Biological Sciences

Postgraduate Opportunities 2018

Influencing the world since 1583
“Edinburgh isn’t so much a city, more a way of life … I doubt I’ll ever tire of exploring Edinburgh, on foot or in print.”

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

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

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

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

Enhancing your career
We are committed to embedding employability in your University experience and have 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 23rd in the 2018 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.*

32ND
We’re ranked 32nd in the world for the employability of our graduates.†

£268m
In 2015/16 we won £268 million in competitive research grants.

21
We’re associated with 21 Nobel Prize winners, including physicists Peter Higgs, Charles Barkla and Max Born, medical researcher Peter Doherty and biologist Sir Paul Nurse.

13TH
We’re ranked 13th in the world’s most international universities.‡ Students from two-thirds of the world’s countries study here.

* Research Excellence Framework (REF) 2014
† Latest Emerging Global Employability University Ranking
‡ Times Higher Education: The World’s Most International Universities 2017

Influencing the world since 1583
Taught masters programmes

Our taught masters programmes are designed to deepen knowledge in a subject that you will typically have studied at undergraduate level, although they can also form a new direction in your academic career.

MSc and Diploma
Our taught Master of Science (MSc) programmes last 12 months, consisting of two semesters of taught courses followed by an individual supervised research project. An alternative option is the Postgraduate Diploma (PgDip), which lasts nine months from September to May, consisting of the taught courses only.

Online learning
We are the biggest provider of online learning in the Russell Group. Just like our on-campus provision, all our online masters are delivered by dedicated academics, many of whom are leaders in their field. You can study part-time towards a Postgraduate Certificate (PgCert), Postgraduate Diploma, MSc or Postgraduate Professional Development (PgProDen), and the timescales are flexible – you can complete the MSc in two years or take up to six years. You can also take individual courses for Continuing Professional Development (CPD) purposes. Online learning is an extremely flexible option for students looking to balance further study with professional or family commitments.

See also...
You may also be interested in taught masters programmes offered elsewhere in the University, particularly the College of Medicine & Veterinary Medicine or the Schools of Chemistry, Informatics, or Engineering.

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

MSc 1 yr FT (2 yrs FT available for UK/EU students)
Pgdip 9 mths FT

Programme description
The revolution in genetic mapping technology and the advent of whole genome sequences have turned quantitative genetics into one of the fastest growing areas of biology.
Based on the internationally renowned Institute of Evolutionary Biology, this MSc draws from the wealth of expertise available there, as well as the teaching, research expertise and facilities of Scotland’s Rural College, the University’s Centre for Genomics and Experimental Medicine, the Medical Research Council’s Human Genetics Unit and the Roslin Institute (birthplace of Dolly the sheep).
Each year the syllabus is fine-tuned to suit current issues in evolutionary, plant, human and animal genetics. This programme forms part of the quantitative genetics and genome analysis suite of programmes (see page 8), which includes the specialist routes Human Complex Trait Genetics and Evolutionary Genetics.

Programme structure
This programme consists of two semesters of taught courses followed by a research project, leading to a dissertation. Courses are taught via lectures, tutorials, seminars and computer practicals. Assessment is by written examinations, in-course assignments and project work.

Compulsory courses previously offered include:
- Animal Genetic Improvement; Dissertation; Genetic Interpretation;
- Linkage and Association in Genome Analysis; Population and Quantitative Genetics; Quantitative Genetic Models; Research Proposal; Statistics and Data Analysis.

Option courses previously offered include:
- Bioinformatics; Evolutionary Quantitative Genetics; Functional Genomic Technologies; Genetics of Human Complex Traits; Molecular Evolution; Molecular Phylogenetics.

Career opportunities
You will develop the in-depth knowledge and specialised skills required to work to the forefront of knowledge to practical problems, in both the biomedical and animal science industries, and to undertake research in evolutionary genetics, population genetics and genome analysis.

Entry requirements
A UK 2:1 honours degree, or its international equivalent (www.ed.ac.uk) international (graduate-entry), in biological or biomedical sciences; medicine; agriculture or animal sciences, with evidence of quantitative skills. We will also consider your application if you have a background in mathematics, statistics or physics and can show evidence of an interest in genetics, or if you have less than the minimum qualification but can show sufficient additional relevant experience (e.g. several years working in the animal breeding sector).

English language requirements
See page 20.

Fees and funding
For fees see page 20 and for funding information see page 22.

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www.ed.ac.uk/pg/763

Biochemistry

MSc 1 yr FT
PgDip 9 mths FT

Programme description
This programme offers you an academically challenging and career-developing study of biological systems at the molecular and cellular level. Biochemistry is fundamental to most areas of the science: it has a major impact on modern medical research and is essential in the pharmaceutical, nutrition, forensic, bioengineering, agricultural and environmental industries. The programme is designed to produce highly skilled and motivated biochemists who are suitable for employment in the pharmaceutical, chemical and related industries.

Based on the internationally renowned Institute of Evolutionary Biology, this MSc draws from the wealth of expertise available there, as well as the teaching, research expertise and facilities of Scotland’s Rural College, the University’s Centre for Genomics and Experimental Medicine, the Medical Research Council’s Human Genetics Unit and the Roslin Institute (birthplace of Dolly the sheep).

Each year the syllabus is fine-tuned to suit current issues in evolutionary, plant, human and animal genetics. This programme forms part of the quantitative genetics and genome analysis suite of programmes (see page 8), which includes the specialist routes Human Complex Trait Genetics and Evolutionary Genetics.

Programme structure
This programme consists of two semesters of taught courses followed by a research project, leading to a dissertation. Courses are taught via lectures, tutorials, seminars and computer practicals. Assessment is by written examinations, in-course assignments and project work.

Compulsory courses previously offered include:
- Biochemistry A and B; Biophysical Chemistry; MSc Project & Dissertation; Practical Skills in Biochemistry A and B; Research Project Proposal.

