“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
Influencing the world since 1583

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 Dame Katherine Grainger and historical greats such as philosopher David Hume, suffragist Chrystl Macmillan, who founded the Women’s International League for Peace and Freedom, and physicist and mathematician James Clerk Maxwell.

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

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

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

TOP 50
We're consistently ranked one of the top 50 universities in the world. We're 20th in the 2020 QS World University Rankings.

4TH
We’re ranked fourth in the UK for research power, based on the 2014 Research Excellence Framework.*

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

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

£403m
In 2017/18 we won £403 million in competitive research grants.

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

22ND
We’re ranked 22nd in the world’s most international universities.‡ Since 2010, we have taught students from more than 160 countries.

* Times Higher Education, Overall Ranking of Institutions
† Times Higher Education, Global Employability University Ranking 2018
‡ Times Higher Education: The World’s Most International Universities 2019
Computational Mathematics

Programme description
Computational mathematics, in particular the physical applied area and the theory and implementation of numerical methods and algorithms, has wide-ranging applications in both public and private sectors. In this era of ubiquitous, cheap computing power, there has been an explosion in the number of problems that require us to use large data sets and to understand processes by modelling them. Consequently, there is high demand for computational modellers and data scientists. This programme concentrates on the overlap and synergy between these fields.

Programme structure
You will study two semesters of taught courses followed by a dissertation. The availability of courses each year may be subject to change as the curriculum develops. Your individual dissertation will be supervised by a research student from the applied and computational mathematics group. The project will provide practical experience and skills for tackling scientific problems requiring both computational approaches and mathematical insight. This will include identifying and applying appropriate mathematical and numerical techniques, interpreting the results, and presenting the conclusions.

COMPULSORY COURSES PREVIOUSLY OFFERED INCLUDE:
- Applied Dynamical Systems
- Numerical Linear Algebra
- Python Programming
- Numerical Partial Differential Equations
- Research Skills for Computational Applied Mathematics

OPTION COURSES PREVIOUSLY OFFERED INCLUDE:
- Applied Stochastic Differential Equations
- Bayesian Data Analysis
- Bayesian Theory
- Data Analytics
- High Performance Computing
- Data Assimilation
- Fundamentals of Optimization
- Large Scale Optimization for Data Science
- Machine Learning in Python
- Mathematics in Action A
- Multi-scale Methods in Mathematical Modelling
- Multivariate Data Analysis
- Numerical Ordinary Differential Equations and Applications
- Object-Oriented Programming with Applications
- Optimization Methods in Finance: Statistical Techniques
- Portfolio Theory
- Programming
- Probability
- Python Programming
- Scientific Computation
- Stochastic Modelling
- Time Series

Career opportunities
This programme will provide training in the tools and techniques of mathematical modelling and scientific computing, and provides you with skills for problem solving using modern applied mathematics techniques.

Entry requirements
A UK 2:1 degree, or its international equivalent (www.ed.ac.uk/international/graduate-entry), in a numerate discipline such as mathematics, engineering, computer or physical sciences. Previous study of applied mathematics, probability and differential equations at university level will be required. Applicants should have studied a university-level course with a substantial programming element, or have an equivalent level of programming experience.

English language requirements
See page 20.

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

Programme Director
Dr Konstantinos Zygalakis
Tel +44 (0)131 650 5975
Email cammics@ed.ac.uk

Financial Mathematics

Programme description
This masters is run jointly with Heriot-Watt University. It provides you with expertise in financial mathematics, including stochastic calculus, and a range of practical techniques for analysing financial markets. You will also learn quantitative skills for developing and managing risk that are in high demand since the recent financial crisis.

Placements
Adding depth to your learning, a work placement puts you at the heart of financial organisations such as Aberdeen Standard Investments, Lloyds Banking Group, Moody’s Analytics and Royal Bank of Scotland.

Programme structure
This programme involves two taught semesters of compulsory and option courses, followed by a dissertation project. Taught elements of the programme will be delivered by both Heriot-Watt University and the University of Edinburgh and you will attend each institution as appropriate. Your dissertation will be supervised by staff from Heriot-Watt University.

