



THE UNIVERSITY
of EDINBURGH

Postgraduate Opportunities

2021

Veterinary & Agricultural Sciences

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

Open to
the world



THE UNIVERSITY
of EDINBURGH

Top 50[†]

We're consistently ranked one of the top 50 universities in the world. We're 20th in the 2021 QS World University Rankings.

19TH

We're ranked 19th in the world's most international universities‡. Since 2010, we have taught students from 160 countries.

4TH

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

Top 100

We're ranked in the top 10 in the UK and in the top 100 in the world for the employability of our graduates.§

7TH

Edinburgh is ranked the seventh best student city in Europe and 15th in the world.*

19

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

Online leader

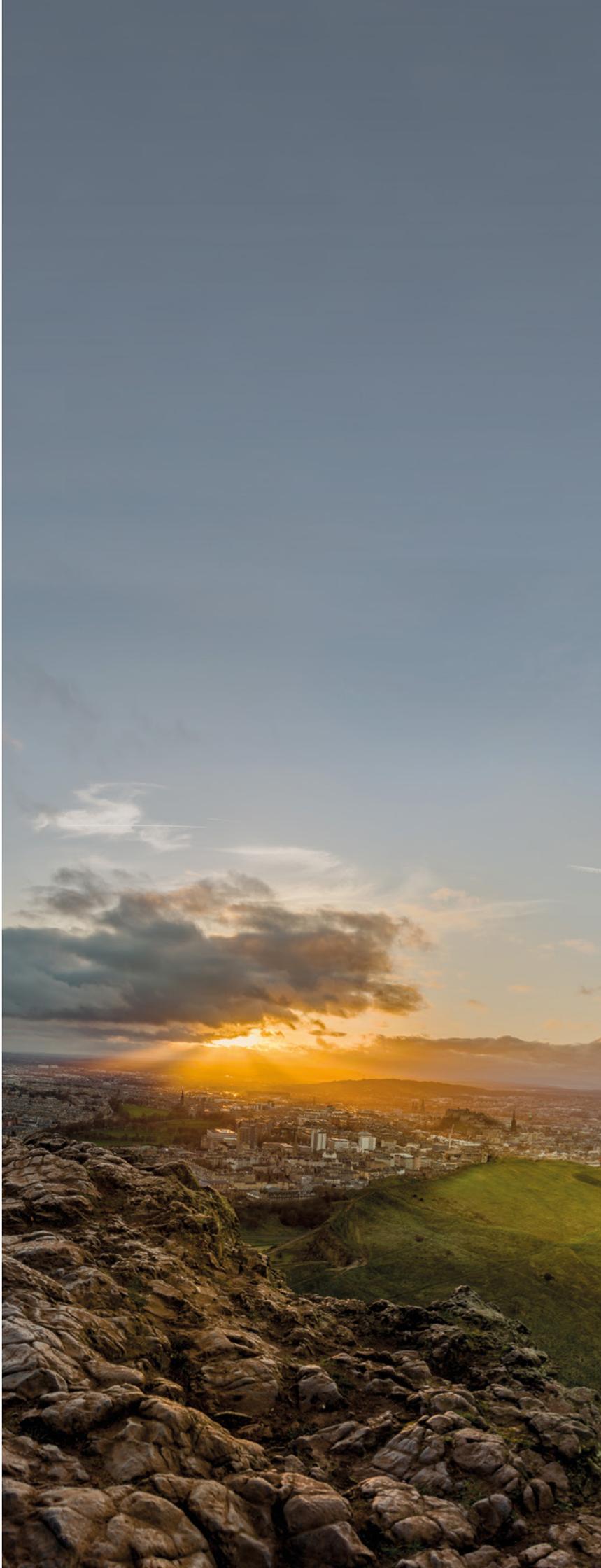
Edinburgh is one of the largest providers of online postgraduate programmes in the UK.