Option courses previously offered include:
- Applicable Mathematics; Applications of Synthetic Biology; Bioinformatics; Biochemistry; Biomarkers/molecules; Commercial Aspects of Drug Discovery; Detailed Characterisation of Drug or Liquid Injections using SPR; Drug Discovery; Economics and Innovation in the Biotechnology Industry; Functional Genomic Technologies; Information Processing in Biological Cells; Molecular Modelling and Database Mining; Preparative Methods for Structural Biology; Programming for the Life Sciences; Protein Structure Determination; Quantitative Genetics; Drug Discovery; Tools for Synthetic Biology; Vaccines and Molecular Therapies.

Research
Students progressing to MSc level will carry out their own research project at the forefront of knowledge and can make a genuine contribution to the progress of original research. This also involves reviewing relevant papers, analysing data, writing a dissertation and giving a presentation.

Career opportunities
You will enhance your career prospects by acquiring knowledge of contemporary biochemistry from world experts in the field, by being trained in advanced analytical and presentation skills, and by having independent research experience in a modern, world-class laboratory.

Entry requirements
A UK 2:1 honours degree, or its international equivalent (www.ed.ac.uk) international (graduate-entry), in biological or environmental science. A background in biochemistry is desirable.

English language requirements
See page 20.

Fees and funding
For fees see page 20 and for funding information see page 22.

Programme Directors
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www.ed.ac.uk/pg/856

Biodiversity & Taxonomy of Plants

MSc 1 yr FT
PgDip 9 mths FT

Programme description
The understanding of plant diversity and resources has never been more important. As we face the urgency of climate change and environmental degradation, effective environmental surveillance and conservation depend upon detailed knowledge of plants and their habitats.

Based on the internationally renowned Institute of Evolutionary Biology, this MSc draws from the wealth of expertise available there, as well as the teaching, research expertise and facilities of Scotland’s Rural College, the University’s Centre for Genomics and Experimental Medicine, the Medical Research Council’s Human Genetics Unit and the Roslin Institute (birthplace of Dolly the sheep).

Each year the syllabus is fine-tuned to suit current issues in evolutionary, plant, human and animal genetics. This programme forms part of the quantitative genetics and genome analysis suite of programmes (see page 8), which includes the specialist routes Human Complex Trait Genetics and Evolutionary Genetics.

Programme structure
This programme is designed to produce highly skilled and motivated biochemists who are suitable for employment in the pharmaceutical, chemical and related industries.

Based on the internationally renowned Institute of Evolutionary Biology, this MSc draws from the wealth of expertise available there, as well as the teaching, research expertise and facilities of Scotland’s Rural College, the University’s Centre for Genomics and Experimental Medicine, the Medical Research Council’s Human Genetics Unit and the Roslin Institute (birthplace of Dolly the sheep).

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Programme structure
This programme consists of two semesters of taught courses followed by a research project, leading to a dissertation. Courses are taught via lectures, tutorials, seminars and computer practicals. Assessment is by written examinations, in-course assignments and project work.

Compulsory courses previously offered include:
- Biochemistry A and B; Biophysical Chemistry; MSc Project & Dissertation; Practical Skills in Biochemistry A and B; Research Project Proposal.

Option courses previously offered include:
- Applicable Mathematics; Applications of Synthetic Biology; Bioinformatics; Biochemistry; Biomarkers/molecules; Commercial Aspects of Drug Discovery; Detailed Characterisation of Drug or Liquid Injections using SPR; Drug Discovery; Economics and Innovation in the Biotechnology Industry; Functional Genomic Technologies; Information Processing in Biological Cells; Molecular Modelling and Database Mining; Preparative Methods for Structural Biology; Programming for the Life Sciences; Protein Structure Determination; Quantitative Genetics; Drug Discovery; Tools for Synthetic Biology; Vaccines and Molecular Therapies.

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Students progressing to MSc level will carry out their own research project at the forefront of knowledge and can make a genuine contribution to the progress of original research. This also involves reviewing relevant papers, analysing data, writing a dissertation and giving a presentation.

Career opportunities
You will enhance your career prospects by acquiring knowledge of contemporary biochemistry from world experts in the field, by being trained in advanced analytical and presentation skills, and by having independent research experience in a modern, world-class laboratory.

Entry requirements
A UK 2:1 honours degree, or its international equivalent (www.ed.ac.uk) international (graduate-entry), in biological or environmental science. A background in biochemistry is desirable.

English language requirements
See page 20.

Fees and funding
For fees see page 20 and for funding information see page 22.

Programme Directors
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Bioinformatics

Programme description
Bioinformatics is about the application of computer-based approaches to understanding biological processes. Our programmes will introduce you to the current methods used to interpret the vast amounts of data generated by modern high-throughput technologies. The aim of this MSc is to equip you with a strong background in biology, and the computational skills and knowledge necessary to navigate the vast, wealth of modern biological data. On completing this programme you will be able to take a critical role in the development of bioinformatics post in academia or in industry. The programme covers programming skills, statistical analysis and database science as well as bioinformatics. Option courses allow you to specialise in areas of interest.

Programme structure
The MSc comprises two semesters of taught courses followed by a research project and dissertation. The project is a key element in deciding how your career in bioinformatics should develop further. Teaching is through lectures, tutorials, seminars, computer practicals and laboratory demonstrations.

COMPULSORY COURSES PREVIOUSLY OFFERED INCLUDE:
- Bioinformatics Programming and System Management
- Bioinformatics Research Project Proposal
- Dissertation
- Project Proposal
- Research Project/Industrial Placement

OPTION COURSES PREVIOUSLY OFFERED INCLUDE:
- Bioinformatics 1: Bioinformatics Algorithms
- Comparative and Evolutionary Genomics
- Drug Discovery: Functional & Genomic
- Human-Computer Interaction
- Introduction to Java Programming
- Molecular Modelling and Database Design for Drug Discovery
- Molecular Modelling and Database Mining: Molecular Phylogenetics
- Next Generation Genomics
- Practical Systems Biology: Quantitative Reverse Engineering
- Software Architecture, Process and Management
- Software Development

Research
The research project is carried out independently, but under the guidance of a supervisor, during the summer, with results presented by a research project or industrial placement, leading to a dissertation.

Biotechnology

Programme description
Changing demographics and growing demand for food, fuel and agriculture will bring food and environmental sustainability are among the key challenges the world faces today. In this MSc you will learn research and development skills to enable the creation of new products and services. You will investigate the economic basis of biotechnology and its role in society, and gain experience of working in industry. The programme will open up a wide variety of career opportunities, including roles in the agrochemical and pharmaceutical industries through case studies, seminars and discussions.