COMPULSORY COURSES PREVIOUSLY OFFERED INCLUDE:
- Discrete-Time Finance: Stochastic Analysis in Finance (delivered by the University of Edinburgh)
- Credit Risk Modelling: Derivatives Markets; Derivative Pricing and Financial Modelling: Financial Markets; Special Topics (delivered by Heriot-Watt University)

OPTION COURSES PREVIOUSLY OFFERED INCLUDE:
- Optimization Methods in Finance: Simulation; Stochastic Control and Dynamic Asset Allocation (delivered by the University of Edinburgh)
- Financial Econometrics; Numerical Methods of Partical Differential Equations; Portfolio Theory; Statistical Inference; Statistical Methods Time Series Analysis (delivered by Heriot-Watt University)

Career opportunities
Graduates typically work in major financial institutions or continue their studies by joining PhD programmes. Recent graduates are now working as bankers, financial consultants, tax administrators, and risk, portfolio, quantitative and credit analysts, for employers such as EY, Barclays Bank, Scottish Widows, Standard Life Aberdeen, Moody’s Analytics and the People’s Bank of China.

Entry requirements
A UK 2:1 degree, or its international equivalent (www.ed.ac.uk/international/graduate-entry), in mathematics or a mathematical subject such as statistics, physics or engineering.

English language requirements
See page 20.

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

Programme Contact
MACS PG Enquiries
Tel +44 (0)131 451 4152
Email macsgenquiries@hw.ac.uk
Financial Modelling & Optimization

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

Programme description
This programme gives you a flexible syllabus to suit the demands of employers that use modern financial tools and optimization techniques in areas such as the financial sector and energy markets. We will give you sound knowledge in financial derivative pricing, portfolio optimization and financial risk management. We will also provide you with the skills to solve some of today’s financial problems, which have themselves been caused by modern financial instruments. This expertise includes modern probability theory, applied statistics, stochastic analysis and optimization.

Placements
Adding depth to your learning, a work placement puts you at the heart of financial organisations such as Aberdeen Standard Investments; Lloyds Banking Group, Moody’s Analytics and Royal Bank of Scotland.

Programme structure
This programme involves two taught semesters followed by a dissertation.

COMPULSORY COURSES PREVIOUSLY OFFERED INCLUDE:
- Discrete-Time Finance; Fundamentals of Optimization; Numerical Probability & Monte Carlo; Optimization Methods in Finance; Research-Linked Topics; Risk Neutral Asset Pricing; Stochastic Analysis in Finance.

OPTION COURSES PREVIOUSLY OFFERED INCLUDE:
- Advanced Time Series Econometrics; Combinatorial Optimization; Computing for Operational Research & Finance; Credit Scoring; Finance, Risk and Uncertainty; Financial Risk Management; Financial Risk Theory; Fundamentals of Operational Research; Large Scale Optimization for Data Science; Modern Optimization Methods for Big Data Problems; Multivariate Data Analysis; Nonlinear Optimization; Numerical Partial Differential Equations; Object-Oriented Programming with Applications; Parallel Numerical Algorithms; Programming Skills; Risk Analysis; Stochastic Control and Dynamic Asset Allocation; Stochastic Modelling; Stochastic Optimization.

Career opportunities
Graduates have gone on to work in major financial institutions or to continue their studies by joining PhD programmes. Recent graduates are now working as financial consultants, tax administrators, and risk, quantitative and credit analysts, for employers such as EY, Barstays Bank, Santander, Scottish Widows, Moody’s Analytics and the People’s Bank of China.

Entry requirements
A UK 2:1 degree, or its international equivalent (www.ed.ac.uk/internationalgraduate-entry), in mathematics or a mathematical subject such as statistics, physics 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 Dr David Siska  
Tel +44 (0)131 650 5684  
Email fromsc@ed.ac.uk

See also...
Taught masters programmes in related fields are also offered by the University of Edinburgh Business School, the School of Economics, School of Informatics and the School of Physics & Astronomy.

www.ed.ac.uk/studying/prospectus-request
Operational Research with Data Science

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

Programme description
This programme will help you develop professionally in the theory and practice of operational research (OR), providing a range of applications of operations research to practical problems. It will prepare you for work in areas such as the medical and health industry, government, the financial sector and any other area where modern statistical tools and OR techniques are used. You will also develop the wider skills required for solving problems, working in teams and time management.

You will be able to identify and apply appropriate statistical or operational techniques to practical problems. This will include specifying appropriate models and fitting these models using appropriate computer packages.

Programme structure
This MSc consists of two semesters of taught courses, assessed by coursework and examinations. You will undertake a dissertation, which may take the form of an industrial project.