‡ *Times Higher Education*, The World's Most International Universities 2020

† *Times Higher Education*, Overall Ranking of Institutions

§ *Times Higher Education*, Global Employability University Ranking 2019

* QS Best Student Cities 2019



Open to the world

We're open to the world today so we can influence the world tomorrow. The University brings people with new ideas and perspectives together in a spirit of interdisciplinary innovation and collaboration. This has already shaped the world in so many ways, from the great thinkers of the Scottish Enlightenment, to the discovery of the Higgs boson particle and the development of a genetically engineered vaccine for Hepatitis B. Our 21 Schools, across three academic Colleges, embody our approach.





About the Royal (Dick) School of Veterinary Studies

The Royal (Dick) School of Veterinary Studies, founded in 1823, is a one-of-a-kind centre of excellence in clinical activity, teaching and research.

Our purpose-built campus, set against the backdrop of the beautiful Pentland Hills Regional Park, is home to more than 800 staff. We have more than 800 students on campus, as well as more than 700 students online, all of whom contribute to our exceptional community ethos.

We were ranked 6th in the world for Veterinary Science in the QS World University Rankings by subject 2020 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).

Breadth and scope

The School comprises:

- The Roslin Institute
- The Global Academy of Agriculture and Food Security
- The Roslin Innovation Centre
- The Hospital for Small Animals
- Equine Veterinary Services
- Farm Animal Services
- Easter Bush Pathology
- The Jeanne Marchig International Centre for Animal Welfare Education

We represent the largest concentration of animal science-related expertise in Europe, impacting local, regional, national and international communities in terms of economic growth, the provision of clinical services and the advancement of scientific knowledge.

Collaboration and interdisciplinarity

As part of the University of Edinburgh College of Medicine & Veterinary Medicine, we interact closely with colleagues in Edinburgh Medical School, as well as with the Schools of Biological Sciences and Geosciences in the College of Science & Engineering. This provides our postgraduate students with access to a vast array of expertise and technologies in addition to opportunities for interdisciplinary research and collaboration.

We also share laboratory space at Easter Bush with Scotland's Rural College (SRUC), providing excellent additional opportunities for collaboration across land-based industries and the farming sector.

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 School, 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 a team of scientists at the Roslin Institute, led by Professor Sir Ian Wilmut.

By joining us for your postgraduate studies, you will become part of a global network of researchers, practitioners, students and alumni who continue the School's tradition of pushing animal science to new frontiers.

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.



Our 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 DVetMed 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 studies.

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

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 the 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 MSc administrators are the first point of contact for all taught postgraduate students and staff. The administrators work as a team with staff supporting online learning and on-campus study. 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 to provide any 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 DVetMed 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.

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, the 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. It offers on-campus and online workshops and one-to-one study skills consultations, as well as online advice and learning resources in the Study Hub (www.ed.ac.uk/iad/studyhub). The programme and learning resources cover key study skills tailored to different academic stages, including prearrival 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 programme consists of workshops that are designed to help you successfully prepare for the various milestones of your PhD, from getting started with your research, to writing up and preparing for the viva, as well as developing personal and professional skills that can be transferred to your future employment. Workshops cover topics such as writing skills, reference management tools, statistics, preparing for conferences, delivering presentations, time and project management, and personal development. IAD also offers online resources and planning tools to help get your research started, as well as support for tutoring and demonstrating, and public engagement and communication.

Careers Service

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

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

We provide opportunities for students to draw on the knowledge and experience of our worldwide alumni network through lectures, workshops and panel discussions, and online via Platform One. This supportive environment allows students, alumni, staff and volunteers to gather to share their knowledge and experiences and discuss ideas, plans and possibilities.

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

Open to new ideas

If you consider yourself something of an entrepreneur, you'll be interested to know that Edinburgh is an entrepreneurial city, home to two of the UK's \$1 billion-valued unicorn companies. We boast one of the most entrepreneurial student bodies in the UK and have helped students launch nearly 100 startups in the last two years. One in five of those startups was a social enterprise. Edinburgh Innovations, the University's commercialisation service, offers free support to student entrepreneurs including one-to-one business advice and a range of workshops, bootcamps, competitions and networking events. Successful recent clients include Orfeas Boteas, creator of the Dehumaniser sound effects software used by Hollywood movies and blockbuster video games; Douglas Martin, whose company MiAlgae aims to revolutionise the global aquaculture and pet food industries; and Aayush Goyal and Karis Gill, whose gift box enterprise Social Stories Club brings ethical products to a wider market:
www.ed.ac.uk/edinburgh-innovations/for-students

Open to the world

The University of Edinburgh has been influencing the world since 1583. Our Schools have a long history of making a difference but it isn't one we take for granted. To this day, we strive to deliver excellence and help address tomorrow's greatest challenges.