Programme structure
This programme consists of two semesters of taught courses followed by a research project, leading to a dissertation.

COMPULSORY COURSES PREVIOUSLY OFFERED INCLUDE:
- Economics and Innovation in the Biotechnology Industry
- Intelligent Agriculture
- Principles of Industrial Biotechnology
- Research Project Proposal
- Project Proposal
- Research Project/Industrial Placement

OPTION COURSES PREVIOUSLY OFFERED INCLUDE:
- Applications of Synthetic Biology: Biobusiness
- Biochemistry A and B: Bioscience
- Bioinformatics
- Bioinformatics Programming and System Management
- Commercial Aspects of Drug Discovery
- Drug Discovery: Molecular Modelling and Database Mining
- Preparative Methods for Structural Biology
- Preparative Methods for Structural Biology Laboratory Experience
- Protein Molecular Modelling Practical Skills

Research and laboratory work
There will be a considerable practical element to the programme. You will work in a biotechnology laboratory and learn how experimental techniques are developed and operated.

Career opportunities
The programme will open up a wide variety of career opportunities, ranging from sales and marketing, to research development, to manufacturing and quality control and assurance. Recent graduates are now working as bioinformaticians, software developers, data analysts and system testers.

Entry requirements
A UK 2:1 honours degree, or its international equivalent (www.ed.ac.uk/ international/graduate-entry), in biological sciences, you must have a strong background in molecular biology, biochemistry or related sciences and some experience of computer science or mathematics. We will also consider you if you have a background in chemistry, physics, mathematics or engineering.

English language requirements
See page 20.

Fees and funding
For fees see page 20 and for funding information see page 22.

Programme Director
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Drug Discovery & Translational Biology

Programme description
The rapid transformation in the nature of drug discovery means that knowledge and understanding of the technologies used, is essential for those considering a career in commercial or academic research. This MSc will help you explore the latest methods of developing drugs and therapeutic compounds for humans and animals and disease control agents for plants. You will learn about marketing, licensing and regulations, and are all part of the development process.

Option courses
Our approach links structural biology, bioinformatics, chemistry and pharmacology. You will investigate the fundamental scientific problems and techniques of drug discovery and design, alongside the challenges of applying scientific principles for new therapeutic strategies. You will have hands-on experience of crystallographic computer programming and computation for bioinformatics. You will consider the moral and ethical aspects of the biotechnological and pharmaceutical industries through case studies, seminars and discussions.

Programme structure
This programme consists of two semesters of taught courses followed by a research project, leading to a dissertation.

COMPULSORY COURSES PREVIOUSLY OFFERED INCLUDE:
- Applicable Mathematics
- Commercial Aspects of Drug Discovery
- Dissertation
- Drug Discovery: Molecular Modelling and Database Mining
- Preparative Methods for Structural Biology
- Project Proposal
- Preparative Methods for Structural Biology Laboratory Experience
- Protein Molecular Modelling Practical Skills

Research and laboratory work
There will be a considerable practical element to the programme. You will work in a biotechnology laboratory and learn how experimental techniques are developed and operated.

Career opportunities
This MSc is designed to help you pursue a career in the pharmaceutical industry, or in other government agencies, and it will provide a good background for managerial or technical roles in research, development and design. It is also a solid basis from which to continue your studies to PhD level. Recent graduates have found roles in healthcare, research and new drug screening, for a range of pharmaceutical companies. Project work

Entry requirements
A UK 2:1 honours degree, or its international equivalent (www.ed.ac.uk/ international/graduate-entry), in biological sciences, biochemistry, molecular biology, pharmacology or mathematics. We will also consider your application if you have a background in chemistry, physics or computer science. We may consider your application if you have a background in another science or medicine; please contact us to check before you apply.

English language requirements
See page 20.

Fees and funding
For fees see page 20 and for funding information see page 22.

Programme Director
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Evolutionary Genetics

Programme description
The revolution in genetic mapping technology and the advent of whole genome sequencing has brought quantitative genetics into one of the fastest growing areas of biology.

Based in the internationally renowned Institute of Evolutionary Biology, this MSc draws from the wealth of expertise available there, as well as the teaching, research expertise and facilities of Scotland’s Rural College, the University’s Centre for Molecular Medicine, the Medical Research Council’s Human Genetics Unit and the Roslin Institute (Birthplace of Dolly the sheep). Each year the syllabus is fine-tuned to suit current issues in evolutionary, plant, human and animal genetics. This programme forms part of the quantitative genetics and genome analysis suite of programmes (see page 8), which includes the specialist courses Animal Breeding & Genetics and Human Complex Trait Genetics.

Programme structure
This programme consists of two semesters of taught courses followed by a research project, leading to a dissertation. Courses are taught via lectures, tutorials, seminars and computer practicals. Assessment is by written examinations, in-course assignments and project work.

COMPULSORY COURSES PREVIOUSLY OFFERED INCLUDE:
- Animal Genetic Improvement
- Bioinformatics
- Evolutionary Quantitative Genetics
- Functional Genomics
- Genetic Analysis
- Genetics of Human Complex Traits
- Molecular Evolution
- Quantitative Genetics

Career opportunities
You will develop the in-depth knowledge and specialised skills required to apply quantitative genetics theory to practical problems, in both the biomedical and animal sciences industries, and to undertake research in evolutionary genetics, population genetics and genome analysis.

Entry requirements
A UK 2:1 honours degree, or its international equivalent (www.ed.ac.uk/ international/graduate-entry), in biological or biomedical sciences, with evidence of quantitative skills. We will also consider your application if you have a background in mathematics, statistics or physics and can show evidence of an interest in genetics.

English language requirements
See page 20.

Fees and funding
For fees see page 20 and for funding information see page 22.

Programme Director
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Taught masters programmes

Human Complex Trait Genetics
MSc 1 yr FT (2 yrs PT available for UK/EU students) PgDip 9 mths FT

Programme description
The revolution in genetic mapping technology and the advent of whole genome sequences have turned quantitative genetics into one of the fastest growing areas of biology. Based in the internationally renowned Institute of Evolutionary Biology, this MSc draws from the wealth of expertise available there, as well as the teaching, research expertise and facilities of Scotland's Rural College, the University’s Centre for Molecular Medicine, the Medical Research Council’s Human Genetics Unit and the Rodin Institute (birthplace of Dolly the sheep).

