“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 Research and Innovation (ERI) promotes and commercialises our research excellence and can assist you in taking the first step to market, through collaborative research, licensing technology or consultancy.

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

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

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

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

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

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

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

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

* Research Excellence Framework (REF) 2014
** Latest Emerging Global Employability University Ranking

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.

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

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

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

As the largest grouping of geoscientists in the UK, we are uniquely placed to offer more than 20 innovative taught masters programmes and certificates spanning the entire spectrum of the geosciences field.

We pay close attention to changes in the market and to scientific developments, ensuring our offering is up to date and that our programmes are designed with the ever-changing needs of our students at the forefront of mind. We have recently launched MSc programmes in Sustainable Plant Health, and Energy, Society & Sustainability, as well as an online distance learning opportunity in Carbon Management. We are also pleased to once again offer MSc Geographical Information Science (GeoSci) & Archaeology. Our growing range of postgraduate taught programmes allows you to benefit from cutting-edge research knowledge and skills training in your selected subject and beyond.

Flexibility

While each programme has compulsory courses which provide its framework, the School offers a wide range of option courses from which you can complete the credits required for your MSc. The Programme Director will proactively assist you in making the most of your course selection. Recommended options are included in each programme entry in this prospectus to allow you to see the scope for focus on areas which particularly interest you.

We are committed to supporting those already in employment or with family commitments and most of our MSc programmes can be studied part time across two or three years.

Online distance learning

The University of Edinburgh is the biggest provider of online distance learning in the Russell Group. Just like our on-campus provision, all of our online programmes are delivered by dedicated academics, many of whom are leaders in their field. Our Postgraduate Certificates in Climate Change Management, Carbon Innovation, Global Environment Management, Challenges, and the online version of our award-winning MSc Carbon Management are flexible options if you prefer to study at home because of professional or family commitments.

Field trips

A number of our programmes incorporate residential field trips and day excursions that really enhance your learning experience and enable you to put valuable research and vocational skills into practice. Recent destinations include Tanzania (MSC Ecological Economics), France (MScs in Soils & Sustainability and Environmental Protection & Management), Italy (BSc Food Security), the southern European coastline, the Cairngorms (MSC Ecosystem Services) and the Maldives (MSC Marine Systems & Policies).

Dissertation

After completing the taught component of your programme, you will complete a dissertation. With direction from your Programme Director and dissertation supervisor, you will be encouraged to develop your own research focus or to select from a range of unit projects made available by academic staff from across the School and through links with industry partners or external organisations. The School offers publication prizes for the top dissertations each year.

Collaborations

The city of Edinburgh is a genuine hub for geosciences with a high concentration of businesses and other organisations working in the field. Our taught programmes are strengthened through collaborations with a range of internal and external partners, including the University of Edinburgh Business School, the Schools of History, Classics & Archaeology, and Social & Political Science, and Scotland’s Rural College (SRUC).

The majority of our taught masters programmes enjoy an affiliation with the University’s Global Environment & Society Academy: www.ed.ac.uk/global-environment-society

We are additionally privileged to host lectures by representatives from government organisations and industry, who contribute to our programmes, courses and dissertation supervision, providing you with the skills and contacts needed to fulfil your ambitions.

Each year the School hosts a Research Practitioner Mixer event designed to facilitate networking between you and a range of internal and external partners. Many students meet dissertation supervisors at this event or forge useful connections for future employment opportunities.

Programme description

This is the only programme of its kind in the UK, giving you high-level skills and training across the rapidly developing area of carbon capture and storage (CCS).

Global energy demands are still rising, and fossil fuels remain central to meeting these demands in the medium term. CCS is a recognised solution to reducing CO2 emissions until fossil fuels are entirely replaced by renewable energy technologies. With commercial trials under way, countries and industries are investing in this new technology. In the UK, all existing power stations must have a full-scale retrofit of CCS within five years of the technology being independently judged as technically and commercially proven.

This MSc draws on our world-class interdisciplinary academic research and the insights we have gained from projects involving our industrial stakeholders.

Programme structure

The MSc has two semesters of lectures and practical classes, followed by a research dissertation. The programme includes industry guest lectures as well as opportunities for fieldwork and industry visits to a range of locations. Designed for graduates of engineering or geoscience-related subjects, the programme provides you with high-level skills and training in the entire value chain of CCS, including combustion, transport, geoscience and legal aspects.

RECOMMENDED OPTION COURSES

In consultation with the Programme Director, you will choose from a range of option courses. We have previously offered: Fundamentals for Remote Sensing; Novel Strategies for Carbon Storage in Soil; Seismic Reflection Interpretation; Energy & Society; Geology for Earth Resources; Principles of Geographical Information Science; Understanding Environment and Development; Climate Change & Corporate Strategy; Energy Policy and Politics; Hydrocarbon Reservoir Quality; Introduction to Radar Remote Sensing; Political Ecology; Separation Processes For Carbon Capture; Technology and Innovation Management.

Career opportunities

Graduates can enter into all manner of jobs due to the transferable and highly desirable nature of the skills gained. Typically our graduates pursue careers in business, industry, government and non-governmental organisations in the field of low carbon energy production.

Entry requirements

A UK 2:1 honours degree, or its international equivalent (www.ed.ac.uk/ internationalgraduate-entry) in any subject. We will also take any professional experience into account.

English language requirements

See page 28.

Fees and funding

For fees see page 28 and for funding information see page 30.

Programme Director Dr Mark Wilkinson
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Email mark.wilkinson@ed.ac.uk

www.ed.ac.uk/pg/518

Carbon Capture & Storage

MSc 1 yr FT (2 yrs or 3 yrs PT available for UK/EU students)

Programme description

Based upon our highly successful on-campus MSc Carbon Management, this online programme uses a blend of interactive content, videos, virtual case studies and weekly online discussions to explore the economics and policy of climate change management. You will gain a detailed understanding of the economics of climate change, carbon footprinting, ecosystem valuation, energy systems and energy policy through the interdisciplinary nature of the programme.

This programme is designed for graduates with a passion for tackling climate change and who require the flexibility that online learning provides. The programme is affiliated with the University's Global Environment & Society Academy (GESA): www.ed.ac.uk/global-environment-society

Programme structure

This certificate may be studied as a standalone qualification. Alternatively, it may form one third of the online MSc Carbon Management, or half of the new online diploma in Carbon Management.

See also...

You may also be interested in taught postgraduate programmes offered by other Schools within the University, particularly the University of Edinburgh Business School and the School of Engineering.

See page 28.

Fees and funding

For fees see page 28 and for funding information see page 30.

Programme Director Professor David Reay
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Email david.reay@ed.ac.uk

www.ed.ac.uk/pg/904

Carbon Innovation

PgCert 1 yr PT

Programme description

Based upon our highly successful on-campus MSc Carbon Management, this online programme uses a blend of interactive content, videos, virtual case studies and weekly online discussions to explore the economics and policy of climate change management. You will gain a detailed understanding of the economics of climate change, carbon footprinting, ecosystem valuation, energy systems and energy policy through the interdisciplinary nature of the programme.

This programme is designed for graduates with a passion for tackling climate change and who require the flexibility that online learning provides. The programme is affiliated with the University’s Global Environment & Society Academy (GESA): www.ed.ac.uk/global-environment-society

Programme structure

This certicate may be studied as a standalone qualification. Alternatively, it may form one third of the online MSc Carbon Management, or half of the new online diploma in Carbon Management.

See page 28.

Fees and funding

For fees see page 28 and for funding information see page 30.
The MSc in Carbon Management is a landmark collaboration between the world renowned Schools of Geosciences, Economics and the Business School at the University of Edinburgh. It provides you with the expertise, knowledge and skills in the business, economics and science of carbon management. MSc Carbon Management is ranked in the top 10 World’s Best Masters in Sustainable Development and Environmental Management (Eduniversal Masters Ranking 2014–15). Carbon management is now at the heart of tackling climate change and has rapidly become a central part of the global business environment. Edinburgh has emerged as one of the most important global centres in this new discipline. This innovative programme, taught by world-leading experts in key fields of climate change and carbon management, is for graduates who want an advanced academic qualification to launch careers in carbon and climate change management in business or government.

Programme structure
This programme consists of two semesters of taught courses. Each course consists of a balance of lectures, seminars, workshops and visits. You will then undertake individual dissertation project work.