Here's a snapshot of what your School's community has been up to recently.

Riding away from extinction

The Przewalski's horse roamed the Central Asian steppes and was never successfully domesticated. In 1969 it was declared extinct in the wild, with only a few hundred remaining in captivity – all descended from just 12 wild-caught animals.

Since then, conservation has increased the population to around 1,900 animals living in captivity or wild at reintroduction sites. Animal health studies and veterinary care have been vital to successfully bring the species back from the edge of extinction.

Dr Ellie Milnes, a 2020 graduate of our MVetSci Conservation Medicine degree, works at Toronto Zoo optimising anaesthesia protocols to improve horse health and human safety.

“Equids can be tricky to anaesthetize by dart. The ultrapotent opioids we have traditionally relied upon (etorphine) can cause severe respiratory depression with muscle rigidity and are potentially fatal to humans if accidentally exposed.

“We investigated an alternative dart protocol to improve both horse and human safety and found a non-ultrapotent opioid combination is just as effective and produces less respiratory depression and greater muscle relaxation. Next steps will involve further research to improve field anaesthetic monitoring for Przewalski's horse.

“I am passionate about improving anaesthetic safety for wildlife in human care. It's a privilege to care for endangered equid species and I hope my research will help zoo veterinarians make more informed decisions about immobilisation procedures.”

Dr Milnes' research is one of several Przewalski's horse studies, devoted to the long-term survival of the species, funded by Morris Animal Foundation and the American Association of Zoo Veterinarians Wild Animal Health Fund.



Researchers join prestigious leadership scheme

Three academics from the School have taken part in a new programme for emerging leaders in the field of medical sciences.

Edinburgh is the only university to have three participants in the first cohort of the programme, which is run by the Academy of Medical Sciences.

Professor of Comparative Medicine Richard Mellanby, Professor of Translational Obstetrics Fiona Denison, and Senior Lecturer in Biomedical Imaging Dr Marc Vendrell were selected for the two-year course, called Future Leaders in Innovation, Enterprise and Research (FLIER).

The scheme aims to equip future leaders with skills to help solve key health challenges and enable them to seize opportunities afforded by new discoveries in science, technology, and medicine.

The scheme brings together emerging leaders from academia, the NHS, industry, and policy organisations for an immersive learning experience.

"The FLIER programme has been a fantastic opportunity for me to develop leadership expertise and knowledge as part of diverse and interesting cohort. The highly varied programme and exposure to leaders from a wide range of biomedical sectors has been highly insightful. The programme has undoubtedly had an incredibly positive impact on my professional outlook and skills."

Professor Richard Mellanby
Personal Chair of Comparative Medicine



Record-setting vet wins prestigious awards

A senior clinician from the School won two prestigious awards after becoming the first woman to win one of the world's toughest endurance races.

Jasmin Paris was named 2019 Barclays Woman of the Year, and received the Helen Rollason Award for Inspiration at the 2019 *Sunday Times* Sportswomen of the Year awards. She won the 268-mile Montane Spine Race ultramarathon in a time of 83 hours, 12 minutes, and 23 seconds, smashing the course record by a whopping 12 hours.

The Montane Spine Race takes place along the Pennine Way National Trail, beginning in Edale in Derbyshire and finishing in Kirk Yetholm in the Scottish Borders.

Already an established endurance athlete, Jasmin won the British women's fell running championships in 2018 and holds records in several other ultrarunning challenges.

Underlining how remarkable her performance in the Montane Spine Race was, Jasmin undertook the race against the backdrop of writing her PhD thesis and expressed milk for her 14-month-old daughter at aid stations along the route.