Each year the syllabus is fine-tuned to suit current issues in evolutionary, plant, human and animal genetics. This programme forms part of the quantitative genetics and genome analysis suite of programmes (see right), which includes the specialist routes Animal Breeding & Genetics and Evolutionary Genetics.

Programme structure
This programme consists of two semesters of taught courses followed by a research project, leading to a dissertation. Courses are taught via lectures, tutorials, seminars and computer practicals. Assessment is by written examinations, in-course assignments and project work.

Fees and funding
For fees see page 20 and for funding information see page 22.

Quantitative Genetics & Genome Analysis
MSc 1 yr FT (2 yrs PT available for UK/EU students) PgDip 9 mths FT

Programme description
The revolution in genetic mapping technology and the advent of whole genome sequences have turned quantitative genetics into one of the fastest growing areas of biology. This MSc is one of a suite of programmes offering specialist routes in genetics. The other programmes are Animal Breeding & Genetics, Evolutionary Genetics, and Human Complex Trait Genetics. Based in the internationally renowned Institute of Evolutionary Biology, this MSc draws from the wealth of expertise available there, as well as the teaching, research expertise and facilities of Scotland's Rural College, the University’s Centre for Molecular Medicine, the Medical Research Council’s Human Genetics Unit and the Rodin Institute (birthplace of Dolly the sheep).

Each year the syllabus is fine-tuned to suit current issues in evolutionary, plant, human and animal genetics. Applicants who wish to select their area of specialisation during the programme should apply for this umbrella programme.

Programme structure
This programme consists of two semesters of taught courses followed by a research project, leading to a dissertation.

Synthetic Biology & Biotechnology
MSc 1 yr FT PgDip 9 mths FT

Programme description
This academically challenging and career-developing programme focuses on the application of engineering principles and chemical systems and principles to create new products, services and industries. You will employ elements of the developing field of synthetic biology to bring about significant changes and major innovations that address the challenges of adapting changing human demographics, resource shortages, energy economy transition and the concomitant growth in demand for more and more sustainable, affordable fuel cycles, and a cleaner environment.

Programme structure
You will learn through a variety of activities, including lectures, workshops, presentations, laboratory work, field work, tutorials, seminars, discussion groups, project groups and problem-based learning activities. You will attend problem-based tutorial sessions and one-to-one meetings with your personal tutor or programme director.

You will carry out research at the frontier of knowledge and can make a genuine contribution to the progress of original research. This involves carrying out project work in a research laboratory, reviewing relevant papers, analysing data, interpreting results and giving presentations.

For fees see page 20 and for funding information see page 22.
Online learning

Drug Discovery & Protein Biotechnology

www.ed.ac.uk/pg/834

Programme description

The modern pharmaceutical industry encompasses the development of 'biologics' (for example antibodies or protein hormones), as much as it does traditional, small-molecule drug discovery.

You will learn how the design and potential uses of different families of proteins and will examine the experiences of successful entrepreneurs in the field who have been involved in the commercialisation of biopharmaceuticals.

Your research project will focus on the early phases of an industrial biologics design programme.

Programme structure

You will learn through a variety of teaching methods, including online tuition, peer-to-peer discussion and individual study. You will take six taught courses, which will be a mixture of compulsory and option courses, followed by a research project leading to a dissertation in your final year.

Individual courses can be taken for Continuing Professional Development (CPD) purposes or you can study for a Postgraduate Certificate (PgCert), Postgraduate Diploma (PgDip) or MSc. The standard MSc duration is three years but we also offer a fast track two-year option depending on your eligibility at the end of Year 1. Alternatively, you can spread your programme over a maximum of six years, through intermittent study, allowing you to accommodate work and other commitments. You can expect to spend seven to 13 hours a week on your studies, depending on your chosen schedule.

COURSES PREVIOUSLY OFFERED INCLUDE:

- Chemistry for Drug Discovery; Commercial Aspects of Drug Discovery; Dissertation; Druggable Systems; High Throughput Drug Discovery; In Silico Drug Discovery; Introduction to Modelling Biological Systems; Measuring Drug Binding; Molecular Modelling; Professional Skills in Drug Discovery; Research Grant Proposal; Structure Determination of Drug Target; Systems Approach to Modelling Cell Signal Transduction.

Career opportunities

You will enhance your career prospects with marketable analytical and presentation skills.

Entry requirements

A UK 2:1 honours degree, or its international equivalent (www.ed.ac.uk) international/graduate-entry, in biotechnology, biochemistry, chemistry, medicine, molecular biology, pharmacology or related sciences. Other scientific backgrounds are considered on a case-by-case basis. We may also consider your application if you have another scientific background; please contact us to check before you apply.

English language requirements

See page 20.

Fees and funding

For fees see page 20 and for funding information see page 22.

Programme Director

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Next Generation Drug Discovery

www.ed.ac.uk/pg/766

Programme description

This online programme will provide you with the stimulus, guidance and knowledge to develop a career around new approaches to drug discovery.

You will study the challenges in developing novel drugs; the science underlying emerging fields of drug discovery; the application of new ideas to the field; how drug discovery relates to real-world health problems; the commercial aspects of drug discovery; and potential future developments.

The programme offers a research-rich environment in which you can develop as a scientist and entrepreneur.

Programme structure

You will be taught through a variety of teaching methods, including online tuition, peer-to-peer discussion and individual study. For the MSc, you will take six taught courses – a mixture of compulsory and option courses. In your final year, you will pursue a research project leading to a dissertation.

You can take individual courses for Continuing Professional Development (CPD) purposes or study to qualify for a Postgraduate Certificate (PgCert), Postgraduate Diploma (PgDip) or the MSc. The standard MSc duration is three years but we also offer a fast track two-year option depending on your eligibility at the end of Year 1. Alternatively, you can spread your programme over a maximum of six years through intermittent study, allowing you to plan around work and other commitments. You can expect to spend seven to 13 hours a week on your studies, depending on your chosen schedule.