COMPULSORY COURSES PREVIOUSLY OFFERED INCLUDE:
- Climate Change Impacts and Adaptation: Business and Climate Change
- Carbon Economics: Climate Change Management: Applied Carbon Methods; Dissertation

RECOMMENDED OPTION COURSES
In consultation with the Programme Director, you will choose from a range of option courses. We have previously offered:

Career opportunities
A key strength of our programme is the employability of our graduates. The programme, which has won the PricewaterhouseCoopers award for ‘Teaching Employable Skills,’ provides the opportunity to conduct business carbon audits, work on placements with major industry groups such as the 2020 Climate Group, and conduct dissertation research as part of work-based projects with a wide range of external collaborators. Our graduates are enjoying roles ranging from government advisers and NGO researchers, to renewable energy project developers and commercial carbon management consultants. To see what more than 100 of our alumni are now doing, visit: www.geos.ed.ac.uk/home/dream/mascarbon.html

Entry requirements
A UK 2.1 honours degree, or its international equivalent (www.ed.ac.uk/ international/graduate-entry), in either economics, management, social sciences, physical sciences, geology, geography, environmental sciences, astronomy, biology, health sciences, chemistry, earth sciences, physics, engineering, business administration, or accounting and finance.

English language requirements
See page 28.

Fees and funding
For fees see page 28 and for funding information see page 30.

Programme Director
Dr Simon Shackley
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www.ed.ac.uk/pg/412

The University of Edinburgh
GeoSciences Postgraduate Opportunities 2017

www.ed.ac.uk/global-environment-society

Carbon Management
MSc 1 yr FT (2.3 yrs PT available for UK/EU students)

Programme description
The MSc in Carbon Management is a landmark collaboration between the world renowned Schools of GeoSciences, Economics and the Business School at the University of Edinburgh. It provides you with the expertise, knowledge and skills in the business, economics and science of carbon management. MSc Carbon Management is ranked in the top 10 World’s Best Masters in Sustainable Development and Environmental Management (Eduniversal Masters Ranking 2014–15). Carbon management is now at the heart of tackling climate change and has rapidly become a central part of the global business environment. Edinburgh has emerged as one of the most important global centres in this new discipline. This innovative programme, taught by world-leading experts in key fields of climate change and carbon management, is for graduates who want an advanced academic qualification to launch careers in carbon and climate change management in business or government.

Programme structure
This programme consists of two semesters of taught courses. Each course consists of a balance of lectures, seminars, workshops and visits. You will then undertake individual dissertation project work.

COMPULSORY COURSES PREVIOUSLY OFFERED INCLUDE:
- Climate Change Impacts and Adaptation: Business and Climate Change
- Carbon Economics: Climate Change Management: Applied Carbon Methods; Dissertation

RECOMMENDED OPTION COURSES
In consultation with the Programme Director, you will choose from a range of option courses. We have previously offered:

Career opportunities
A key strength of our programme is the employability of our graduates. The programme, which has won the PricewaterhouseCoopers award for ‘Teaching Employable Skills,’ provides the opportunity to conduct business carbon audits, work on placements with major industry groups such as the 2020 Climate Group, and conduct dissertation research as part of work-based projects with a wide range of external collaborators. Our graduates are enjoying roles ranging from government advisers and NGO researchers, to renewable energy project developers and commercial carbon management consultants. To see what more than 100 of our alumni are now doing, visit: www.geos.ed.ac.uk/home/dream/mascarbon.html

Entry requirements
A UK 2.1 honours degree, or its international equivalent (www.ed.ac.uk/ international/graduate-entry), in either economics, management, social sciences, physical sciences, geology, geography, environmental sciences, astronomy, biology, health sciences, chemistry, earth sciences, physics, engineering, business administration, or accounting and finance.

English language requirements
See page 28.

Fees and funding
For fees see page 28 and for funding information see page 30.

Programme Director
Professor David Reay
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Email david.reay@ed.ac.uk

www.ed.ac.uk/pg/899

Carbon Management
MSc 3 yrs PT (2 yrs accelerated study)
Pgdip 2 yrs PT (1 yr accelerated study)

Programme description
Our online MSc Carbon Management is a groundbreaking development of the award winning campus based MSc Carbon Management programme. Building on the proven success and content of the established residential programme, this new online programme provides you with high level knowledge, skills and training in the business, economics and science of carbon management. The programme is designed for graduates who want an advanced academic qualification in tackling climate change management by business, industry, NGOs and government, with the flexibility that online learning provides. The programme is affiliated with the University’s Global Environment & Society Academy (GESA): www.ed.ac.uk/global-environment-society

Programme structure
The programme is organised into three component certificates:
- PgCert Climate Change Management
- PgCert Carbon Innovation
- PgCert Applied Carbon Methods (you must successfully complete both other certificates before taking this final component)

You will graduate with the postgraduate diploma if you take only the first two components.

COMPULSORY COURSES PREVIOUSLY OFFERED INCLUDE:
- Climate Change Impacts and Adaptation; Climate Change Mitigation; Climate Change & Corporate Responsibility; Carbon Economics; Climate Change Measurement; Energy & Climate; Applied Carbon Methods; Dissertation.

Studying online
As a student of one of our online programmes, you will:
- have the flexibility to study when most convenient for you;
- be able to study anywhere with an internet connection;
- have access to all University services and relevant academics;
- become part of a rich and varied online community; and
- learn the latest developments from people working at the leading edge in your field.

To try our Virtual Learning Environment, please visit our demo: http://demo.climate.ed.ac.uk

Career opportunities
Our existing MSc Carbon Management boasts excellent relationships with relevant employers, as well as a great alumni network covering more than 25 countries, and provides unrivalled opportunities to collaborate on research projects and find new positions in the field of carbon management. The main employment opportunities for our graduates are in climate change consultancy, renewable energy and carbon management project development, or as government or NGO climate change advisors. Several of our graduates are now studying for climate change focused PHDs.

Entry requirements
A UK 2.1 honours degree, or its international equivalent (www.ed.ac.uk/ international/graduate-entry) in any subject. We will also take any professional experience into account.

English language requirements
See page 28.

Fees and funding
For fees see page 28 and for funding information see page 30.

Programme Director
Professor David Reay
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www.ed.ac.uk/geosciences
Climate Change Management

PgCert 1 yr PT

Programme description
Based upon our highly successful on-campus MSc Carbon Management, this online programme utilises a blend of interactive content, videos, virtual and real world discussions to explore the science and business responses to climate change. We examine the leading ways in which this global challenge can be addressed, covering adaptation and mitigation solutions across a wide range of sectors and regions. The programme is designed for those who have a passion for tackling climate change and who require the flexibility that online learning provides.

This programme is affiliated with the University’s Global Environment & Society Academy (GESA); www.ed.ac.uk/global-environment-society

Programme structure
The programme comprises three compulsory courses that move from the science of climate change and its impacts, through the key adaptation and mitigation solutions, to examination of the business response to climate change, and the risks and opportunities it presents. This certificate may be studied as a standalone qualification. Alternatively it may form one of three of the online MSc Carbon Management, or half of the new online diploma in Carbon Management.

COMPELLARY COURSES PREVIOUSLY OFFERED INCLUDE:
Climate Change Impacts & Adaptation; Climate Change Mitigation; Climate Change & Corporate Responsibility.

Studying online
As a student of one of our online programmes, you will:
• have the flexibility to study when most convenient for you;
• be able to study at a pace to suit you;
• have access to all University services and relevant academics;
• become part of a rich and varied online community of people; and
• learn the latest developments from people working at the leading edge in your field.

To try our Virtual Learning Environment, please visit our demo site:
http://vledemo.ed.ac.uk

Career opportunities
Our existing MSc Carbon Management boasts excellent relationships with relevant employers, as well as a great alumni network covering more than 25 nations, and provides unrivalled opportunities to collaborate on research projects and find new positions in the field of climate change management. The main employment opportunities for our graduates are in the field of carbon management, but include job roles and training programmes with organisations such as Amey Infrastructure Services, British Airways, ESRI, sectors. Our GIS graduates have entered employment with well known multinationals; environmental education and research. Recent graduates have gone on to roles such as environmental analyst, researcher, landscape consultant, agricultural economist, model and resource economist, for employers such as DEFRA, Carbon 360, Conservation International, Scottish Water and ADAS. Around a quarter of our graduates go on to doctoral research.

Field trips
This programme includes a residential project management and field skills weekend in the Scottish Highlands.

Career opportunities
Graduates will benefit from our proven track record in placing students with a diverse range of employers in the public, private and third sectors. Our GIS graduates have entered employment with well known organisations such as Army Infrastructure Services, British Airways, ESRI, General Electric, Google, Hewlett-Packard, Intergraph, Microsoft, Oracle, The Royal Bank of Scotland, Scottish Water, Sopra Group, SLR Consulting, Food and Agricultural Organisation of the United Nations and the World Bank, as well as working in academia.

Entry requirements
A UK 2.1 honours degree, or its international equivalent (www.ed.ac.uk/international/student-entry), in any subject. We will also take any professional experience into account.

English language requirements
See page 28.

Fees and funding
For fees see page 28 and for funding information see page 30.