COMPULSORY COURSES PREVIOUSLY OFFERED INCLUDE:
- Fundamentals of Operational Research
- Fundamentals of Optimization
- Methodology, Modelling and Consulting Skills

OPTION COURSES PREVIOUSLY OFFERED INCLUDE:
- Algorithmic Game Theory and its Applications
- Bioinformatics
- Biomedical Data Science
- Computational Cognitive Neuroscience
- Credit Scoring
- Data Mining and Exploration
- Generalised Regression Models
- Incomplete Data Analysis
- Integer and Combinatorial Optimization
- Introductory Applied Machine Learning
- Large Scale Optimization for Data Science
- Machine Learning and Pattern Recognition
- Machine Learning in Python
- Object-Oriented Programming with Applications
- Operational Research in the Energy Industry
- Optimization Methods in Finance: Probabilistic Modelling and Reasoning
- Python Programming
- Reinforcement Learning: Risk and Logistics
- Statistical Methodology
- Statistical Programming
- Statistical Research Skills

Career opportunities
Graduates will gain the transferable skills required to pursue careers in a data-rich operational research environment, and will be in an ideal position to apply for work in a wide range of industries. The programme has had a high employment success for students who have joined Barclays, Cap Gemini, EY, Mekle/Aquila, British Airways and Royal Bank of Scotland. The programme is excellent preparation for further study in operational research, optimization or data science.

Entry requirements
A UK 2:1 degree, or its international equivalent (www.ed.ac.uk/academic规s/graduate-entry), in a numerate discipline such as mathematics, engineering, computer science, physical or biological sciences, economics or business. You must also have studied probability and statistical theory at university level. You can increase your chances of a successful application by exceeding the minimum programme requirements.

English language requirements
See page 20.

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

Programme Director
Dr Bruce Morton
Tel +44 (0)131 650 4884
Email statsmsc@ed.ac.uk

Statistics & Operational Research

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

Programme description
This programme will help you develop professionally in the theory and practice of statistics and operational research (OR), providing a range of applications of operations research to practical problems. It will prepare you for work in areas such as the medical and health industry, government, the financial sector and any other area where modern statistical tools and OR techniques are used. You will also develop the wider skills required for solving problems, working in teams and time management.

You will be able to identify and apply appropriate statistical or operational techniques to practical problems. This will include specifying appropriate models and fitting these models using appropriate computer packages.

Programme structure
This MSc consists of two semesters of taught courses, assessed by coursework and examinations. You will undertake a dissertation, which may take the form of an industrial project.

COMPULSORY COURSES PREVIOUSLY OFFERED INCLUDE:
- Bayesian Theory
- Fundamentals of Operational Research
- Fundamentals of Generalised Regression Models
- Methodology, Modelling and Consulting Skills
- Simulation; Statistical Programming
- Statistical Research Skills

OPTION COURSES PREVIOUSLY OFFERED INCLUDE:
- Bayesian Data Analysis
- Biomedical Data Science
- Credit Scoring
- Genetic Epidemiology
- Incomplete Data Analysis
- Statistical Programming
- Statistical Research Skills

Career opportunities
This programme is ideal for students who wish to apply their statistics and operational research knowledge within a wide range of sectors, including the medical/health sector, government, transport/airlines and finance. The advanced problem-solving skills you will develop will be highly prized by many employers.

Entry requirements
A UK 2:1 degree, or its international equivalent (www.ed.ac.uk/academic规s/graduate-entry), in a numerate discipline such as mathematics, engineering, computer science, physical or biological sciences, economics or business. You must also have studied probability and statistical theory at university level. You can increase your chances of a successful application by exceeding the minimum programme requirements.

English language requirements
See page 20.

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

Programme Director
Dr Bruce Morton
Tel +44 (0)131 650 4884
Email statsmsc@ed.ac.uk

Statistics with Data Science

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

Programme description
In this digital, data-rich era, the demand for statisticians graduates from industry, the public sector and academia is high, yet the pool of such graduates is small. The recent growth of data science has increased the awareness of the importance of statistics, with the analysis of data and interpretation of the results firmly embedded within this newly developed skillset. The MSc is designed to train the next generation of statisticians with a focus on the newly recognised field of data science. It combines rigorous statistical theory with wider hands-on practical experience of applying statistical techniques to data and correctly interpreting the associated results. You will be trained in both classical and Bayesian ideologies and associated computational software, including R, for fitting a range of different models to data. There will be significant practical experience applying different statistical techniques. This programme is accredited by the Royal Statistical Society.

Programme structure
You will study lecture-based and practical, lab-based courses, assessed by exams, written reports and programming assignments, followed by a dissertation, usually in the form of a consultancy-style research project.