COURSES PREVIOUSLY OFFERED INCLUDE:

- Commercial Aspects of Drug Discovery; Chemistry for Drug Discovery; Druggable Systems; Dissertation; High Throughput Drug Discovery; In Silico Drug Discovery; Introduction to Modelling Biological Systems; Measuring Drug Binding; Modelling Metabolic Pathways; Molecular Modelling; Professional Skills in Drug Discovery; Structure Determination of Drug Target; Systems Approach to Modelling Cell Signal Transduction.

Career opportunities

You will enhance your career prospects with marketable analytical and presentation skills.

Entry requirements

A UK 2:1 honours degree, or its international equivalent (www.ed.ac.uk) international/graduate-entry, in biotechnology, biochemistry, chemistry, medicine, molecular biology, pharmacology or related sciences.

English language requirements

See page 20.

Fees and funding

For fees see page 20 and for funding information see page 22.

Programme Director

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Research at the School of Biological Sciences

We’re one of the largest and most highly rated centres of our kind in the UK and one of the top 25 worldwide for biological sciences.1

With the majority of our research judged as either world leading or internationally excellent in the Research Excellence Framework (REF) 2014, and with a successful record of research grant applications, we can offer an environment that boasts cutting-edge equipment and facilities to encourage research excellence and innovation. You’ll be part of an active Graduate School and will benefit from the support of around 130 principal investigators, many of whom hold independent personal fellowships funded by prestigious bodies. Through our innovative skills database, you’ll have access to a huge range of expertise within our comprehensive research areas, the output of which has been assessed as second in the UK for the volume of “internationally excellent” and “world-leading” research.

Research routes

Our six discipline-based research institutes cover biology from molecular structure to evolutionary and population biology.

PhD

As a PhD candidate you pursue a research project under continuous guidance, resulting in a thesis that makes an original contribution to the sector. You will gain specialist background knowledge for your intended research and develop the skills to research in that field.

We offer two routes to a PhD: a four-year programme that includes a substantial training component and a three-year programme for students with a strong background in their chosen area.

MPhil

The Master of Philosophy (MPhil) resembles a PhD but generally takes two years and does not carry the same requirement for original contribution to knowledge. You’ll pursue your individual research project under supervision and submit a thesis.

MSc by Research

An MSc by Research is based on a research project tailored to your interests. It lasts one year full time or two years part time.

The project can be a shorter alternative to an MPhil or PhD, or a precursor to either – including the option of an MSc project expanding into MPhil or doctorate work as it evolves.

Entry requirements

A UK 2:1 honours degree, or its international equivalent, in a relevant subject. You should have some research experience and be able to demonstrate that you have a good understanding of the field you propose to study.

High rate of career success

We find the overwhelming majority of our students have an academic career in mind when applying for research programmes. Our latest figures show that 84 per cent of our graduates enter an academic research or teaching career on graduation, and are now establishing themselves in universities and other research institutions worldwide. It’s a significant achievement, one that demonstrates the quality of both our research and our standing within the international academic community. We also fully support our students who plan to develop careers outside academia.

Case study: Edinburgh’s research with impact

New hope for Rett syndrome sufferers

Rett syndrome is a severe autistic-spectrum disorder with delayed onset that affects one in 10,000 girls, which includes around 16,000 in the US, and an estimated 2,400 here in the UK. This regressive disease causes loss of speech and hand movement, coupled with autistic behaviour, an undersized brain (microcephaly), and growth retardation. A cure or therapy was thought to be most unlikely. However, leading geneticist Professor Sir Adrian Bird from the University’s School of Biological Sciences may have found the answer to this devastating disease.

Project background

The syndrome was previously believed to be a developmental or neurodegenerative disease because of its early appearance and the gradual deterioration of those affected. However, leading-edge research led by Professor Bird has presented the very real prospect of a future cure. By developing a genetic mouse model for Rett syndrome that mimics the genetic mutation that causes its symptoms, Professor Bird opened up a new avenue of research. In 2007, Dr Jacky Guy and other scientists in Professor Bird’s team introduced a modified MeCP2 gene into Rett model mice, which allowed controlled expression of normal MeCP2 protein – a lack of which had been determined to be the cause of Rett syndrome.

Mutant female mice carrying this modified gene exhibited the characteristics of Rett syndrome until normal MeCP2 expression was activated, after which they rapidly regained normal behaviour. This striking result indicated that the developmental or degenerative changes seen in Rett patients are reversible, and overturned previous understanding of the disease.

Project results

These potentially life-changing findings by the research team at the University have inspired worldwide awareness campaigns, a documentary, and fundraising programmes aimed at supporting further research. They underpin the rationale of multiple clinical trials now under way in both Europe and the US to test both symptom-relieving drugs and gene therapy to combat the underlying cause.

Leading-edge research led by Professor Bird has presented the very real prospect of a future cure.

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

Research opportunities

www.ed.ac.uk/pg7

Cell Biology

PhD 3 yrs FT (6 yrs PT available for UK/EU students)
MPhil 2 yrs FT (4 yrs PT available for UK/EU students)
MSc by Research 1 yr FT (2 yrs PT available for UK/EU students)

Research environment

The Institute of Cell Biology (ICB), including the Welcome Trust Centre for Cell Biology and its specialist PhD programme, hosts 28 laboratories carrying out world-class research into fundamental mechanisms relating to cellular function. We apply a wide range of approaches including molecular genetics, cell and structural biology, systems biology approaches and mathematical modelling.

Our research groups comprise one of the largest communities of cell biology researchers in the UK. Many of our staff are Fellows of the Royal Society and acknowledged leaders in their field. Most PhD students who train at the ICB continue with their academic career or join research in the industry, often becoming independent group leaders.

Diversity of interests

We offer a wide scope of projects covering different areas of cell biology, including the synthesis, processing, localisation and degradation of RNA; epigenetic control of gene expression, chromosome function and genome stability; mechanisms of cell growth and duplication; the rules that govern cellular architecture; biotechnology; synthetic biology; and microbial regulation. A variety of courses in microscopy, bioinformatics and proteomics are available to all our PhD students.