Programme Director
Professor Iain Woodhouse
Email: i.woodhouse@ed.ac.uk

Earth Observation & Geoinformation Management

MSc 1 yr FT (2 yrs or 3 yrs available for UK/EU students)

Programme description
This interdisciplinary programme will equip you with the analytical and communication skills to work in this important and growing field. It will suit both those already developing skills in environmental or geographical sciences who have already come across remote sensing, or those with a background in physics, computer science or engineering looking for a career in applied area. Graduates from the programme will be well prepared to pursue a research degree or find relevant employment.

This programme builds on our successful Geographical Information Science (GIS) degree, which has the first of its type in the world, with a heritage of almost 30 years.

Programme structure
The programme consists of two semesters of taught courses followed by individual dissertation project work.

COMPELLARY COURSES PREVIOUSLY OFFERED INCLUDE:

RECOMMENDED OPTION COURSES
In consultation with the Programme Director, you will choose from a range of option courses. We have previously offered:
- Semester 1: Ecosystem Dynamics and Functions; Principles of Environmental Sustainability; Marine Systems and Policies; Atmospheric Quality and Global Change; Object Oriented Software Engineering Principles; Object Oriented Software Engineering: Design and Patterns; Principles of GIS; Principles of GIS for Archaeologists; Principles of Environmental Sustainability; Sustainable Energy Technologies; Marine Systems and Policies; Technologies for Sustainability: Introduction to Three Dimensional Climate Modelling; Advanced Spatial Database Methods; Data Integration and Exchange; Data Mining and Exploration; Environmental Impact Assessment; Forests and Environment; Further Spatial Analysis; ICT for Development; Integrated Resource Planning; Land Use/Environmental Interactions; Querying and Storing Mli; Water Resource Management; Participation in Policy and Planning; Introduction to Environmental Modelling; Management of Sustainable Development; Ecosystem Services; Business Geographic.
- Semester 2: Ecosystem Values and Management; Forests and Environmental Insecurity and Environmental Change; Participation in Policy and Planning; Waste Reduction and Recycling; Water Resource Management; Political Ecology; Energy and Society; Case Studies in Sustainable Development; Integrated Resource Planning Planning; Environmental Impact Assessment; Sustainability of Food Production; Understanding Environment and Development.

Field trip
This includes a trip to Canada, the USA and South America.

Field trip
This programme includes a residential project management and field skills weekend in the Scottish Highlands.

Career opportunities
Identify social, economic and environmental risks, and opportunities, and developments in the tourism sector. Graduates have gone on to roles such as environmental analyst, researcher, landscape consultant, agricultural economist, model and resource economist, for employers such as DEFRA, Carbon 360, Conservation International, Scottish Water and ADAS. Around a quarter of our graduates go on to doctoral research.

Entry requirements
A UK 2.1 honours degree, or its international equivalent (www.ed.ac.uk/international/student-entry), in any subject. We will also take any professional experience into account.

English language requirements
See page 28.

Fees and funding
For fees see page 28 and for funding information see page 30.

Programme Director
Professor Iain Woodhouse
Email: i.woodhouse@ed.ac.uk

Economic Geography

MSc 1 yr FT (2 yrs or 3 yrs available for UK/EU students)

Programme description
This interdisciplinary programme follows a collaborative with Scotland’s Rural College. It focuses on how to make sustainability and environmental management work in practice by applying economic principles. Graduates with this postgraduate training are in greater demand than ever before.

Programme structure
You will learn through lectures, group work, informal group discussion and individual projects, as well as the spring study tour. After two semesters of taught courses, you will begin work on your individual dissertations. The MSc degree, which includes a wide selection of option courses to suit individual interests and career goals.

COMPELLARY COURSES PREVIOUSLY OFFERED INCLUDE:
Frameworks in Ecological Economics; Applications in Ecological Economics; Environmental Valuation; Dissertation.

RECOMMENDED OPTION COURSES
In consultation with the Programme Director, you will choose from a range of option courses. We have previously offered:
- Semester 1: Ecosystem Dynamics and Functions; Principles of Environmental Sustainability; Marine Systems and Policies; Atmospheric Quality and Global Change; Object Oriented Software Engineering Principles; Object Oriented Software Engineering: Design and Patterns; Principles of GIS; Principles of GIS for Archaeologists; Principles of Environmental Sustainability; Sustainable Energy Technologies; Marine Systems and Policies; Technologies for Sustainability: Introduction to Three Dimensional Climate Modelling; Advanced Spatial Database Methods; Data Integration and Exchange; Data Mining and Exploration; Environmental Impact Assessment; Forests and Environment; Further Spatial Analysis; ICT for Development; Integrated Resource Planning; Land Use/Environmental Interactions; Querying and Storing Mli; Water Resource Management; Participation in Policy and Planning; Introduction to Environmental Modelling; Management of Sustainable Development; Ecosystem Services; Business Geographic.
- Semester 2: Ecosystem Values and Management; Forests and Environmental Insecurity and Environmental Change; Participation in Policy and Planning; Waste Reduction and Recycling; Water Resource Management; Political Ecology; Energy and Society; Case Studies in Sustainable Development; Integrated Resource Planning Planning; Environmental Impact Assessment; Sustainability of Food Production; Understanding Environment and Development.

Field trip
To experience and understand conflict between ecosystem conservation and human development needs at ground level, we offer a unique and ten day tour, usually overseas and in the developing world (previous destinations have included Kenya, Tanzania, and South Africa).

Career opportunities
Identify social, economic and environmental risks, and opportunities, and developments in the tourism sector. Graduates have gone on to roles such as environmental analyst, researcher, landscape consultant, agricultural economist, model and resource economist, for employers such as DEFRA, Carbon 360, Conservation International, Scottish Water and ADAS. Around a quarter of our graduates go on to doctoral research.

Entry requirements
A UK 2.1 honours degree, or its international equivalent (www.ed.ac.uk/international/student-entry), in any subject. We will also take any professional experience into account.

English language requirements
See page 28.

Fees and funding
For fees see page 28 and for funding information see page 30.

Programme Director
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Ecosystem Services

MSc 1 yr FT (2 yrs or 3 yrs available for UK/EU students)

Programme description
This programme enables you to undertake a critical analysis of how ecosystems benefit humanity, and how we tend to reshape, over-exploit and then replace natural systems on which we depend. You will learn to identify and assess the multiple trade-offs involved in our use of the environment, paying close attention to social, economic and ecological concerns both at local and global scales. This programme addresses the growing demand for graduates who can effectively integrate natural and social science perspectives in environmental management, in order to inform and support policy-making in a range of organisations.

COMPELLARY COURSES PREVIOUSLY OFFERED INCLUDE:
Ecosystem Dynamics and Functions; Analysing the Environment; Ecosystems, Managing and Monitoring; Analysing the Environment Tour; Research Project in Ecosystem Services.

RECOMMENDED OPTION COURSES
In consultation with the Programme Director, you will choose from a range of option courses. We have previously offered: Environmental Valuation, Climate Change and Corporate Strategy; Environmental Geochemistry; Foundations in Ecological Economics; Frameworks to Assess Food Security; Integrated Resource Management; Principles of Environmental Sustainability; Human Dimensions of Environmental Change and Sustainability; Principles of Geographical Information Science; Frameworks for Remote Sensing; Soil Protection and Management; Values and the Environment; Marine Systems and Policies; Research Skills in the Social Sciences; Data Collection; Understanding Environmental Sustainability; Assessing Ecosystems and Societies; Forests and Environment; Hyperspectral Remote Sensing; Integrated Resource Planning: Introduction to Radar Remote Sensing; Land Use/Environmental Interactions; Participation in Policy and Planning; Political Ecology; Soil Science Concepts and Application; Sustainability of Food Production; Water Resource Management and Water Recycling; Energy & Society; Novel Strategies for Carbon Storage in Soil; Applications in Ecological Economics; Research Design.

Field trip
A residential field trip to the Cairngorms National Park (Scotland) will develop your practical experience and skills.

Career opportunities
Identify social, economic and environmental risks, and opportunities, and developments in the tourism sector. Graduates have gone on to roles such as environmental analyst, researcher, landscape consultant, agricultural economist, model and resource economist, for employers such as DEFRA, Carbon 360, Conservation International, Scottish Water and ADAS. Around a quarter of our graduates go on to doctoral research.

Entry requirements
A UK 2.1 honours degree, or its international equivalent (www.ed.ac.uk/international/student-entry), in a relevant subject in the natural sciences or the social sciences or in another relevant subject.

English language requirements
See page 28.

Fees and funding
For fees see page 28 and for funding information see page 30.

Programme Director Dr Janet Fisher
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The world is facing an ‘energy trilemma’ – how to achieve energy security, energy equity and environmental sustainability. Taught by a team of energy researchers in Geosciences and Social & Political Science, this novel programme will equip you with a critical understanding of how energy systems, low-carbon technologies, policies and markets are interlinked. It will draw on social theory and empirical evidence to understand the social and societal challenges and implications of different energy transition pathways for developed and developing countries. Scotland is a world leader in renewable electricity generation, while also economically dependent on declining North Sea oil and gas and suffering from high levels of energy poverty. Field trips and guest speakers will help you understand the energy trilemma from different angles, understand the links between global and local issues, explore international best practices and identify the scope for socio-technical innovations in different biophysical, political and cultural settings.