COMPULSORY COURSES PREVIOUSLY OFFERED INCLUDE:
- Bayesian Data Analysis
- Bayesian Theory
- Generalised Regression Models
- Incomplete Data Analysis
- Statistical Programming
- Statistical Research Skills

OPTION COURSES PREVIOUSLY OFFERED INCLUDE:
- Biomedical Data Science
- Credit Scoring
- Extreme Computing
- Fundamentals of Operational Research
- Genetic Epidemiology
- Large Scale Optimization for Data Science
- Machine Learning and Pattern Recognition
- Machine Learning in Python
- Nonparametric Regression Models
- Operational Research in the Energy Industry
- Python Programming
- Risk and Logistics
- Statistical Methodology
- Stochastic Modelling
- The Analysis of Survival Data
- Time Series
- Topics in Applied Operational Research
- Topics in Applied Optimization

Career opportunities
Trained statisticians are in high demand due to an increasingly data aware society. We anticipate that the majority of graduates will be employed as statisticians within private and public institutions providing statistical advice/consultancy. The statistical analysis/interpretation and communication skills you will develop and your knowledge of the underlying statistical principles, coupled with practical experience of implementing statistical techniques using standard software across a range of applications, will ensure you are ideally placed for a range of job opportunities or for further study.

Entry requirements
A UK 2:1 degree, or its international equivalent (www.ed.ac.uk/academic规s/graduate-entry), in a numerate discipline such as mathematics, engineering, computer science, physical or biological sciences, economics or business. You must also have studied probability and statistical theory at university level. You can increase your chances of a successful application by exceeding the minimum programme requirements.

English language requirements
See page 20.

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

Programme Director
Dr Bruce Morton
Tel +44 (0)131 650 4884
Email statsmsc@ed.ac.uk
Research at the School of Mathematics

We undertake research in areas of the mathematical sciences, including pure, applied, statistics, operational research and mathematical physics, and provide a stimulating and inspiring environment in which to develop your research career.

The Maxwell Institute for Mathematical Sciences (established in collaboration with Heriot-Watt University in 2003) represents a partnership of more than 70 staff members at both institutions. The Institute pools research from both universities to offer a research and postgraduate training environment that can attract the best mathematics talent from around the world. As a new PhD student, you will be part of the Maxwell Institute Graduate School (MIGS). In Year 1, you will share a common mathematics education, algebra, and computer scientists, interaction with chemists, physicists, biologists, engineers and mathematicians. We have a unique focus on the interplay of classical Euclidean harmonic analysis with applications of harmonic analysis to elliptic and parabolic PDEs with rough coefficients and/or on rough domains. We also study nonlinear hyperbolic, dispersive and kinetic equations and systems arising in the classical field theories of mathematical physics, mathematical biology and, in connection with black holes, mathematical general relativity: free-boundary problems, optimal mass transportation and Monge-Ampère equations in nonlinear elasticity and other continuum theories; and well-posedness for supercritical initial value problems with noisy initial data.

English language requirements
See page 20.

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

Contact Graduate School Administrator
Email pgresearch@maths.ed.ac.uk

See also...
You may find your preferred research area in the prospectus of another School within the University, in particular the University of Edinburgh Business School or the Schools of GeoSciences, Informatics or Physics & Astronomy.

www.ed.ac.uk/studying/prospectus-request
Research opportunities can be carried out as part of the MAC-MIGS integrated programme pgresearch@maths.ed.ac.uk

Most research projects in Applied & Computational Mathematics Additional resources leaders to Edinburgh each year, strengthening our staff and students' seminar and workshop programme brings many international research Through the Maxwell Institute we have many collaborations and shared computing system. The group is strengthened by its involvement in interdisciplinary initiatives and centres including the Alan Turing Institute – the UK’s national data-science hub – the Edinburgh Fluid Dynamics Group, and SynthSys (Synthetic and Systems Biology) which fosters interactions with biologists.

Through the Maxwell Institute we have many collaborations and shared activities with Heriot Watt University, for example the Edinburgh chapter of the Society for Industry and Applied Mathematics (SIAM). A rich seminar and workshop programme brings many international research leaders to Edinburgh each year, strengthening our staff and students' links with the broader community.

Additional resources
Most research projects in Applied & Computational Mathematics can be carried out as part of the MAC-MIGS integrated programme in Mathematical Modelling, Analysis & Computation (see page 13). We encourage all students interested in an Applied & Computational Mathematics PhD to consider applying for MAC-MIGS to take advantage of its fully-funded enhanced research and training programme.

English language requirements See page 20.

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

Contact Graduate School Administrator Email pgresearch@maths.ed.ac.uk

For more information about research in the School of Mathematics, please visit: www.maths.ed.ac.uk/research
Mathematics Education

Our Mathematics Education research group explores the interface between the teaching and learning of mathematics, and the relationships between educational, psychological and subject-matter aspects of this. Our research focuses on the development of effective teaching and learning practices in mathematics and the mathematical content that is taught.