Facilities

The ICB provides an exceptional working environment. The Wellcome Trust Centre for Cell Biology is home to the Central Optical Instrumentation Laboratory (COIL), while image analysis at the boundary of biology and physics is provided through the nearby Collaborative Optical Spectroscopy Micromanipulation and Imaging Centre (COSMIC). The ICB is proud of its cutting-edge proteomics facility and automated drug-screening platforms that facilitate discovery of new molecules that impact on cellular functions.

English language requirements

See page 20.

Research environment

As a research student at the Institute of Evolutionary Biology you will join the UK’s largest and most dynamic community of researchers in the field. With about 30 research groups, which include about 50 PhD students, you’ll benefit from a busy programme of seminars, journal clubs and other research-furthering activities and will be encouraged to publish your findings. You’ll also take part in student-led courses and talks.

We have an enviable record in academic career success. Our institute reflects the School-wide figure of 84 per cent for students achieving academic posts after they complete their PhD.

We go beyond the study of animal behaviour to focus on the underpinnings of the science of evolution, down to the level of DNA, to look at just how organisms fundamentally develop as a result of natural selection.

Our current research falls under three broad themes: evolutionary and quantitative genetics, evolutionary ecology and behaviour, and biodiversity and ecology. Researchers are working on everything from viral evolution and host-parasite co-evolution to natural selection in the wild and plant conservation genetics.

Facilities

Topping our list of impressive research tools is Edinburgh Genomics, one of the UK’s biggest university-based genomics facilities. Attracting visiting researchers from all over the UK and internationally, this next-generation facility opens up new ways of creating research data. If your study involves bioinformatics, the Ashworth Bioinformatics Support Service provides a vital link with the expertise and facilities on offer through our world-leading School of Informatics.

English language requirements

See page 20.

Fees and funding

For fees see page 20 and for funding information see page 22.

www.ed.ac.uk/pg8

Evolutionary Biology

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www.ed.ac.uk/pg7

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I completed a PhD in Structural Biology at the University of Edinburgh. I originally joined the Walkinshaw group as a bioinformaticists PhD candidate but through Professor Walkinshaw’s supportive and motivational mentorship took up the exciting challenge of X-ray crystallography, which I have continued to investigate through a postdoctoral fellowship at the University of British Columbia, Vancouver, Canada.

Liam Worrall, PhD Structural Biology
About the School of Biological Sciences

Our School features a vibrant community of staff and students that continues a 400-year history of scientific exploration with innovative work that seeks to shape tomorrow’s world.

We are constantly seeking to shed light on the secrets of life through our wide-ranging research. More than half of our research was assessed as world-leading in the Research Excellence Framework (REF) 2014 placing us in the UK’s top three for overall research quality and confirming our position as one of the world’s leading biological science research groups.

Through our membership of Scottish Universities Life Sciences Alliance, we work with colleagues in other institutions to maintain the country’s world-class research base. Our commitment to pioneering science, supported by a healthy flow of grant funding, helps create an environment where world firsts are possible. For example, the first genetically engineered vaccine against hepatitis B was developed here at the School of Biological Sciences.

Our School houses about 130 principal biological science research groups. Many of our researchers also participate in one or more of our numerous cross-disciplinary research centres.

Research institutes

Our world-class research takes place in six research institutes:

• The Institute of Cell Biology
• The Institute of Evolutionary Biology
• The Institute of Immunology and Infection Research
• The Institute of Molecularl Plant Sciences
• The Institute for Stem Cell Research
• The Institute of Quantitative Biology, Biochemistry and Biotechnology.

Programmes

Postgraduate teaching takes every advantage of our School’s expertise to give you outstanding opportunities to study within your chosen field, from programmes taught at the world-famous Royal Botanic Garden Edinburgh to those that develop biofuels and new medicines. Our students can be found discovering how to develop new products for human and animal health, or applying the latest engineering principles to the exploration of biological networks.

Effective outcomes

The School of Biological Sciences continues to make its mark on the future. Entrepreneurial opportunities are supported by Edinburgh Innovations, the University’s commercialisation office, with a dedicated business development team embedded in the School. Across the University, Edinburgh Innovations has helped create more than 400 companies during the last 50 years.

Some 90 administrative and technical staff support the School’s academic activities.

Facilities and resources

Whatever tools you need to conduct your research, you’ll find the latest at the School of Biological Sciences.

Our Edinburgh Genomics sequencing service plays host to the National Environment Research Council National Sequencing Facility and Medical Research Council Hub Facility.

Advanced microscopy and flow cytometry are two of our major strengths. Our microscopy facilities house state-of-the-art widefield and confocal fluorescence, and transmission and scanning electron microscopes. Our flow cytometry facilities offer cutting-edge analytical and sorting capabilities.

Extensively equipped

We have protein production and biophysical characterisation facilities, including surface plasmon resonance, ITC and spectroscopic equipment. We host more than 1,000m² of controlled environment growth space and glasshouse space, and have computing resources for evolutionary biology, including four dedicated computer clusters for phylogenomics, comparative genomics, population genetics and quantitative trait loci genetics.

Excellent facilities

We are based almost wholly at the University’s King’s Buildings campus, about 15 minutes by bus from the city centre. You can take advantage of the Noreen and Kenneth Murray Library, named after the pioneers of the first genetically engineered hepatitis B vaccine, as well as the Learning and Teaching Cluster and the social and sports facilities at King’s Buildings House. All postgraduate research students are given their own desk space in shared student offices.

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.

“I was very excited to be able to attend one of the best universities in the world. The programme is intensive and the professors kept us busy. Sometimes I struggled, but I was happy because I gained so much as a student here.”

Stamatina Fragkogianni, MSc Bioinformatics
Community

The School forms one of the largest academic groupings of biological scientists in the UK. Whether you are following a taught postgraduate programme or embarking on research, you will be welcomed into a supportive and enthusiastic community of students and staff.

The MSc experience
As an MSc student, there is always something to keep you motivated and inspired – from the University’s Festival of Creative Learning to the Edinburgh International Science Festival. Each of our MSc programmes has a dedicated administrator who is there to help you with any queries.