Programme structure

The full-time programme comprises taught courses, a field trip and a dissertation.

COMPULSORY COURSES PROPOSED INCLUDE:

Energy & Society (Themes and Issues); Energy in the Global South; Energy & Society II (Methods and Applications); Energy Policy and Politics.

RECOMMENDED OPTION COURSES

Our option courses are organised according to six thematic areas: public policy; low carbon design in human geography; wealth; marine systems and policies; EU and National Climate Change Law; International Politics; Understanding the Roots of Poverty and Development; Atmospheric Quality and Global Change; Covering Mineral Extraction in Africa; Introduction to Spatial Analysis; Principles of Environmental Sustainability; Soil Protection and Management; Environmental Impact Assessment; Ecosystem Services 2: Forests and Environment; Gender and Development: Understanding the Roots of Poverty and Development; Global Environmental Politics; Land Use/Environmental Interactions; Participation in Policy and Planning; Political Ecology; Sustainability of Food Production; Waste Reduction and Recycling; Water Resource Management; Marine Infrastructure and Environmental Change; Anthropology and the Environment; Case Studies in Sustainable Development; Integrated Water Management; Interdisciplinary Environmental Interactions; Participation in Policy and Planning; Land Use/Environmental Interactions; Participation in Policy and Planning; Political Ecology; Sustainability of Food Production; Waste Reduction and Recycling; Water Resource Management; Marine Infrastructure and Environmental Change; Anthropology and the Environment; Case Studies in Sustainable Development; Integrated Water Management; Interdisciplinary Environmental Interactions; Participation in Policy and Planning; Political Ecology; Sustainability of Food Production; Waste Reduction and Recycling; Water Resource Management; Marine Infrastructure and Environmental Change; Anthropology and the Environment; Case Studies in Sustainable Development; Integrated Water Management; Interdisciplinary Environmental Interactions; Participation in Policy and Planning; Political Ecology; Sustainability of Food Production; Waste Reduction and Recycling; Water Resource Management; Marine Infrastructure and Environmental Change; Anthropology and the Environment; Case Studies in Sustainable Development; Integrated Water Management; Interdisciplinary Environmental Interactions.

Field trip

A week long residential field trip to the Orkney Islands will develop your practical experience and skills in energy research in communities that are at the forefront of the transition to low carbon ‘smart grids’.

Career opportunities

UK research councils cite a major skills gap in the energy sector, one of the biggest growth sectors within the global economy in recent years. Demand has never been higher for sound evidence on behavioural change, public engagement with energy issues, and public support for community and commercial investments in low carbon energy generation. We train you to translate complex science into effective policies and new business opportunities. We have strong links with government departments, energy NGOs and key industry players who want to make use of these skills. Committed to helping you meet prospective employers and network with those active in the field, we organise careers events and encourage dissertations conducted in partnership with external organisations.

Entry requirements

A UK 2:1 honours degree, or its international equivalent (www.ed.ac.uk) international graduate-entry. In natural or social sciences or a similar subject.

English language requirements

See page 28.

Fees and funding

For fees see page 28 and for funding information see page 30.

Programme Director

Dr Dan Van der Horst
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www.ed.ac.uk/pg/30
Environmental Protection & Management

MSc 1 yr FT (2 or 3 yrs PT available for UK/EU students)

Programme description

This programme is in collaboration with Scotland’s Rural College. Human activities are recognised as having an increasingly significant affect on the Earth’s biosphere. Our use of natural resources, deforestation, soil erosion, the release of potentially toxic compounds and pathogens, and the increase in greenhouse gases are all examples of pressures that have potentially serious consequences for humanity and other life on Earth. This programme will give you a fundamental understanding of the issues affecting the Earth enabling you to play a vital role in devising and enacting strategies to protect and conserve the environment, both in Europe and beyond.

Programme structure

This programme involves two semesters of taught courses, in a balance of lectures, seminars, workshops and skills, plus a research dissertation.

RECOMMENDED OPTION COURSES

In consultation with the Programme Director, you will choose from a range of option courses. We have previously offered: Environmental Impact Assessment; Soil Protection and Management; Integrated Resource Management: Waste Reduction and Recycling; Marine Systems and Policies; Introduction to Environmental Modelling; Archives: History, Geography, Politics; Carbon Capture and Transport; Encountering Cities; Foundations in Ecological Economics; Human Dimensions of Environmental Change and Sustainability; Principles of GIS. Project Appraisal; Understanding Environment and Development; Values and the Environment; Sustainability of Food Production; Participation in Policy and Regulated Resource Management; Marine Systems and Policies; Participation in Policy and Planning; Political Ecology; Ecosystem Values and Management; Soil Science Concepts and Application; Water Resource Management.

Field trip

Part of this programme is a week-long study tour in spring. Past study tours have been held in France, Greece, Portugal, Israel and Morocco.

Career opportunities

Our graduates often find employment in the environmental sector or choose further study, for example a PhD. Recent graduates are working in roles such as environmental protection officer, coral reef fieldwork leader and planning consultant for employers such as SEPA, Tullian Energy and the Archipelagos Institute of Marine Conservation. There are consultancy opportunities with environmental regulators, government and NGOs.

Entry requirements

A UK 2.1 honours degree, or its international equivalent (www.ed.ac.uk/ international/graduate-entry), in biological science, environmental science, physical science, geography, engineering, economics or other relevant subject. We may also consider a UK 2.2 honours degree, or its international equivalent, with relevant industry experience.

English language requirements

See page 28.

Fees and funding

For fees see page 28 and for funding information see page 30.

Programme Director

Dr Alistair Hamilton
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Environmental Sustainability

MSc 1 yr FT (2 yrs or 3 yrs available for UK/EU students)

Programme description

Enabling the environmental sustainability of society is one of the major challenges facing humanity in the 21st century. How can the needs of human populations be met without threatening the ecological processes that support human wellbeing? How can the economy and energy systems be restructured to combat climate change and improve sustainability? How can the necessary changes in the behaviour of organisations and individuals be promoted? This programme explores these amongst other related, topical questions. In this programme you will be encouraged to think across different disciplines to blend scientific, socio-economic and policy perspectives for a more integrated understanding of sustainability and how it can be achieved. This integrated and holistic understanding is attractive to organisations which promote sustainable development or seek to reduce humanity’s effect on the environment.

Programme structure

This programme consists of six taught courses, studied over two semesters. You will also undertake a research project leading to a dissertation.

RECOMMENDED OPTION COURSES

In consultation with the Programme Director, you will choose from a range of option courses. We have previously offered: Principles of Environmental Sustainability: Case Studies in Sustainable Development; Dissertation.

RECOMMENDED OPTION COURSES

In consultation with your Personal Tutor, you will choose from a range of option courses. We have previously offered: Atmospheric Environment and Development; Principles and Practices; Ecosystem Dynamics and Functions; Ecosystem Management; Human Dimensions of Environmental Change and Sustainability; Principles of GIS; Project Appraisal; Understanding Environment and Development; Values and the Environment; Sustainability of Food Production; Participation in Policy and Regulated Resource Management; Carbon Capture and Transport; Encountering Cities; Foundations in Ecological Economics; Human Dimensions of Environmental Change and Sustainability; Principles of GIS. Project Appraisal; Understanding Environment and Development; Values and the Environment; Sustainability of Food Production; Participation in Policy and Planning; Political Ecology; Ecosystem Values and Management; Soil Science Concepts and Application; Water Resource Management.

Field trip

Part of this programme is a week-long study tour in spring. Past study tours have been held in France, Greece, Portugal, Israel and Morocco.

Career opportunities

You will be prepared for roles within environmental consultancy, national and local government, non-profit organisations, education or research. Your choice of option courses and dissertation project can be used to tailor your studies to support your intended career path. Recent graduates are employed in sustainability related roles by organisations such as AMEC, Carnegie Wave Energy, E.ON, ERDF, German Council for Sustainable Development, Global Justice Now, Institute for European Environmental Policy, International Energy Agency, London Borough of Camden, Marine Conservation Society, Northumbrian Water Group, OECD, Ofgem, PwC UK, John Muir Trust, The Scottish Government, Transport for London, UNFCCC secretariat, World Resources Institute and Zero Waste Scotland.

Entry requirements

A UK 2.1 honours degree, or its international equivalent (www.ed.ac.uk/ international/graduate-entry), in biological science, environmental science, physical science, geography, engineering, economics or other relevant subject. We may also consider a UK 2.2 honours degree, or its international equivalent, with relevant industry experience.