Her achievements have made her a role model for young people, something she clearly relishes: **"The thought of inspiring the next generation is hugely inspiring for me. Of all the media coverage that my race win received, the thing I was probably most excited about was being on the cover of the Junior Week magazine. Being used as a role model to inspire the next generation surely must be the ultimate accolade."**

Professor Richard Mellanby, Personal Chair of Comparative Medicine added: **"Jasmin has undoubtedly delivered one of the greatest ultra-running performances of all time and I am delighted to see that she is receiving such widespread public recognition for her success and dedication to the sport. She is a wonderful role model to young athletes, scientists and clinicians across the world."**



Open to brighter futures

Students worldwide are using the School's online masters degrees to achieve their career goals from the comfort of their own homes.

Kirsten Ruffoni, from Italy, recently returned to complete Year 2 of an MSc Equine Science degree. Having started the degree five years ago, Kirsten left early with a Postgraduate Certificate to begin a career in IT but says working with horses was always her dream.

“Fast forward five years and here I am back in Italy with a decent leadership position at a software company. There was always something missing but I definitely couldn't complain how my life turned out. That missing something is why I decided I would take up my studies again and impulsively reapplied. Being able to study online is an amazing opportunity.”

Monjurul Karim, is a married first year MSc One Health student with a young son. He's the first online learning student from Bangladesh to study One Health with us and received funding from the Commonwealth Scholarship Commission. Monjurul believes the possibilities online learning offers to students in his circumstances are life changing.

“Being a developing and populated country we [in Bangladesh] had a great demand for quality education but many of the universities are located in the capital Dhaka, a megacity of around 20 million people. It is an expensive city to live in for students. Online programmes can be a wonderful addition. Working and studying at the same time is a great opportunity for me and will be an advantage for many people.”

Kirsten and Monjurul both share their experiences through University blogs. Follow them and find out more online: <https://blogs.ed.ac.uk/studentstories/>

Animal and human health research facility opens

A newly opened world-leading research facility will provide unprecedented insights into livestock and human health.

The University's Large Animal Research and Imaging Facility (LARIF) will enhance food security and the health and welfare of farmed animals, through research aimed at producing livestock that are genetically more resistant to disease and by the development of improved vaccines.

Research will additionally safeguard human health by helping to tackle food-borne infections and developing strategies against antimicrobial resistance.



The LARIF – situated close to the Roslin Institute at the School's Easter Bush campus – houses an unparalleled combination of imaging, surgical, gene editing and infection containment facilities. It offers exceptional specialist capability for in-depth studies into the health and wellbeing of all major farmed livestock.

Also housed at the LARIF is the Wellcome Trust-funded Critical Care Laboratory for Large Animals, which supports the study of large animal biology with all the resources of a human hospital. Highly skilled specialists in veterinary anaesthesia will provide round-the-clock care for animals involved in studies.

Advanced medical imaging equipment on site, including CT, MRI, fluoroscopy and ultrasound, enables detailed understanding of anatomy and body composition in livestock, as well as monitoring progression of disease processes in different organs, and their response to treatment.

Studies at the LARIF will also investigate human conditions. Large animal species are valuable biomedical models for studying human diseases and developing new medical technologies.

"The LARIF is a unique and world-leading facility that significantly enhances our ability to study human and animal health. Taking this multidisciplinary approach is a key focus for the University and can lead to significant advances in medicine, veterinary medicine and agricultural science."

Professor David Argyle
Head of the Royal (Dick) School of Veterinary Studies



Protecting the world's most trafficked animal

A team from the School, working with Save Vietnam's Wildlife, has played a vital role safeguarding the welfare of pangolins – the world's most trafficked mammal.

RCVS advanced practitioner in zoological medicine Heather Bacon, and vet nurse Jess Davies, travelled to Cuc Phuong National Park in Vietnam to share knowledge of endangered carnivore veterinary care and management. The visit saw wild pregnant pangolins examined in a rescue centre using ultrasound – the first time this has happened, it is believed.

Heather delivered training in anaesthesia, diagnostic imaging, and surgical techniques, and learned from the Vietnamese team about the health and husbandry of captive pangolins, and other small carnivores. The Edinburgh team took an ultrasound machine, an IV fluid pump, and a refractometer – equipment essential in supporting the safeguarding of pangolin health and welfare.