Research support
All postgraduate students are members of our Graduate School, which enjoys an active academic and social calendar. The Graduate School offers you every opportunity to join in – from peer support groups and journal clubs to BioDocSoc, our society run by and for research students and staff.

Inspiring environment
Our environment of shared knowledge and expertise has led to groundbreaking and globally recognised research achievements. Our research institutes provide a forum for development of ideas, collaboration and dissemination of results, along with an environment for training and mentoring research students and early career researchers. BioSkills, a database developed by our own researchers, makes it easy to identify fellow researchers in Edinburgh who can share their skills and expertise with you.

Links and partnerships
Our participation in the work of a wide variety of interdisciplinary research centres reflects the importance we place on the collaborative approach to research. Through these connections, you’ll come into contact with researchers from varied academic backgrounds and gain insights into new approaches and techniques. We are linked with:

- Edinburgh Bioinformatics
- The Centre for Translational & Chemical Biology
- Edinburgh Infectious Diseases
- The MRC Centre for Regenerative Medicine
- SynthSys – Centre for Synthetic and Systems Biology
- The Wellcome Trust Centre for Cell Biology
- The Wellcome Trust Centre for Infection, Immunity & Evolution

Many of our research projects also involve collaborations with Scotland’s Rural College, the Royal Botanic Garden Edinburgh and many other academic and commercial organisations.

The School of Biological Sciences is lead partner in the EASTBIO Doctoral Training Partnership, a collaboration between the universities of Aberdeen, Dundee, Edinburgh and St Andrews. Funded by the Biotechnology and Biological Sciences Research Council, EASTBIO awards a minimum of 34 fully funded PhD studentships annually and provides enhanced training to its students.

More information: www.eastscotbiodtp.ac.uk

The Innovation Forum
Edinburgh hosts a local branch of the Innovation Forum, a global network of researchers and entrepreneurs active at the universities of Cambridge, Oxford, London, Edinburgh, Copenhagen, Lausanne, Barcelona, Hong Kong and Tokyo. This is a student-led initiative seeking to promote innovation by building bridges between academia, industry and government, and linking innovative minds across disciplines.

More information: www.inno-forum.org

Employability and graduate attributes
We offer a research-rich environment in which to develop as a scientist or entrepreneur and you will gain skills that benefit your personal and professional development whichever direction your career takes. The University provides a range of services and opportunities to help you make the most of your time here and the School offers professional internship schemes to MSc and PhD students.

Professional internships
We offer EASTBIO PhD students the opportunity to pursue a professional internship, supported by a Postgraduate Placements Coordinator. All EASTBIO students spend three months of their PhD programme pursuing a non-academic internship. This is designed to help you develop a broad range of professional skills.

Science communication
There are plenty of opportunities to develop science communication skills. The student-run BioPod series of podcasts covers stories from across the School – you might find yourself the subject of one, or helping to produce them. Similarly, our Press Gang works with the University’s Press Office and the Scottish Initiative for Biotechnology Education to spread the word on the School’s pioneering work. Many of our students are part of the EuSci team, publishing a regular science magazine, and there are also opportunities to get involved with the annual Edinburgh International Science Festival.

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

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

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

More information: www.eastscotbiodtp.ac.uk

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 departments or office spaces 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

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

More information: www.LAUNCH.ed.ac.uk
Applications and fees

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

When applying, you will set up an account, which lets you save your application and continue at another time.

Full guidance on our application system is available at: www.ed.ac.uk/postgraduate/applying

General requirements
Our usual entrance requirement for postgraduate study is a UK 2:1 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
Taught masters applications
Some programmes have application deadlines. Please check the programme entry online for details. For all other programmes, you are encouraged to apply no later than one month prior to entry to ensure there is sufficient time to process your application. However, earlier application is recommended, particularly where there is a high demand for places or when a visa will be required. Should you wish to submit a late application, please contact us for guidance. If you are applying for funding we encourage you to submit your programme application as early as possible, as in most cases you will need a programme offer before you can make your funding application. Most funding deadlines are no later than June.

Research applications
For funded studentships our main application deadline is usually around December. Occasionally funded studentships are advertised later in the academic year. Please check our website (www.ed.ac.uk/biology/postgraduate) for full deadline details. We accept applications from students with their own funding all year round.

English language requirements
Students whose first language is not English must show evidence of one of the qualifications below:

- 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).
- 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/pg

Tuition fees
The following table provides an overview of indicative fee levels for programmes commencing in 2018.

Figures marked * show the fee level set for the 2017/18 academic year. All other figures are indicative of expected fee levels for your studies during the 2018/19 academic year. Because these figures are indicative, it is important you check online before you apply and check the up-to-date fee level that will apply to your specific programme: www.ed.ac.uk/student-funding/tuition-fees/postgraduate

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

Tuition fees for EU students
EU students enrolling in the 2018/19 academic year will be admitted as Scottish/EU fee status students. Taught masters students will be eligible for the same tuition support as Scottish domiciled students from the Student Awards Agency for Scotland (SAAS).

For UK/EU students

<table>
<thead>
<tr>
<th>Programme</th>
<th>Annual fee</th>
</tr>
</thead>
<tbody>
<tr>
<td>Taught programme</td>
<td>£14,700</td>
</tr>
<tr>
<td>MSc by Research 1-year FT</td>
<td>£7,850</td>
</tr>
<tr>
<td>MSc by Research 2-years PT</td>
<td>£3,950</td>
</tr>
<tr>
<td>MPhil 2-years FT</td>
<td>£4,195*</td>
</tr>
<tr>
<td>PhD 3-years FT</td>
<td>£4,195*</td>
</tr>
<tr>
<td>PhD 6-years FT</td>
<td>£2,098*</td>
</tr>
</tbody>
</table>

Online Learning

<table>
<thead>
<tr>
<th>Programme</th>
<th>Annual fee</th>
</tr>
</thead>
<tbody>
<tr>
<td>Taught programme</td>
<td>£17,700</td>
</tr>
</tbody>
</table>

For international students

<table>
<thead>
<tr>
<th>Programme</th>
<th>Annual fee</th>
</tr>
</thead>
<tbody>
<tr>
<td>Taught programme</td>
<td>£29,100</td>
</tr>
<tr>
<td>MSc by Research 1-year FT</td>
<td>£17,800</td>
</tr>
<tr>
<td>MSc by Research 2-years PT</td>
<td>£11,000</td>
</tr>
<tr>
<td>MPhil 2-years FT</td>
<td>£21,000</td>
</tr>
<tr>
<td>PhD 3-years FT</td>
<td>£23,000</td>
</tr>
</tbody>
</table>

* Figure shown is the 2017/18 fee level. All other fees quoted are indicative of 2018/19 fee levels. Because these figures are indicative, it is important you check online before you apply and check the up-to-date fee level that will apply to your specific programme: www.ed.ac.uk/student-funding/tuition-fees/postgraduate

For more information, please visit: www.ed.ac.uk/tuition-fees/postgraduate

For the latest programme information online, please visit: www.ed.ac.uk/postgraduate/degrees
The Scottish Government’s initiative to attract international students through the Saltire Scholarship Scheme, as well as the University of Edinburgh’s help and support for funding/discounts.