Research environment

Our group is a dynamic and diverse research community that includes both full-time and part-time researchers. We have a strong focus on the development of effective teaching and learning practices in mathematics and the mathematical content that is taught. We also have a strong focus on the development of effective teaching and learning practices in mathematics and the mathematical content that is taught.

Opportunity & Operational Research

The Operational Research Group in the School of Mathematics is known for its interdisciplinary approach to research and teaching. We have a strong record of bringing together experts from a wide range of fields to solve complex problems. Our research focuses on the development of effective teaching and learning practices in mathematics and the mathematical content that is taught.

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Probability & Stochastic Analysis

Our Probability and Stochastic Analysis research group operates in what is perhaps the most widely applied area of mathematics: The financial sector. In particular, a major focus of our research, and graduates with the right research experience can make their way into highly rewarding roles in industry. As part of our research, we also enjoy a research environment that features a balance between theory and practice, access to one of the most powerful computing facilities in the UK and strong links with relevant industries.

Research

Our research focuses on the following themes: stochastic differential equations and stochastic partial differential equations (PDEs) and their applications in nonlinear filtering and stochastic control; applications of stochastic analysis of PDEs, stochastic PDEs and stochastic differential equations (accelerated numerical methods in particular). We are also involved in the applications of probability theory, mainly to mathematical finance, particularly stochastic volatility models, equivalent martingale measures and incomplete markets. Other applications include engineering, signal processing and biological sciences.

Statistics

Statistics is the branch of mathematics that deals with uncertainty and the collection, analysis, interpretation and presentation of data. It is a core element of the newly recognised area of data science, involving the development of new techniques for analyzing data within a rigorous framework. The Statistics research group explores a wide range of statistical theory and practice, applying newly developed techniques in collaboration with researchers in related fields, such as bioinformatics, biostatistics, health, ecology, and geosciences.

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Valuable connections

As a research student, you will find a wealth of expertise available via our links with theorists and practitioners in related fields. For example, the Centre for Statistics, launched in 2017, unites data-driven researchers from across the University of Edinburgh and associated institutions. Several members of the Statistics group are also faculty Fellows of the Alan Turing Institute, the national institute for data science and artificial intelligence, of which the University of Edinburgh is a founding member. The Statistics group also has close links with other Schools across the University, including Informatics, Geosciences and Business. In addition, the Statistical Consultancy Unit within the University and the Scottish Government backed associated research institute Biostatistics and Decision Science (BiOS) both have bases in the same building as the School of Mathematics, providing a broad range of expertise to other researchers with an interest in statistical methodology, bioinformatics, and process and systems modelling. The University of Edinburgh is also a member of the Academy of PhD Training in Statistics (APTS), providing additional residential training in advanced statistical techniques.

Rewarding career options

Many of our graduates take up prestigious positions in high profile financial companies. A large number also pursue careers in academia, while others apply their skills in engineering or biological sciences. Statistics and Operational Research

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About the School of Mathematics

By joining the University of Edinburgh’s School of Mathematics, you’ll follow in the footsteps of mathematical pioneers and study alongside some of the most exciting minds working in the field today.

Whether you wish to follow a taught masters programme or pursue your own line of investigation, we offer a dynamic academic environment, supported by excellent facilities.

We have an outstanding reputation for mathematics teaching and research. We were judged ‘excellent’ in the most recent Teaching Quality Assessment. In the Research Excellence Framework (REF) 2014 we had 85 per cent of our research in mathematical sciences rated either 4* world leading or 3* internationally excellent.

Rich heritage

The School boasts a rich heritage in pioneering mathematics. Our base, the James Clerk Maxwell Building, is named after one of the most celebrated mathematicians and pioneers of mathematics. Our base, the James Clerk Maxwell Building, is named after one of the most celebrated mathematicians and pioneers of international excellence.

The School is home to two Fellows of the Royal Society, 14 Fellows of the Royal Society of Edinburgh and seven Philip Leverhulme Prize or Fellowship holders. Recent prize recipients include Agata Smoktunowicz (European Mathematical Society Prize), Clark Barwick (London Mathematical Society Berwick Prize) and Nick Sheridan (London Mathematical Society Whitehead Prize).

Leaders in their fields

Our status as one of the most prestigious schools in the UK for mathematics attracts highly respected staff. Many of our 90 current academics are leaders in their fields and have been recognised with international awards.