Dr Bacon said: "This was an exciting opportunity for all of us. Save Vietnam's Wildlife team is incredibly experienced at pangolin care, and it was a real privilege to participate in their work on this critically endangered species.

"In return, we were delighted to deliver the donated ultrasound machine, and support their work by delivering training and detecting pregnancy in a female pangolin, which will enable the team to better manage these vulnerable animals. It was a great collaborative exchange of knowledge and experiences."



Our teaching

We offer an extensive range of taught postgraduate degrees, which are delivered either on-campus here in Edinburgh or via online learning.

Online learning

We have been offering innovative postgraduate degrees online to veterinary and related professionals since 2005. Many of our online master of veterinary science (MVetSci) and master of science (MSc) degrees are also available as a postgraduate diploma (PgDip) or certificate (PgCert), or as postgraduate professional development (see below).

We treat the delivery of teaching online as seriously as on campus and your degree will have an experienced director, coordinator and administrator to fully support all aspects of your student experience. Online learning is particularly suited to students already in employment or with other professional or personal commitments, and allows a flexible learning environment that can be adapted to your individual needs.

Postgraduate professional development (PPD or PgProfDev)

This way of learning is aimed at working professionals who want to advance their knowledge through postgraduate-level study, without the time or financial commitment of a full MSc or postgraduate diploma or certificate. Individual courses on all our online degrees may be taken as credit-bearing PPD. These credits will be recognised in their own right, or may be accumulated towards a higher award.

On-campus degrees

Our on-campus degrees are designed to develop knowledge or techniques in specialised subjects that are studied more generally at undergraduate level. They are internationally recognised as providing a world-class research-led teaching and training experience. Your tutors will include active international experts in their field and many guest lecturers each year who teach and interact with our students. You will be part of a thriving postgraduate community and can participate in a wide variety of academic and non-academic extra-curricular activities to enhance your student experience.

At the time of printing, our planned taught degrees for 2021 are:

Online learning

- **Advanced Clinical Practice** (MVetSci/PgDip/PgCert/PgProfDev)
- **Applied Conservation Genetics with Wildlife Forensics** (MSc/PgDip/PgCert/PgProfDev)
- **Applied Poultry Science** (MSc/PgDip/PgCert/PgProfDev)
- **Clinical Animal Behaviour** (MSc/PgDip/PgCert/PgProfDev)
- **Conservation Medicine** (MVetSci/PgDip/PgCert/PgProfDev)
- **Equine Science** (MSc/PgDip/PgCert/PgProfDev)
- **Food Safety** (MSc/PgDip/PgCert/PgProfDev)
- **Global Food Security & Nutrition** (MSc/PgDip/PgCert/PgProfDev)
- **International Animal Welfare, Ethics & Law** (MSc/PgDip/PgCert/PgProfDev)
- **One Health** (MSc/PgDip/PgCert/PgProfDev)
- **Veterinary Anaesthesia & Analgesia** (MSc/PgDip/PgCert/PgProfDev)
- **RCVS Certificate in Advanced Veterinary Practice** (PgProfDev)

On-campus degrees

- **Animal Biosciences** (MSc)
- **Applied Animal Behaviour & Animal Welfare** (MSc)
- **Professional Doctorate of Veterinary Medicine** (DVetMed)

Please check our online degree finder for the most up-to-date information available on our taught postgraduate opportunities and to make an application:

www.ed.ac.uk/postgraduate/degrees



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 features 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, including an imaging suite. 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.

Access during the pandemic

Your safety is our top priority and we have adapted our teaching and safety practices in light of Covid-19. Most of our postgraduate degrees are taught by online learning. On campus teaching will be provided via a hybrid model that blends digital and in-person delivery. There are no formal lectures for most PhD and masters by research students, whose degrees are based on their own original research. Support and wellbeing services will be available online until it is possible to offer in-person support. Libraries, study spaces and other facilities will be open in line with advice from the Scottish Government. Please visit our website for the latest information.



A world-class research experience

We're the UK's top-ranked veterinary school for research. Our Easter Bush campus is home to the world-renowned Royal (Dick) School of Veterinary Studies and the world-famous Roslin Institute.