Robert Starr, MSc High Performance Computing, Scotland’s Saltire Scholarship University of Edinburgh as a visiting graduated with an undergraduate degree.

Tuition fee discounts

We offer a 10 per cent discount on postgraduate fees for all alumni who have graduated with an undergraduate degree from the University. We also offer a 10 per cent discount for international graduates who spent at least one semester at the University of Edinburgh as a visiting undergraduate.

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

China Scholarships Council

A number of scholarships are available to candidates who are citizens and residents of China: www.ed.ac.uk/student-funding/china-council

Edinburgh Global Masters Scholarships

A number of scholarships are available to international students for masters study: www.ed.ac.uk/student-funding/masters

Edinburgh Global Research Scholarships

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

Edinburgh Principal’s Career Development Scholarships

A number of scholarships, open to UK, EU and international PhD students: www.ed.ac.uk/student-funding/development

Enlightenment Scholarships

The University is currently developing a new style of PhD scholarship to attract the best PhD applicants from around the world. These scholarships will provide funding for up to four years. For the latest information, and for details on which Schools will be participating, please check: www.ed.ac.uk/student-funding/enlightenment

Edinburgh Syrian Postgraduate Scholarships

A number of scholarships are available to postgraduate students from Syria studying a full-time one-year masters: www.ed.ac.uk/student-funding/postgraduate/syria

Highly Skilled Workforce Scholarships

A number of scholarships are available to UK nationals permanently domiciled in Scotland, and to EU nationals domiciled either on mainland EU or in Scotland, who have been accepted on an eligible full- or part-time masters programme. The scholarships, which are funded by the Scottish Funding Council and subject to annual confirmation, cover the UK/EU tuition fee. At the time of printing, we are awaiting confirmation of these scholarships from the Scottish Government:

Julius Nyerere Masters Scholarship (Tanzania)

One scholarship is available to citizens of Tanzania who are normally resident in Tanzania who are accepted on a full-time masters programme:

School of Biological Sciences Research Scholarships

Within the School of Biological Sciences, a number of highly competitive research scholarships are available each year to new postgraduate research students, including funding from BBSRC, NERC, MRC, Wellcome Trust and our School International Scholarships:

Colombia

Administrative Department of Science, Technology and Innovation (COLCIENCIAS): www.colciencias.gov.co

Ecuador

Secretaria Nacional de Educación Superior, Ciencia y Tecnología (SENESCYT): www.educacionsuperior.gob.ec

Iraq

Ministry of Higher Education and Scientific Research: www.iraqicentralattache.org.uk

Mexico

National Council of Science and Technology of the United Mexican States (CONACYT): www.conacyt.mx

Pakistan


Sri Lanka

The University is eligible to certify Sri Lanka student loan applications: www.ed.ac.uk/student-funding/sri-lanka

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

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

Postgraduate Loans (PGL)

Wales

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

US Student Loans

The University is eligible to certify US student 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

Biological Sciences Postgraduate Opportunities 2018

The University of Edinburgh

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 masters programmes can apply: www.ed.ac.uk/student-funding/learning/online-distance

Funding for online learning

The University offers several scholarships specifically for online, part-time postgraduate programmes, including the Edinburgh Global Online Distance Learning Masters Scholarship, for which applicants to many masters programmes can apply: www.ed.ac.uk/student-funding/learning/online-distance
The School of Biological Sciences is on the King’s Buildings campus, where our teaching and administration takes place across several buildings. The King’s Buildings campus is around two miles from Edinburgh city centre and is well served by buses, including a free University shuttle service during semester time.

For more information about taught MSc programmes, contact:
Sarah Harvey
Biology Teaching Organisation
2105, James Clerk Maxwell Building
King’s Buildings
Peter Guthrie Tait Road
Edinburgh, UK
EH9 3FD
Tel +44 (0)131 651 7052
Email pgobiol@ed.ac.uk
www.ed.ac.uk/biology/taught-masters

For enquiries relating to specific programmes, please refer to the contact details provided for each programme listing.

For more information about our postgraduate research programmes, please contact:
Dr Caroline Proctor
Graduate School of Biological Sciences
2.06, Mary Brück Building
King’s Buildings
Mayfield Road
Edinburgh, UK
EH9 3DW
Tel +44 (0)131 650 5327
Email gradbiol@ed.ac.uk
www.ed.ac.uk/biology/research

To discuss your PhD proposal, you should identify potential supervisors at: www.ed.ac.uk/biology/people

The University’s Postgraduate Open Day is your opportunity to come and meet current staff and students. Our next campus-based Open Day takes place on 15 November 2017. For more information, visit: www.ed.ac.uk/postgraduate-open-day

The School of Biological Sciences welcomes visitors at any time. We can give you a tour of the campus and arrange a meeting with your potential Programme Director. If you are unable to visit, we can arrange a video call.

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

UK and Europe: www.ed.ac.uk/postgraduate/uk-eu-events
International: www.ed.ac.uk/international/our-visits-overseas

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

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

The front cover shows seven specimens of land dwelling gastropod shells. These were collected by Charles Darwin while on St Helena, 8-14 July 1836, during HMS Beagle’s return voyage from the Galápagos Islands.

The items in this illustration are part of the University’s unique Centre for Research Collections, a rich resource for all our students, staff and the wider community.

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