthanasia.

In addition, you may select additional species courses from Year 1.

Year 3

You will demonstrate scientific skills and theory in a dissertation of 10,15,000 words. This may take the form of 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 that 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/internationalgraduate-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.

English language requirements

See page 26.

Fees and funding

For fees see page 26 and for funding information see page 28.

RCVS Certificate in Advanced Veterinary Practice

Programme description

Anesthesia 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

Each year will consist of three 11-week terms, comprising two blocks of five weeks study, with a week between for independent study and reflection.

YEAR 1

COMPULSORY COURSES PROPOSED:

Basic Sciences in Anaesthesia and Analgesia; Anaesthetic Equipment; and 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, camels and pigs; or small mammals.

YEAR 2 COURSES PROPOSED:

Choose 60 credits of options: Emergency Case Management; Chronic Pain and Advanced Analgesic Principles; Advanced Cardiovascular Procedures and Monitoring; Lung Ventilation and Mechanical Ventilators; Reproductive and Birds; Ethics in Veterinary Anaesthesia; Animal Welfare and Euthanasia.

In addition, you may select additional species courses from Year 1.

YEAR 3

You will demonstrate scientific skills and theory in a dissertation of 10,15,000 words. This may take the form of 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 that 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/internationalgraduate-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.

English language requirements

See page 26.

Fees and funding

For fees see page 26 and for funding information see page 28.

Veterinary Anaesthesia & Analgesia

Programme contact

Elizabeth Wright

Tel: +44 (0)131 650 6272

Email e.wright@ed.ac.uk

Veterinary Practice (enrolment valid for 10 years).

See also…

You may also be interested in online distance learning 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
On-campus taught masters and masters by research programmes

Our on-campus programmes are designed to develop knowledge or techniques in specified 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 R(D)SVS 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.

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 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;

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 26.

Fees and funding

For fees see page 26 and for funding information see page 28.

Programme Director

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

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 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;

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 26.

Fees and funding

For fees see page 26 and for funding information see page 28.

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 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 26.

Fees and funding

For fees see page 26 and for funding information see page 28.

Programme Director

Tamzin Coombs
Email animal.behaviour@ed.ac.uk

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; and
- 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 (BVMS/ MVS Veterinary Medicine or equivalent).

English language requirements

See page 26.

Fees and funding

For fees see page 26 and for funding information see page 28.

Programme Director

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

www.ed.ac.uk/pg/238

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 Sciences**
Research in the Division of Clinical 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, 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.

**Division of Neurobiology**
Research in the Division of Neurobiology conducts research in the fields of neurobiology and neuropathology. Research focuses on understanding the mechanisms that regulate normal brain function as well as the causes and consequences of dysfunction during ageing and in acute or chronic neurodegenerative disease.

**Veterinary Medical Education Division**
The Veterinary Medical Education Division is the organisational hub for an extensive community of veterinary 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.

**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.

An MSc by Research degree gives you an excellent grounding in research, and can serve as a stepping-stone to a PhD. An MSc by Research is a research training and a research project. The programme takes one year to complete and is examined by thesis.

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

The following list of research areas offered by the 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.

BBSC 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 (aging); bioenergy and industrial biotechnology; food security; and world-class bioscience.

We offer an excellent programme of collaborative training for PhD students in Aberdeen, Dundee, Edinburgh and St Andrews, at four of the UK’s leading research intensive universities.

For more information see: www.eastscotbiodtp.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.

The higher DVMA&S degree has additional requirements. Please view the programme entry online for full details.

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 advisor, genetist and virologist or commenced careers in academia.

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; cafés and an auditorium where we regularly host workshops and invited speakers.

English language requirements

For fees see page 26 and for funding information see page 28.

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 26.

Fees and funding

For fees see page 26 and for funding information see page 28.

Contact Postgraduate Secretary
Email vetpgresearch@ed.ac.uk

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 toolskits enable genetiic research in these species.

English language requirements

See page 26.

Fees and funding

For fees see page 26 and for funding information see page 28.

Contact Postgraduate Secretary
Email vetpgresearch@ed.ac.uk
Infection & Immunity

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 26.

Fees and funding
For fees see page 26 and for funding information see page 28.

Contact Postgraduate Secretary
Email vetpgresearch@ed.ac.uk

Neurobiology

Research profile
The neurobiology division conducts research in the fields of neurobiology and neuropathology. Our researchers investigate mechanisms that regulate normal brain function as well as the causes and consequences of dysfunction during ageing and in acute or chronic neurodegenerative disease. Our programme of research uses a wide spectrum of approaches, from the molecular to the whole animal. We address how multiple systems in the periphery and multiple cell types in the central nervous system impact on the function and dysfunction of the brain. Some of our current research focuses on:

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

English language requirements
See page 26.