The Easter Bush site was redeveloped in 2011 providing both the R(D)SVS and 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 our 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 Functional Genetics and Development

Research in this Division 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 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 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.

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

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 degrees 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 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 to informally discuss their proposed project before applying: vetpresearch@ed.ac.uk

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 four of the UK's leading research-intensive universities – Aberdeen, Dundee, Edinburgh and St Andrews.

For more information see: www.eastscotbiotp.ac.uk

At the time of printing, our planned postgraduate research opportunities for 2021 are:

- Agriculture & Food Security (PhD)
- Clinical Veterinary Sciences (PhD/MScR)
- Functional Genetics & Development (PhD/MScR)
- Genetics & Genomics (PhD/MScR)
- Infection & Immunity (PhD/MScR)

Please check our online degree finder for the most up-to-date information available on our postgraduate research opportunities and to make an application.

Research degree index:
www.ed.ac.uk/studying/postgraduate/degrees/research

PhD research projects:
www.ed.ac.uk/studying/phd-research-projects

Advice on finding a research supervisor:
www.ed.ac.uk/studying/postgraduate/research

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.



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.

The majority of our taught students are self-funded although there are some funding packages available for both on-campus and online learning students.

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

University of Edinburgh Alumni Scholarships

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

Key

- Taught masters degrees
- Masters by Research degrees
- Research degrees

Scholarships at the University of Edinburgh

• Edinburgh Global Online Learning Masters Scholarship ●

The University offers a number of awards, for postgraduate online programmes, which eligible students can apply for: www.ed.ac.uk/student-funding/e-learning/online-distance

• Principal's Career Development PhD Scholarships ●

These prestigious scholarships give access to any applicant from around the world to undertake discipline training and additional skills development. Students are encouraged to engage with entrepreneurial training, teaching, outreach and industrial engagement. Each award covers the tuition fee and full stipend: www.ed.ac.uk/student-funding/development

Research council awards

Research councils offer awards to eligible masters 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. Please check the eligibility criteria for each opportunity online: www.ed.ac.uk/student-funding/research-councils

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

• 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/doctoral-loan

• 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

• 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 eligible students a tuition fee loan for taught and research programmes, at certificate, diploma, and masters level, which will be paid directly to the University: www.studentfinancenir.co.uk

“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.”

- **Postgraduate Loans (SAAS)** ●●

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

- **Postgraduate Master's Finance Wales** ●●

Student Finance Wales offers eligible students postgraduate finance 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





Where we are

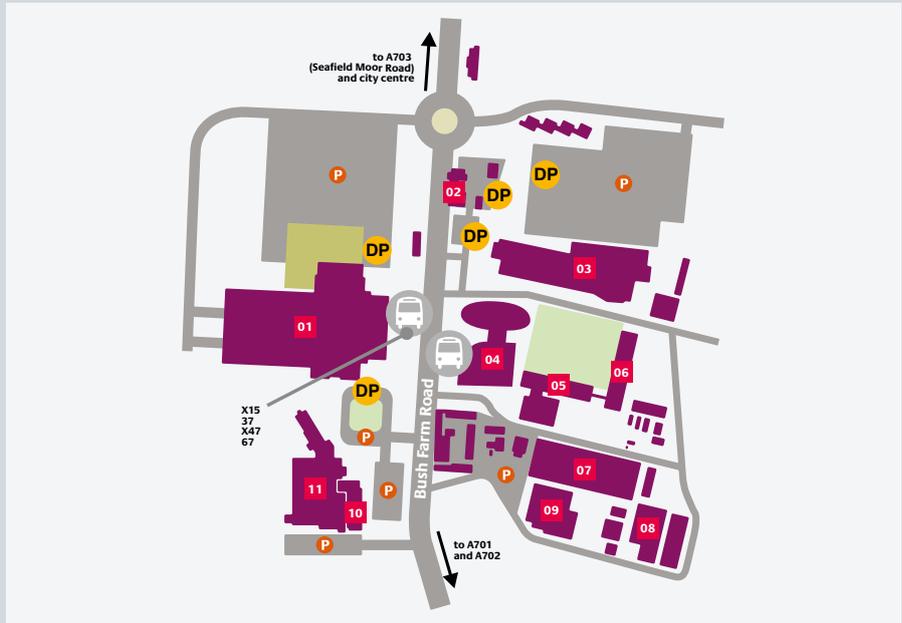
The College of Medicine & Veterinary Medicine is based in the city of Edinburgh at the sites shown below and in the Central Area. Many of our teaching and research facilities are located side by side with clinical practice.