English language requirements

See page 28.

Fees and funding

For fees see page 28 and for funding information see page 30.

Programme Director

Dr Simon Allen
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Food Security

MSc 1 yr FT (2 or 3 yrs PT available for UK/EU students)

Programme description

This programme is run in collaboration with Scotland’s Rural College. Food security has become a critically important issue for societies around the world. The effects of climate change, demographies, changes in diet, trade liberalisation, an increased focus on conservation, technological innovations including GM crops, the impact of climate change and new responses to disasters are all causes that affect food security. With such a rapid growth in this area, there is an increasing demand for qualified experts to contribute to policy creation and implementation in food production and the supply chain. This unique MSc offers you the scope and multidisciplinary approach to address all the major challenges facing the future of the technical, agronomic, environmental, economic and socio-political factors that influence food security. You will be equipped with the analytical and communication skills to contribute to humanity’s efforts to achieve and sustain food security during the 21st century.

Programme structure

This programme consists of six taught courses and a dissertation.

RECOMMENDED OPTION COURSES

In consultation with the Programme Director, you will choose from a range of option courses. We have previously offered: Principles of Environmental Sustainability; Sustainable Energy Technologies; Marine Systems and Policies; Technologies for Sustainable Energy; Introduction to 3D Climate Modelling; Data Integration and Exchange; Data Mining and Exploration; Environmental Impact Assessment; Integrated Resource Management in Food Production; Marine Systems and Policies; Participation in Policy and Planning; Political Ecology; Ecosystem Values and Management; Soil Science Concepts and Application; Water Resource Management.

Field trip

This is a field trip to Highland Perthshire in October, focusing on project management and techniques for capturing geospatial information.

Career opportunities

Demand for GIS expertise is growing at an unprecedented rate and our internationally recognised programme is held in high regard by employers. Recent graduates are now working in a variety of GIS roles worldwide in public service, private sector, and non-governmental agencies as well as international businesses where they can utilise the invaluable, and highly prized, skills they have acquired on the programme, such as food security assessment.

Entry requirements

A UK 2.1 honours degree, or its international equivalent (www.ed.ac.uk/ international/graduate-entry), in environmental science, physical science, biology, or environmental science, physical science, biology or related subject. We may also consider a UK 2.2 honours degree, or its international equivalent, with relevant work experience. This programme is not suitable for applicants pursuing a career in food safety/hygiene or related areas.

English language requirements

See page 28.

Fees and funding

For fees see page 28 and for funding information see page 30.

Programme Director

Dr Neil Stuart
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Email n.stuart@ed.ac.uk

Geographical Information Science

MSc 1 yr FT (2 or 3 yrs PT available for UK/EU students)

Programme description

This programme, accredited by the Royal Institution of Chartered Surveyors, offers expert understanding of the latest developments in geographical information science (GIS). It meets practical theory and an ability to apply learned skills in any software environment, and offers hands-on experience in geographical problem solving.

Programme structure

This programme consists of two semesters of taught courses, delivered through lectures and seminars, and a dissertation.

COMPULSORY COURSES PREVIOUSLY OFFERED INCLUDE:

Introduction To Spatial Analysis; Spatial Modelling; Research Practice in Geomatics; Understanding Environment and Development; Dissertation.

COMPULSORY OPTION COURSES

In consultation with the Programme Director, you will choose from a range of option courses. We have previously offered: Principles of GIS; Business Geographics; Fundamentals for Remote Sensing: Advanced Spatial Database Methods; Object Oriented Software Engineering Principles; Object Oriented Software Engineering Principles; Further Spatial Analysis; Hyperpectral Remote Sensing; Introduction to Soil Survey; Introduction to Geospatial Information Subject to timetable restrictions: Principles of Environmental Sustainability; Sustainable Energy Technologies; Marine Systems and Policies; Technologies for Sustainable Energy; Introduction to 3D Climate Modelling; Data Integration and Exchange; Data Mining and Exploration; Environmental Impact Assessment; Integrated Resource Management in Food Production; Marine Systems and Policies; Participation in Policy and Planning; Political Ecology; Ecosystem Values and Management; Soil Science Concepts and Application; Water Resource Management.

Field trip

There is a field trip to Highland Perthshire in October, focusing on project management and techniques for capturing geospatial information.

Career opportunities

Demand for GIS expertise is growing at an unprecedented rate and our internationally recognised programme is held in high regard by employers. Recent graduates are now working in a variety of GIS roles worldwide in public service, private sector, and non-governmental agencies as well as international businesses where they can utilise the invaluable, and highly prized, skills they have acquired on the programme, such as food security assessment.

Entry requirements

A UK 2.1 honours degree, or its international equivalent (www.ed.ac.uk/ international/graduate-entry). We may also consider a UK 2.2 honours degree, or its international equivalent, with relevant industry experience.

English language requirements

See page 28.

Fees and funding

For fees see page 28 and for funding information see page 30.

Programme Director

Dr Neil Stuart
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See also...

Geographical Information Science is also available as a Masters by Research. See page 21.
**Geographical Information Science & Archaeology**

**MSc 1 yr FT (2 yrs or 3 yrs PT available for UK/EU students)**

**Programme description**

This programme offers you the chance to develop a detailed understanding of the application of geographical information science (GIS) and related technologies within the field of archaeology. The programme has a distinctive Scottish flavour, and students will benefit from the guidance of internationally recognised staff. The programme combines the pedigree of Edinburgh’s GIS expertise with a long-established reputation in archaeological teaching and research. You will gain a broad understanding of the use of GIS in archaeological surveying, recording and research and will be equipped with the analytical and communication skills necessary to work in this vibrant area. Demand for the application of GIS within archaeology is growing, at an unprecedented rate, including searching for new archaeological sites, determining the societal context of existing sites and examining the interplay between successive occupations of a site. The proven ability of our GIS graduates in employment means our programme is held in high regard by a wide range of employers.

**Programme structure**

The programme is organised into two semesters of taught courses, delivered through lectures and seminars, after which you will work towards your individual dissertation.

**COMPULSORY COURSES PREVIOUSLY OFFERED INCLUDE:**
- Principles of GIS for Archaeologists
- Introduction to Spatial Analysis
- GeoVisualization

**RECOMMENDED OPTION COURSES**

In consultation with the Programme Director, you will choose from a range of option courses. We have previously offered: Distributed GIS; Frontiers in Archaeology; Research Seminars; Fundamentals for Remote Sensing; Object Oriented Software Engineering: Principles; Object Oriented Software Engineering: Spatial Algorithms; Advanced Spatial Database Methods; Business Geographics; Byantine Archaeology; The Archaeology of the Byzantine Empire and its Neighbours AD500–850; GeoVisualisation; Further Spatial Analysis; Hyperspectral Remote Sensing; Introduction to Radar Remote Sensing; Theoretical Archaeology; Archaeology and Environment.

**Field trip**

There is a field trip to Highland Perthshire in October, focusing on project management and techniques for capturing geospatial information.

**Career opportunities**

The expertise gained on this programme will allow you to continue to work in both public and private sector organisations, including Historic Scotland, National Trust, Forensic Architecture, and the private sector. Our GIS graduates have gained work in both public and private sector organisations, including Historic Scotland, English Heritage, the Royal Commission on the Ancient and Historical Monuments of Scotland, ThinkWhere (formerly Forth Valley GIS) and CIFA Archaeology.

**Entry requirements**

A 2.1 honours degree, or its international equivalent (www.ed.ac.uk/ international/graduate-entry); or 2.2 honours degree, or its international equivalent, with relevant industrial or business experience.

**English language requirements**

See page 28.

**Fees and funding**

For fees see page 28 and for funding information see page 30.

**Programme Director**

Dr Neil Stuart

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**Global Environment Challenges**

**PgCert 9 mths or 1 yr FT (2 yrs PT)**

**Programme description**

Human activity is changing the natural environment at an unprecedented rate. As a result, humanity faces a range of complex and interrelated challenges: global warming, ecosystem disruption, biodiversity loss, and, for many, increasing difficulty in meeting the basic human needs for energy, food, water and shelter. This part-time, online distance learning programme takes a multidisciplinary approach to understanding these contemporary environmental issues and will develop your capacity to address these issues in your professional life. Drawing from the University’s unique breadth of expertise, you will develop an in-depth appreciation of how human activity drives environmental change.

The programme draws multidisciplinary expertise from the University and beyond, through the Global Environment & Society Academy, a network of experts developing innovative solutions for the world’s most challenging problems: www.ed.ac.uk/global-environment-society.

**Programme structure**

The certificate is split into three taught courses, which are delivered through an exciting mixture of online modes, including video lectures, study guides, self-directed and guided reading as well as a range of interactive online reflection and discursive activities. Due to the highly flexible nature of this certificate, it is ideal if you want to gain a further qualification with minimum interruption to your work or family commitments. By introducing you to a virtual learning environment, you will develop your IT skills and make contact with fellow students from across the world.