Fees and funding
For fees see page 26 and for funding information see page 28.

Contact Postgraduate Secretary
Email vetpgresearch@ed.ac.uk

Veterinary Advanced Clinical Training Programme

Research profile
The R(D)SVS Clinical Training Programmes provide an opportunity for qualified veterinary surgeons to undertake a period of advanced clinical training in a variety of disciplines under the guidance and supervision of the Royal College of Veterinary Surgeons and European and American veterinary specialists. Our Senior Clinical Training Programmes (residencies) are designed to train research-literate clinicians with specialist knowledge and expertise in their chosen field thereby giving them the opportunity to pursue career goals in teaching, research, clinical service and/or specialist practice. The majority of our programmes are approved by the relevant UK and European colleges. We also offer Junior Clinical Training Programmes (internships) in a number of areas within the Hospital for Small Animals. These scholarships are suitable for recently qualified vets who are considering applying for a residency.

English language requirements
See page 26.

Fees and funding
For fees see page 26 and for funding information see page 28.

Contact Veterinary Clinical Scholars Secretary
Email VetClinicalScholars@ed.ac.uk

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.

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

Dolly subsequently became a global scientific icon, and SCNT technology created by the University’s researchers has spread around the world.
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 11th in the world for Veterinary Science in the QS World University Rankings 2016 and in the most recent Research Excellence Framework (REF) 2014 were ranked first in the UK for Veterinary Research.

Postgraduate Experience

Located at the Easter Bush Campus (see page 30), 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 School of Biological Sciences 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 2009 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 to use this knowledge for prevention and treatment of important veterinary diseases as well as to develop 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

The Jeanne Marchig Centre for International Animal Welfare Education is located within the R(D)SVS. This 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.

Breadth and diversity

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

- Developmental biology
- Infection and immunity
- Genetics and genomics
- Neurobiology
- 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 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.
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 distance-learning postgraduates are a diverse group of students from all over the world united by their academic interests. Using our award-winning interactive learning environments, our online students and tutors maintain a supportive virtual community that ensures successful online study. If you can’t attend your graduation ceremony in person you can even have a virtual graduation at the same time.

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, International Office, Edinburgh University Students’ Association (EUSA), the independent Advice Place and the Student Counselling Service.

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

Each year, we support the training of more than 150 research students and around 320 students undertaking taught programmes on campus or online.

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.roslin.ed.ac.uk

Facilities

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

Our 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 distance 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 studies 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 one-to-one study consultations, plus online advice and learning materials. Workshops and learning resources cover key topics tailored to different academic stages, including getting started with your studies; critical reading, writing and thinking; managing your exams; and planning for and writing up your dissertation.

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

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

Careers Service

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

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

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

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

Connect.ed

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

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

Back CS 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.uk

Eurolife postgraduate student exchange visits

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

The eight Eurolife universities are:

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

*This institution does not offer 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, mmresresearch@ed.ac.uk, at least seven months in advance of a proposed visit start date, to discuss submitting an application.

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

Global Health Academy

The University’s Global Health Academy draws on a wide range of expertise, crossing all boundaries in global health. Because global health is not one single discipline, but multiple disciplines cutting across traditional institutional functions and boundaries, the University has brought together world-class research drawn from numerous academic areas in order to deliver a greater impact. For example, public health and clinical physicians work closely with our leading anthropologists, biomedical scientists, epidemiologists, geographers, health economists, management specialists, mathematicians, political scientists and sociologists. The umbrella of the Global Health Academy also extends outwards to specialists across the globe who wish to lend their expertise to our training, teaching or research for shorter or longer periods.

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

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

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

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

Research programmes
For many research programmes, you can start at any time of year – check with the 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.

Veterinary Advanced Clinical Training Programme
• 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).

RCVS Certificate in Advanced Veterinary Practice (online distance learning)
Candidates who are European graduates do not have to take an IELTS test to join the RCVS. For those graduating outside Europe, the RCVS expects 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.

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 two years old at the beginning of your programme. We also accept recent degree-level study that was taught and assessed in English in a majority English speaking country (as defined by UK Visas & Immigration).