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

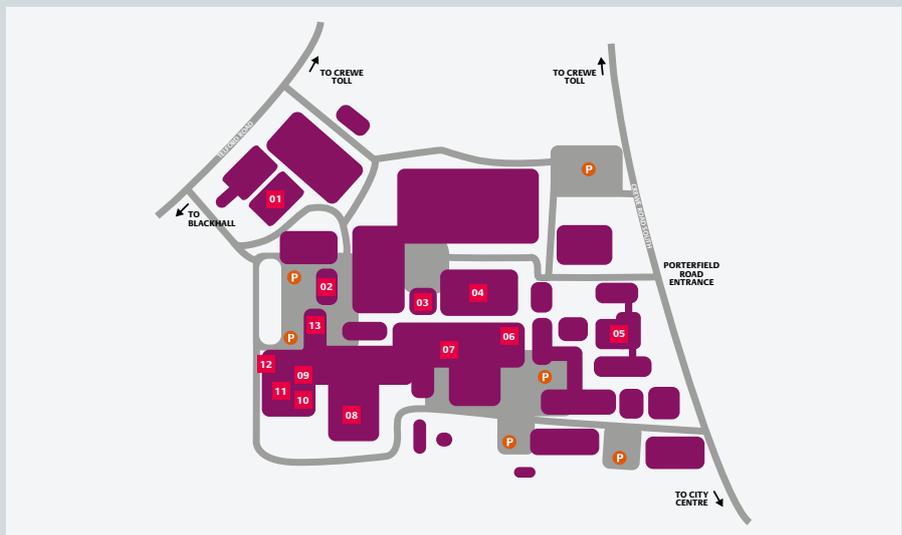
- Parking
- Disabled permit parking
- Public bus



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



Edinburgh Bioquarter

- 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



What's next?

Contact us

Tel +44 (0)131 242 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-life

Join in the conversation on Twitter.

 twitter.com/thedickvet

Visit us

We offer many opportunities for you to join us in Edinburgh and find out more about the University – including Online Information Sessions to access from the comfort of your own home and Open Days you can attend in person or online. Find out what event we're hosting next: www.ed.ac.uk/visit/open-days

Virtual Visit

Can't visit Edinburgh in person? Our Virtual Visit allows you to virtually explore the University and the city. View a range of videos, 360° photos and image galleries to find out what it is like to live and study here: www.virtual-visit.ed.ac.uk

Chat online

Wherever you are in the world, we offer you opportunities to get in touch and speak directly to us about studying here.

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

Our visits to you

If you are unable to visit the University, we attend events worldwide whenever possible during the year. Find out about your next opportunity to speak to us in person: www.ed.ac.uk/postgraduate/meet-us



We know these are uncertain times but at the University of Edinburgh your safety is our priority. We hope to welcome you on campus and are committed to ensuring you're taught as safely as possible during the pandemic. To find out about the steps we're taking, in line with Scottish Government guidance, visit: www.ed.ac.uk/news/covid-19

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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

The UK formally left the European Union (EU) on 31st January 2020. UK and Scottish Governments have confirmed that most non-UK EU students commencing study in 2021/22 will no longer be treated as 'home' students in relation to fee status or access to funding. Final fee regulations are not yet available but are expected to clarify fee status for those with settled status and for Irish citizens (under the Common Travel Agreement). For the latest information for students and applicants from the EU, please visit our website: 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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Education 
SCOTLAND
Innovative. Individual. Inspirational.

Open to
the world

Veterinary & Agricultural Sciences

“The professors from different areas of expertise offer insight and help you analyse information so you can create an informed opinion. The content is pertinent to what is happening in the world today and assignments are varied and relevant. I have found the support from the University to be nothing short of excellent.”

David, MSc Global Food Security & Nutrition (Online Learning)