**COMPULSORY COURSES PREVIOUSLY OFFERED INCLUDE:**
- Global Environment Challenges: Climate Change Mitigation: Ecosystem Values and Management.

**MSC GLOBAL CHALLENGES**

This PgCert may form one third of an MSc in Global Challenges, with Global Health Challenges and Global Development Challenges making up the other two thirds. More information: www.ed.ac.uk/pg/923

**Career opportunities**

This certificate will equip you with the knowledge and skills needed for work with governments, NGOs, international aid organisations, United Nations agencies, the private sector, universities and other research institutions.

**Entry requirements**

A UK 2.1 honours degree, or its international equivalent (www.ed.ac.uk/international/graduate-entry), in any subject. We will also take any professional experience into account.

**English language requirements**

See page 28.

**Fees and funding**

For fees see page 28 and for funding information see page 30.

**Programme Director**

Professor Mark Rouncevell

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Entry requirements

A UK 2:1 honours degree, or its international equivalent (www.ed.ac.uk/ international/graduate-entry), in natural sciences or social sciences, but with clear evidence of interest and experience in marine topics.

English language requirements

See page 28.

Fees and funding

For fees see page 28 and for funding information see page 30.

Programme Director Dr Meriwether Wilson
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www.ed.ac.uk/pg/781

Soils & Sustainability

MSc 1 yr FT (2 yrs or 3 yrs PL available for UK/EU students)

Programme description

This programme is in collaboration with Scotland’s Rural College. Soils form the basis of all agricultural production, but they also store water, sequester carbon and provide biological habitats, have an impact on the accumulation of greenhouse gases in our atmosphere, are involved in dealing with society’s waste, are a source of extractive minerals and provide the foundations for the housing and roads on which society depends. As such, sustainable use and management are crucial to protect this natural resource for the future. This programme is designed to provide different approaches to soil science for the 21st century and is suitable if you wish to pursue a career in land-based management or environmental protection.

Programme structure

This programme involves two semesters of compulsory and option taught courses, followed by a period of individual dissertation project work.

COMPULSORY COURSES PREVIOUSLY OFFERED INCLUDE:

- Soil Protection and Management
- Soil Science Concepts and Applications
- Soil Ecology and Taxonomy
- Dissertation

RECOMMENDED OPTION COURSES

In consultation with the Programme Director, you will choose from a range of option courses. We have previously offered: Spatial Modelling; Geodiversity Conservation and Interpretation; Culture, Ethics & Environment: Analysing the Environment; Analysing the Environment Study Tour; Ecosystem Dynamics and Functions; Human Dimensions of Environmental Change and Sustainability; Development; Soil Physics and Practices; Principles of Environmental Sustainability; Principles of GIS; Project Appraisal; Atmospheric Quality and Global Change; Frameworks to Assess Food for Sustainability; Water Resource Management; Environmental Impact Assessment; Principles of Soil Science and applications; Sustainability of Food Production; Interrelationships in Food Systems.

Field trip

An integral, week-long study tour lets you refresh & skills learned on the programme and develop new practical and technical skills as well as advising on government policy, archaeological excavations and laboratory analyses, forestry and landscape design.

Entry requirements

A UK 2:1 honours degree, or its international equivalent (www.ed.ac.uk/ international/graduate-entry), in natural sciences or social sciences, but with clear evidence of interest and experience in marine topics.

English language requirements

See page 28.

Fees and funding

For fees see page 28 and for funding information see page 30.

Programme Director Dr Jennifer Carfrae
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www.ed.ac.uk/pg/903

Sustainable Plant Health

MSc 1 yr FT (2 yrs or 3 yrs PL available for UK/EU students)

Programme description

This programme is in collaboration with Scotland’s Rural College. Food production has tripled in the past forty years, but one billion people still go hungry. We need to increase global food production by 70% to ensure that 70% per cent of all food produced is wasted in the pathway from ‘field to fork’. With the global human population set to rise from seven to nine billion by 2050, we urgently need sustainable solutions that will allow us to increase the global food supply while preserving the integrity of agricultural and non-agricultural ecosystems. Our graduates focus on new plant health threats that threaten areas of great natural beauty and diversity and affect both rural and urban landscapes. This unique programme gives you the opportunity to develop your understanding of the vital role of plant health, applying your skills by conducting laboratory and field studies. It is suitable if you wish to pursue a career in plant protection, agriculture, horticulture, forestry or urban settings, or in policy development and implementation, plant health inspection, academic research, and consultancy in the plant health or private sector.

Programme structure

You will take two semesters of lectures and practicals and a dissertation.

COMPULSORY COURSES PREVIOUSLY OFFERED INCLUDE:

- Forensic Plant Health
- Plant Health in a Global Context
- Dissertation

RECOMMENDED OPTION COURSES

In consultation with the Programme Director, you will choose from a range of option courses. We have previously offered: Applications in Ecological Economics; Atmospheric Quality and Global Change; Case Studies in Sustainable Development; Climate Change and Corporate Strategy; Ecosystem Services 1: Ecosystem Services and Management; Environmental Impact Assessment; Forensics; Forensic Plant Health; Human Dimensions of Environmental Change and Sustainability; Integrated Resource Management; Integrated Resource Planning; Interrelationships in Food Systems; Land Use/Environmental Interactions; Participation in Policy and Planning; Sustainability of Food Production; Interrelationships in Food Systems.

Field trip

Providentially in Poland, a week-long field trip provides an opportunity to see principles of Sustainable Plant Health applied in a real world setting.

Career opportunities

This programme is designed to give you career opportunities in any organisation that needs to consider its environmental or risk decision making. Graduates of this programme have gone on to work across a wide range of industry, academic and government organisations.

Entry requirements

A UK 2:1 honours degree, or its international equivalent (www.ed.ac.uk/ international/graduate-entry). We may also consider a UK 2:2 honours degree, or its international equivalent, with evidence of relevant work experience.

English language requirements

See page 28.

Fees and funding

For fees see page 28 and for funding information see page 30.

Programme Director Dr Mark Hocart
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www.ed.ac.uk/pg/379

Sustainable Resource Management

MSc 1 yr FT (2 yrs or 3 yrs PL available for UK/EU students)

Programme description

This programme is the UK’s first dedicated MSc in Sustainable Resource Management and is a planning and decision-making process that seeks to coordinate and balance the social, economic and environmental demands on resource use, to achieve long-term sustainable benefits and reduce conflicts among resource users. The MSc in Sustainable Resource Management is suitable for those with an interest in a career in organisations which have responsibility for environmental planning, resource allocation or overseeing the impact of resource management decisions. You will benefit from practical knowledge and hands on experience from government and non-government experts, and explore questions surrounding society’s coordination of natural resources, such as how to better manage resources and prioritise their use. The programme will equip you with the necessary tools to pursue a range of international career paths in planning and managing environmental and economic demands.

Programme structure

This programme involves two semesters of taught courses and an individual research project.

COMPULSORY COURSES PREVIOUSLY OFFERED INCLUDE:

- Integrated Resource Management
- Integrated Resource Planning
- Dissertation

RECOMMENDED OPTION COURSES

In consultation with the Programme Director, you will choose from a wide range of option courses. We have previously offered: Atmospheric Quality and Global Change; Frameworks to Assess Food Security; Human Dimensions of Environmental Change and Sustainability; Principles of Environmental Sustainability; Principles of Geographical Information Science; Project Appraisal; Understanding Environmental and Development; Foundations in Ecological Economics; Geology for Earth Resources; Energy Policy and Politics; Environmental Impact Assessment; Business Geographies; Political Ecology; Energy and Society; Case Studies in Sustainable Development; Participation in Policy and Planning; Sustainability of Food Production; Waste Reduction and Recycling; Forests and Environment; Water Resource Management.

Career opportunities

This programme is designed to give you career opportunities in any organisation that needs to consider its environmental or decision making processes. Graduates of this programme have gone on to work across a wide range of industry, academic and government organisations.

Entry requirements

A UK 2:1 honours degree, or its international equivalent (www.ed.ac.uk/ international/graduate-entry). We may also consider a UK 2:2 honours degree, or its international equivalent, with evidence of relevant work experience.

English language requirements

See page 28.

Fees and funding

For fees see page 28 and for funding information see page 30.

Programme Director Dr Ron Wilson
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Email ron.wilson@ed.ac.uk
As the largest grouping of geoscientists in the UK, we offer an extensive range of research opportunities for postgraduates.

The University of Edinburgh has an unbroken record of teaching and research in the earth sciences going back to 1770, when Robert Ramsay became the first Professor of Natural History.

James Hutton and Arthur Holmes were prominent among those who set an academic tradition in Edinburgh that continues today with the University achieving top ratings in earth sciences and environmental sciences (including geography) teaching and research.