In good company

Mathematics is a discipline of high intellect with connections stretching across all the scientific disciplines and beyond, and in Edinburgh you can be certain of thriving in a rich academic setting. Our School is one of the country’s largest mathematics research communities in its own right which includes around 60 active research students. You will also benefit from Edinburgh’s high-level collaborations, both regional and international. These include the International Centre for Mathematical Sciences and our close collaboration with Heriot-Watt University through the Maxwell Institute, which was set up in 2005 following significant funding from the Scottish Funding Council.

Software support

We provide all our mathematics postgraduates with access to software packages such as Maple, Matlab and Mathematica. Research students are allocated parallel computing time on ‘Eddie’ – the Edinburgh Compute and Data Facility. It is also possible to arrange use of the BlueGene/Q supercomputer facility if your research requires it.

Research students will have a primary and secondary supervisor and the opportunity to network with a large and varied peer group. You will be carrying out your research in the company of eminent figures and be exposed to a steady stream of distinguished researchers from all over the world.

Facilities and resources

You will enjoy excellent facilities, ranging from one of the world’s major supercomputing hubs to generous library provision for research at the leading level, including the Noreen and Kenneth Murray Library at King’s Buildings.

Research students have a primary and secondary supervisor and the opportunity to network with a large and varied peer group. You will be carrying out your research in the company of eminent figures and be exposed to a steady stream of distinguished researchers from all over the world.

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 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 experienced an egalitarian professor-student relationship and felt that student feedback was considered carefully. A number of external guest lecturers from diverse backgrounds in industry and academia enriched the programme with their expertise.”

Michel Zedler, MSc Operational Research
Graduate School
For research students, our Graduate School offers a busy schedule of activities ranging from formal seminars to social events. The Graduate School runs its own website and YouTube channel, which features self-produced videos of lectures.

Student Learning Advisor (SLA)
Your SLA is available to help to offer help and advice on a range of issues connected to your taught postgraduate studies. They may also contact you if the School has concerns about your progress so we can work together to ensure you achieve your full potential. The SLA is the first person to contact if, for any reason, you are not doing as well as you hoped. In addition to your individual meetings with your Personal Tutor, you will have a number of activities with the SLA as part of our personal development programme. This is designed to support your development and your academic progress, career planning and skills development.

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 need to succeed in 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

IAD also provides a comprehensive programme of transferable-skills training, resources and support for researchers completing a doctorate. The workshop programme is designed to help you successfully prepare for the various milestones of your PhD, from getting started with your research, to writing up and preparing for the viva, as well as developing personal and professional skills that can be transferred to your future employment. Workshops cover topics such as writing skills, reference management tools, statistics, preparing for conferences, delivering presentations, time and project management, and personal development. IAD also offers online resources and planning tools to help get your research started, 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. We offer one-to-one career consultations, provide high-quality, tailored support to all students. From exploring career options to making decisions, from CV writing to interview practice, from employability skills and presentation workshops to one-to-one business advice and coaching, IAD and the University’s Careers Service work closely together to maximise the learning experience and outcomes for students.

Platform One
For research students, a strong foundation in the fundamentals of your chosen field is essential and in the early part of your studies you’ll be offered taught courses through the Scottish Mathematical Sciences Training Centre, a consortium of seven mathematics departments. You’ll take part in video-conferenced lectures, presented by staff from all participating universities.

“...the Maths Department is very supportive in organising social events with external experts in the field, which are useful contacts with academics within the University and, which through the daily bustle of the MSc Hub, you’ll also be in the right place in Edinburgh to meet distinguished researchers – from across the world – who are attracted to conferences held at the School, and the various collaborative centres based here. You’ll find opportunities for networking that could have far-reaching effects on your career in mathematics.”

Sarah Farid Khwaja, PhD Mathematics

Community
We are a vibrant community of more than 50 academic and related staff supervising 60 research students, and many more MSc students. While you will be immersed in academic discourse at the highest level, we also offer plenty of opportunities to make new connections, through a full calendar of social events.

You’ll have the chance to meet people through the daily bustle of the MSc Hub common room, subject-specific clubs, the weekly postgraduate colloquium – where students give talks and share cake – and at many annual events, including a residential excursion to Firbush Point on the banks of Loch Tay in Perthshire, where everything from cycling to canoeing is on offer.

There are opportunities to get involved with our new blog, BlogEd, which is written for the School by our students. We also have a talented team of staff and students working on a busy calendar of outreach activities, including the annual Edinburgh International Science Festival. They demonstrate to the wider community that maths is a beautiful, elegant and creative subject, which underpins a huge amount of modern society.