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

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

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

<table>
<thead>
<tr>
<th>Programme Type</th>
<th>Annual Fee</th>
</tr>
</thead>
<tbody>
<tr>
<td>All taught programmes 1-year FT</td>
<td>£15,800*</td>
</tr>
<tr>
<td>All taught programmes 2-years FT</td>
<td>£30,600*</td>
</tr>
<tr>
<td>MSc by Research (M VetSci) by Research FT</td>
<td>£7,000*</td>
</tr>
<tr>
<td>MSc by Research PT</td>
<td>£3,500*</td>
</tr>
<tr>
<td>Online Distance Learning</td>
<td>£4,650*</td>
</tr>
</tbody>
</table>

* Figure shown is the 2016/17 fee level.

For UK/EU students

For international students

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

The University of Edinburgh
Veterinary Studies Postgraduate Opportunities 2017
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.

Scholarships at the University of Edinburgh

- Beit Trust
  - Beit Trust and the University of Edinburgh Scholarships jointly fund postgraduate students from Malawi, Zambia and Zimbabwe to undertake a masters: www.beittrust.org.uk
- College of Medicine & Veterinary Medicine Funded PhDs
  - The College offers a number of funded PhD programmes every year, including:
    - Welcome Trust 4-year PhD in Translational Neuroscience
    - Wellcome Trust 4-year PhD in Tissue Repair
    - MRC Centre for Reproductive Health PhD Scholarship
    - MRC Centre for Inflammation Research PhD Scholarship
    - Medical Research Council (MRC) DTPh in Precision Medicine
    - The EPSRC and MRC Centre for Doctoral Training in Optical Medical Imaging (OPTIMA)
    - BBRC EASTBIO Doctoral Training Partnership (DTPh)
  - For further information on funded PhDs see: http://edin.ac/mvm-funded-phds

- 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

Research council awards

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

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

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

- Chile
- Colombia
  - Administrative Department of Science, Technology and Innovation (Colciencias): www.colciencias.gov.co
- Ecuador
  - Secretaria Nacional de Educacion Superior, Ciencia y Tecnologia (SENESCYT): www.educactionsuperior.gob.ec
- Iraq
  - Ministry of Higher Education and Scientific Research: www.iraqculturalattach.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.funedmx.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+
  - An Erasmus+ loan supports students accepted for a masters programme in an Erasmus+ country. For more information: http://ec.europa.eu/education/opportunities/higher-education/masterloans_en.htm
- Postgraduate Loans (PGL)
  - The University is eligible to certify postgraduate Loans (PGL) in the UK for at least two years: www.marshallscholarship.org
- Postgraduate Loans (SAAS)
  - The Student Awards Agency Scotland offers tuition fee loans to eligible students undertaking full- or part-time postgraduate study. For a full list of eligible programmes: www.saas.gov.uk
- US Student Loans
  - The University is eligible to certify loan applications for US loan students. Full details on eligibility and how to apply can be found online: www.ed.ac.uk/student-funding/us-loans

Other sources of funding

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

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

Funding for online distance learning

The University offers several scholarships specifically for online, part-time postgraduate programmes, including the Edinburgh Global Online Distance Learning Masters Scholarship, for which applicants to many of our masters programmes can apply: www.ed.ac.uk/student-funding/elearning/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
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 Riddell-Swan Building
- 02 Clinical Research Imaging Centre
- 03 Hospital for Small Animals
- 04 The Royal (Dick) School of Veterinary Studies
- 05 Campus Facility Management Centre
- 06 Roslin Institute Building
- 07 Equine Treadmill
- 08 Sir Alexander Robertson Building
- 09 EBRC Laboratory Arm
- 10 Easter Bush Veterinary Centre
- 11 The View
- 12 Stable Block
- 13 Equine Hospital
- 14 Farm Animal Teaching Unit
- 15 Scintigraphy and Exotics (Large Animal Teaching Unit)

**(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

**Western General**

- 01 Biomedical Research Facility
- 02 CJD Surveillance Unit
- 03 Welcome 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**

Detailed maps can be found at: [www.ed.ac.uk/maps](http://www.ed.ac.uk/maps)
Get in touch

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

Explore postgraduate life through our films, 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 Wednesday 16 November 2016. For more information, visit:
www.ed.ac.uk/postgraduate-open-day

The University also runs online information sessions for prospective postgraduate students throughout the year. For more information, visit: www.ed.ac.uk/postgraduate/online-events

“...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)
This publication is available online at [www.ed.ac.uk/postgraduate](http://www.ed.ac.uk/postgraduate) and can be made available in alternative formats on request. Please contact communications.office@ed.ac.uk or call +44 (0)131 650 2252.

Illustration by:
Katy Wiedemann, MA Illustration student

The front cover shows an example of a travelling syringe case used by veterinarians on call in the early 20th century. It is part of the Royal Dick Veterinary College Archive at our Centre for Research Collections.

#drawntoedinburgh