Home of leading research
Our interactive and interdisciplinary research environment allows us to tackle difficult research questions, from causes of past glaciations to interactions of earth, climate and society. The ambition and quality of our research was reflected in the Research Excellence Framework (REF) 2014, where 78 per cent of our research was rated world leading or internationally excellent.

Backed by industry
The School receives strong backing from industry, particularly in areas such as hydrocarbons and carbon capture and storage. We receive support from the EU and from major UK research councils, including the Natural Environmental Research Council, Engineering and Physical Sciences Research Council and the Economic and Social Research Council.

Research community
Postgraduate research at the School of GeoSciences is represented by the following three research institutes:

- Geography and the Lived Environment: This institute generates agenda-setting research that improves understanding of the relationships between people, society and the environment. Researchers seek to investigate key areas of contemporary environmental and cultural change.

- Global Change: This institute seeks to improve the scientific understanding of past, present and future changes in the Earth system through measurements, theory and computational modelling. Better understanding of the Earth system allows us to inform policymakers and to develop effective mitigation strategies, which, if implemented, would minimise the economic and humanitarian implications of changes in climate and the Earth system. Our aim incorporates some of the most challenging scientific challenges of the 21st century. To address these questions we nurture an interdisciplinary research and teaching environment, integrating expertise across the institute, the School of GeoSciences and more broadly throughout the University and beyond.

- Earth and Planetary Sciences: This institute undertakes research that informs the solutions to address global challenges relating to resources, natural hazards and the environment. Our researchers seek better understanding of chemical and physical properties of materials, the origin and history of pore fluids, rock assemblages, and magmas, and their interactions at all scales within the Earth. We develop new seismological, electromagnetic, gravitational, magnetic and industrial seismic methods to interrogate the Earth remotely for such information.

Dynamic leaders
The School has many high-profile academics who are leaders in their field.

- Gabriele Hegerl is Professor for Climate System Science. She studies the causes of observed changes in climate, and detected the emerging signal of greenhouse gas increases in temperature data. She now studies causes of change in climate extremes and of climate variability and change over the past millenium. Professor Hegerl is involved in the Intergovernmental Panel on Climate Change. She was a member of the Summary for Policymakers writing team in the Fourth Assessment Report, and a member of the Synthesis Report writing team in the Fifth Report.

- Alexander Tudhope is the Head of the School of GeoSciences and Professor of Climate Studies. One of his main research interests is coral palaeoclimatology – which uses records laid down in coral growth to reconstruct past climate and environmental change. Much of his work has focused on the El Niño Southern Oscillation phenomenon and has involved fieldwork from the Galapagos to the South Pacific Islands to Papua New Guinea. He was involved in the Integrated Ocean Drilling Programme’s Expedition 325 to drill samples from Australia’s Great Barrier Reef.

International collaborations
A commitment to international partnerships is intrinsic to the School’s research ethos. We have established research links on every continent.

- Some projects are global in scope, such as the calculation of surface temperatures across oceans, determining the rate at which cosmic rays bombard the Earth’s surface at different latitudes, or human transnational processes such as migration and globalisation.

- Other projects focus on specific regions and communities, for example addressing issues of gender and social equality for the Nepal-Swiss Community Forestry Project in Kathmandu, or examining archaeological evidence in Ireland to evaluate the role of climate in environmental and cultural change.

Examples of our research partnerships can be found on page 19.

Research at the School of GeoSciences

As the largest grouping of geoscientists in the UK, we offer an extensive range of research opportunities for postgraduates.

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Home of leading research
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Backed by industry
The School receives strong backing from industry, particularly in areas such as hydrocarbons and carbon capture and storage. We receive support from the EU and from major UK research councils, including the Natural Environmental Research Council, Engineering and Physical Sciences Research Council and the Economic and Social Research Council.

Research community
Postgraduate research at the School of GeoSciences is represented by the following three research institutes:

- Geography and the Lived Environment: This institute generates agenda-setting research that improves understanding of the relationships between people, society and the environment. Researchers seek to investigate key areas of contemporary environmental and cultural change.

- Global Change: This institute seeks to improve the scientific understanding of past, present and future changes in the Earth system through measurements, theory and computational modelling. Better understanding of the Earth system allows us to inform policymakers and to develop effective mitigation strategies, which, if implemented, would minimise the economic and humanitarian implications of changes in climate and the Earth system. Our aim incorporates some of the most challenging scientific challenges of the 21st century. To address these questions we nurture an interdisciplinary research and teaching environment, integrating expertise across the institute, the School of GeoSciences and more broadly throughout the University and beyond.

- Earth and Planetary Sciences: This institute undertakes research that informs the solutions to address global challenges relating to resources, natural hazards and the environment. Our researchers seek better understanding of chemical and physical properties of materials, the origin and history of pore fluids, rock assemblages, and magmas, and their interactions at all scales within the Earth. We develop new seismological, electromagnetic, gravitational, magnetic and industrial seismic methods to interrogate the Earth remotely for such information.

Dynamic leaders
The School has many high-profile academics who are leaders in their field.

- Gabriele Hegerl is Professor for Climate System Science. She studies the causes of observed changes in climate, and detected the emerging signal of greenhouse gas increases in temperature data. She now studies causes of change in climate extremes and of climate variability and change over the past millenium. Professor Hegerl is involved in the Intergovernmental Panel on Climate Change. She was a member of the Summary for Policymakers writing team in the Fourth Assessment Report, and a member of the Synthesis Report writing team in the Fifth Report.

- Alexander Tudhope is the Head of the School of GeoSciences and Professor of Climate Studies. One of his main research interests is coral palaeoclimatology – which uses records laid down in coral growth to reconstruct past climate and environmental change. Much of his work has focused on the El Niño Southern Oscillation phenomenon and has involved fieldwork from the Galapagos to the South Pacific Islands to Papua New Guinea. He was involved in the Integrated Ocean Drilling Programme’s Expedition 325 to drill samples from Australia’s Great Barrier Reef.

International collaborations
A commitment to international partnerships is intrinsic to the School’s research ethos. We have established research links on every continent.

- Some projects are global in scope, such as the calculation of surface temperatures across oceans, determining the rate at which cosmic rays bombard the Earth’s surface at different latitudes, or human transnational processes such as migration and globalisation.

- Other projects focus on specific regions and communities, for example addressing issues of gender and social equality for the Nepal-Swiss Community Forestry Project in Kathmandu, or examining archaeological evidence in Ireland to evaluate the role of climate in environmental and cultural change.

Examples of our research partnerships can be found on page 19.

Our research collaborations

We work with a wide range of research institutes, centres and universities around the world. Here is a selection of our partnerships.

- Centre for Research on Environment, Society and Health (CRESH): CRESH fosters collaborations between scientists whose research is focused on understanding how physical and social environments can influence health. www.cresh.org.uk

- Centre for Science at Extreme Conditions (CSEC): The aim of the CSEC is to promote the study of materials at extremes of pressure and temperature and in electromagnetic fields. www.csec.ed.ac.uk

- Edinburgh Materials and Micro-Analysis Centre (EMMACAC): We provide integrated and interdisciplinary facilities for the application of microbeam analytical techniques to material analysis. www.ed.ac.uk/geosciences/research/facilities/EMMACAC

- Edinburgh Research Partnership in Engineering and Mathematics (ERPem): a consortium involving the University of Edinburgh, Heriot-Watt University and Edinburgh Napier University, organised into six Joint Research Institutes dedicated to world-class research, innovation and education in engineering and mathematical science: www.erp.ac.uk

- Edinburgh Seismic Research (ESR): We are a federation of research groups formed by the UK’s largest group of scientists involved in exploration geophysics: www.geos.ed.ac.uk/jeismic

- International Centre for Carbonate Reservoirs (ICCR): ICCR is a strategic alliance between Edinburgh and Heriot-Watt universities investigating the extraction of hydrocarbons from carbonate reservoirs: www.iccr.org.uk

- National Centre for Earth Observation (NCEO): The NCEO is a partnership of scientists and institutions that are using data from Earth observation satellites to monitor global and regional changes in the environment: www.nceo.ac.uk

- Scottish Carbon Capture and Storage (SCCC): The SCCC is the largest such group in the UK, with world-class expertise in hydrocarbon geoscience, industrial-scale chemical engineering, carbon capture and innovative CO2 use and power plant design: www.sccs.org.uk

- Scottish Universities Environmental Research Centre (SUGAR): This is a collaborative facility operated by the Universities of Edinburgh and Glasgow, providing world-class analytical facilities. It hosts several national Natural Environment Research Council facilities: www.gla.ac.uk/research/aaz/suerc

- UK Geotraces: UK Geotraces is part of an international consortium founded to understand the oceanic cycles of key trace elements and isotopes: www.ukgeotraces.com
Research opportunities

We offer a range of research degrees: MSc by Research, MPhil and PhD. You can commit to anything from one year of full-time study for the MSc to six years’ part-time study for a doctorate.