Employability and graduate attributes
While your research will build your knowledge and skills in your chosen field, throughout your programme you’ll also gain expertise and confidence in a number of related areas, such as public speaking, presentation and written communication.

This personal and professional development, supported by services offered by the School and the University, will give you an edge when applying for academic or commercial roles.

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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

A UK 2:1 degree, or its international equivalent (www.ed.ac.uk/international/graduate-entry), in mathematics or another mathematical subject or numerate discipline.

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.

To apply for a research degree you will need a UK first class honours degree, or its international equivalent, in an appropriate subject; or a UK 2:1 honours degree plus a UK masters degree, or their international equivalents; or relevant qualifications and experience.

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 programmes

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, in most cases you will need an offer to study with us before you can make your funding application.

Research programmes

The early deadline for applications is 30th November 2019 and the regular deadline is 31st January 2020. This will enable you to be considered for all of our available funding opportunities. Early applications are encouraged and a limited number of early offers may be made. Late applications will be considered, but priority will be given to applications received by the deadline.

English language requirements

You must demonstrate a level of English language competency at a level that will enable you to succeed in your studies, regardless of your nationality or country of residence. We accept the following English language qualifications at the grades specified:

- IELTS Academic: total 6.5 (at least 6.0 in each module).
- TOEFL: iBT total 92 (at least 20 in each module).
- PTE Academic: 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 qualification must be no more than three and a half years old at the beginning of your programme, unless you are using IELTS, TOEFL, PTE Academic or Trinity ISE, in which case it must be no more than two years old.
- We also accept recent degree-level study that was taught and assessed in English in a majority English-speaking country (as defined by UK Visas & Immigration), or at a university in a non-majority English-speaking country which has specifically been approved by the University of Edinburgh’s Admissions Qualifications Group. A list of approved universities is published on our website. If you are not a national of a majority English speaking country, then your degree must be no more than three and a half years old at the beginning of your programme of study.
- We do not require you to take an English language test before you apply. Please contact the Graduate School Administrator for specific details: pgresearch@maths.ed.ac.uk

Abbreviations: IELTS − International English Language Testing System; TOEFL-IBT − Test of English as a Foreign Language Internet-based Test; PTE − Pearson Test of English; 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 2020.

Please note:

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

Asylum seeker tuition fee status and scholarship

Information for applicants seeking asylum from within the United Kingdom, who wish to commence a programme of study at the University in 2020, is available online. This includes our tuition fee rates and scholarship opportunities: www.ed.ac.uk/student-funding/asylum

Tuition fees for EU students

EU students enrolling in the 2020/21 academic year will be admitted as Scottish/EU fee status students. Taught masters students will be eligible for the same tuition support as Scottish domiciled students from the Student Awards Agency Scotland (SAAS).

For UK/EU students

<table>
<thead>
<tr>
<th>Programme</th>
<th>Annual fee</th>
</tr>
</thead>
<tbody>
<tr>
<td>Taught programmes 1-year FT</td>
<td>£13,000</td>
</tr>
<tr>
<td>Taught programmes 2-years PT</td>
<td>£6,500</td>
</tr>
<tr>
<td>Taught programmes 3-years PT</td>
<td>£4,540</td>
</tr>
<tr>
<td>PhD 3- or 4-years FT</td>
<td>£4,327*</td>
</tr>
<tr>
<td>PhD 6-years PT</td>
<td>£2,164*</td>
</tr>
</tbody>
</table>

* Figure shown is the 2019/20 fee level

All other fees quoted are indicative of 2020/21 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 international students

<table>
<thead>
<tr>
<th>Programme</th>
<th>Annual fee</th>
</tr>
</thead>
<tbody>
<tr>
<td>Taught programmes 1-year FT</td>
<td>£23,950</td>
</tr>
<tr>
<td>Taught programmes 2-years PT</td>
<td>£10,800</td>
</tr>
<tr>
<td>PhD 3- or 4-years FT</td>
<td>£12,975</td>
</tr>
<tr>
<td>PhD 6-years PT</td>
<td>£24,840*</td>
</tr>
</tbody>
</table>

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All other fees quoted are indicative of 2020/21 fee levels. Because these figures are indicative, it is important you check online before you apply and check the up-to-date fee level that will apply to your specific programme: www.ed.ac.uk/student-funding/tuition-fees/postgraduate
Funding

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

Scholarships at the University of Edinburgh

- **China Scholarships Council/University of Edinburgh Scholarships (China)**: A number of scholarships for PhD study to candidates who are citizens and residents of China. Participating schools to be confirmed: www.ed.ac.uk/student-funding/china-council
- **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
- **EPSRC, MAC-MIGS and School of Mathematics Studentships**: All PhD applications will be considered automatically for School of Mathematics studentships. All UK PhD applicants will also be considered automatically for EPSRC DTG funding: edin.ac/maths-pg-funding
- **Principal's Career Development PhD Scholarships**: These provide a valuable opportunity for PhD students to undertake training and skills development and offer opportunities in areas such as teaching, public engagement, entrepreneurship, data science, and research. Each award covers the UK tuition fee and a stipend: www.ed.ac.uk/student-funding/development
- **School of Mathematics MSc funding**: Full and partial School funding of tuition fees and contributions to living expenses is awarded on merit. Select programme from: msc.maths.ed.ac.uk

Research council awards

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

Normally only those UK/EU students who have been resident in the UK for the preceding three years are eligible for a full award. For some awards, candidates who are EU nationals and are resident in the UK may be eligible for a fees-only award. The UK Government has confirmed that EU postgraduate research students commencing their studies in 2020/21 will retain their fee status eligibility and for research council support for the duration of their programme: www.ed.ac.uk/student-funding/research-councils

The University also offers a number of scholarships in partnership with the following overseas government agencies:
- **Mexico**: Banco de Mexico and the Banco de Mexico’s FIDH trust (FIDH): www.fidh.org.mx
- **Fundación Mexicana para la Educación, la Tecnología y la Ciencia (FUNED)**: www.funed.org.mx
- **Pakistan**: Higher Education Commission, Pakistan (HEC): www.hec.gov.pk

Loans available for study at the University of Edinburgh

The University of Edinburgh is a participating institution in the following loans programmes, meaning we certify your student status and can help with the application process.
- **The Canada Student Loans Program**: The University is eligible to certify Canadian student loan applications: www.ed.ac.uk/student-funding/canadian-loans
- **The Erasmus+ Master Loan helps masters students with their living and tuition costs when studying in an Erasmus+ country other than where they live or where they took their first degree. For more information:** erasmusplus.org.uk/master-loan
- **Postgraduate Doctoral Loans England**: Student Finance England offers postgraduate loans for doctoral study, payable to eligible students and divided equally across each year of the doctoral programme: www.gov.uk/postgraduate-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 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.studentfinanceni.co.uk
- **Postgraduate Loans (PGL) Scotland and EU**: Student Finance offers eligible students tuition fee loans for taught and research programmes at diploma and masters level, which will be paid directly to the University. Full-time students resident in Scotland can also apply for a non-income assessed living cost loan: www.sas.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/cscs.uk
- **Marshall Scholarships (USA)**: Scholarships available to outstanding US students wishing to study at any UK university for at least two years: www.marshallscholarship.org
Campus map

The School of Mathematics is situated in the James Clerk Maxwell Building at the University’s King’s Buildings campus, which is about two miles south of the city centre and well served by buses.

Contact us
For more information on our taught MSc programmes, please email:
- Computational Applied Mathematics cammsc@ed.ac.uk
- Computational Mathematical Finance cmfmsc@ed.ac.uk
- Financial Mathematics macppenquiries@hw.ac.uk
- Financial Modelling & Optimization fmomcs@ed.ac.uk
- Operational Research ormcs@ed.ac.uk
- Statistics & OR/with Data Science statsmsc@ed.ac.uk

For more information about the application and admissions process for taught MSc programmes, contact:
College of Science & Engineering Recruitment and Admissions Team
Tel: +44 (0)131 650 5737
www.ed.ac.uk/science-engineering/undergraduate-or-postgraduate-taught-enquiries

For more information on postgraduate research, contact:
Graduate School Administrator
Tel: +44 (0)131 650 5085
Email: pgresearch@maths.ed.ac.uk

For MAC-MIGS information, please visit: www.mac-migs.ac.uk

Visit us
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 13 November 2019. For more information, visit: www.ed.ac.uk/postgraduate-open-day

If you are interested in visiting the School outside the Open Day system as an individual, you are encouraged to contact any relevant member of staff directly to arrange a meeting or an informative video chat. Larger groups should contact the School to arrange a visit: queries@maths.ed.ac.uk

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

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

Chat online
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

For international students, Edinburgh Global also offers regular online chats. To find out more: www.ed.ac.uk/international/chat-to-us-online
On 23 June 2016 the UK electorate voted in a national referendum to leave the European Union. EU postgraduate taught students enrolling in the 2020/21 academic year will be admitted as Scottish/EU fee status students and eligible for the same tuition support as Scottish domiciled students for the duration of their studies. This will still be the case in the event of a Brexit no deal scenario. 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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