**MSc by Research**

This degree offers the opportunity to acquire research skills by undertaking a single year (if studying full time) of independent study within the School’s research interests.

**Master of Philosophy**

The MPhil requires a minimum of two years’ study (if studying full time), including an extended piece of supervised research.

**Doctor of Philosophy**

As a PhD student you will undertake an original research project under individual supervision. Your studies will take at least three years, and to qualify for your doctorate your thesis must be judged to represent an original contribution to knowledge.

**Entry requirements**

A UK undergraduate degree, or its international equivalent, in a related subject. We may also consider your application if you have other qualifications or experience. Please check the specific entry requirements for your programme online before applying.

**Support**

As a research student, you will be affiliated to one of our research institutes, benefiting from an excellent peer-supported network. As groupings of researchers with related interests, the institutes provide a forum for development of ideas, collaboration, and dissemination of results, and an environment for training, development and mentoring of research students and early career researchers.

**Career opportunities**

Many of our graduates go on to postdoctoral research roles in universities and research institutes internationally. Others are now working as geoscientists, geophysicists, biochemists and environmentalists for companies including BP, the Met Office and the International Seismological Centre.

**More information**

Enquiries for PhD, MPhil and MSc by Research programmes should be directed to:

PGR Recruitment Secretary
School of GeoSciences, Grant Institute, University of Edinburgh
West Mains Road, Edinburgh EH9 3JW, UK
Tel +44 (0)131 650 8556
Email pgrapplications@geo.ed.ac.uk
www.ed.ac.uk/geosciences/postgraduatephd

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**GeoSciences Postgraduate Opportunities 2017**

www.ed.ac.uk/geosciences

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**Geographical Information Science**

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

**MPhil 2 yrs FT (4 yrs PT available for UK/EU students)**

This is a world-class programme, offering a unique educational opportunity. We aim to develop and improve understanding of the field of GIS by mixing strong practical skills with fundamental theoretical knowledge.

The MSc by Research degree is perfect for those who wish to pursue future research and allows those with a strong background in GIS the flexibility to widen their expertise by taking optional courses in other disciplines, such as informatics, alongside developing your dissertation.

This extensive programme produces excellent students with sound theoretical knowledge underpinning practical application and ‘hands on’ experience in geographical problem solving.

**English language requirements**

See page 28.

**Fees and funding**

For fees see page 28 and for funding information see page 30.

**Programme Director Bruce Gittings**

Tel +44 (0)131 650 2558
Email bruce@ed.ac.uk

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**“There is no better GIS programme in the world.”**

Professor Bob Barr OBE, Chairman, Manchester Geomatics

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**Fees and funding**

The group receives a substantial student support allocation from the Arts & Humanities Research Council (AHRC) and the ESRC and also has studentships from successful consortium bids. School-funded scholarships are also available. For fees see page 28 and for funding information see page 30.

**Programme contact PGR Recruitment Secretary**

Tel +44 (0)131 650 8556
Email pgrapplications@geo.ed.ac.uk

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**Nature’s Geographies**

: Building upon human geography’s long-standing understanding of the relationships between people, society and the environment. Our research investigates key areas of contemporary and historical societal concern, including development, climate change, inequalities, land-use change, ecosystem services, health and wellbeing and urbanisation. The lived environment refers to those aspects of the Earth system that are experienced by people – not as it is purely conceptualised or theorised, but as it is lived. It is a multidisciplinary concept that brings together environmental science, geography, economics, policy, sociology and computer science.

**English language requirements**

See page 28.

**Fees and funding**

The School receives a substantial student support allocation from the Arts & Humanities Research Council (AHRC) and the ESRC and also has studentships from successful consortium bids. School-funded scholarships are also available. For fees see page 28 and for funding information see page 30.

**Programme contact PGR Recruitment Secretary**

Tel +44 (0)131 650 8556
Email pgrapplications@geo.ed.ac.uk

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**Human Geography**

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

**MPhil 2 yrs FT (4 yrs PT available for UK/EU students)**

Our research degrees in Geography draw on expertise from the School’s Human Geography Research Group, part of the Geography and the Lived Environment research institute.

**Research group**

Our research degrees in Geography draw on expertise from the School’s Human Geography Research Group, part of the Geography and the Lived Environment research institute.

**Research profile**

The Human Geography Research Group is recognised for its leading contribution to research at the forefront of the field. The Group’s research efforts provide challenging new insights to core geographical concerns through four research themes:

- **Just Geographies:** Building upon human geography’s long-standing concern with the production and consequences of inequality and uneven development.
- **Nature’s Geographies:** Focusing on interactions between nature and society, environment and culture.
- **Materialising Geographies:** Examining the relationship between materiality, technology and geography.
- **Lived Geographies:** Concerned with how social, economic, political and cultural processes emerge from, and shape people’s daily lives at home, work and in public.

We have expertise in a wide range of regions, including the UK and continental Europe, South Asia, Australia, North and South America, Canada, the Caribbean and the Middle East.

We collaborate with colleagues across the University including in the Schools of Education, Health in Social Science (including Counselling Studies) and Edinburgh College of Art, and other areas within the College of Humanities & Social Science.

**Training and support**

The School is recognised as a provider of the Economic & Social Research Council (ESRC) Research Training 1+3 postgraduate training programme and has the Research Training-recognised MSc by Research in Human Geography, which is co-delivered with the Scottish Graduate School of Social Science. The group is a member of the ESRC-recognised Scottish Human Geography Consortium and the Kindrogan Consortium for Advanced Postgraduate Research Training in Human Geography. It has expertise in qualitative and feminist methodologies, archive use,GIS and linked analysis of large datasets.

**English language requirements**

See page 28.

**Fees and funding**

The group receives a substantial student support allocation from the Arts & Humanities Research Council (AHRC) and the ESRC and also has studentships from successful consortium bids. School-funded scholarships are also available. For fees see page 28 and for funding information see page 30.

**Programme contact PGR Recruitment Secretary**

Tel +44 (0)131 650 8556
Email pgrapplications@geo.ed.ac.uk

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**“I have been given the space necessary to explore all the possible angles of my research and decide which to focus on. Both my Supervisor and Programme Director have always been welcoming and encouraging to my suggestions and I found a great balance of freedom to explore and work on my research, but also support when I needed it.”**

Candela Sanchez-Rodilla Espeso, MSc Human Geography
GeoSciences Individual Project

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

This masters by research programme is an opportunity to carry out a substantial piece of research in any of the major branches of geosciences. The programme allows you to work on research throughout the year, and your work will be assessed primarily on your final dissertation. You can follow taught courses by arrangement with your supervisor, but none are required.

English language requirements

See page 28.

Fees and funding

For fees see page 28 and for funding information see page 30.

Programme contact

PGC Recruitment Secretary

Tel +44 (0)131 650 6556

Email pgrapplications@geos.ed.ac.uk

Human Geography

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

This programme’s emphasis on independent research allows you to work closely with scholars who are leaders in their field. Research may be in any area of social, urban, environmental, economic, political, cultural, development, political, economic, historical or cultural geography that is supported by the Human Geography Research Group. It is co-delivered with the University’s Graduate School of Engineering and Mathematics, and now contains Europe’s largest grouping of subsurface research geologists and specialist geophysicists in a single city.

Recent graduates are now working for the British Antarctic Survey, as geophysicists, geologists, and developers for various employers and as postdoctoral researchers for the Morelen Group and for universities worldwide from Cambridge to New Zealand.

English language requirements

See page 28.

Fees and funding

The School receives eligible studentship quota allocations from research councils and also offers studentships provided by successful consortium and initiated similar programmes. The report has also recommended investment in ‘information about the future occurrence of earthquakes contains large uncertainties and, therefore, can only be evaluated and provided in terms of probabilities’. The report recommended investment in operational forecasting with clear communication of probability and uncertainty.

Project results

Thanks in part to Professor Main’s findings, the ICFE report stimulated policy innovation across the world. Research carried out in Edinburgh has influenced forecasting policy internationally, with the Italian Department of Civil Protection committing €1 billion to a 10-year research project on operational earthquake forecasting. It has also implemented a public education programme to better communicate probability and risk. Authorities in the US and New Zealand have also taken their cues from the ICFE report and initiated similar programmes. The report has also influenced policy development in Greece, Japan and Russia.

Research carried out in Edinburgh has influenced earthquake forecasting policy internationally.

See more online: www.ed.ac.uk/research/impact
About the School of GeoSciences

At the School of GeoSciences we examine the interactions between the Earth’s geology, atmosphere, oceans and life, as well as considering our own role and impact on our planet.

The effect of these complex relationships is vitally important to our world’s future, which means the skills and knowledge you will develop as a postgraduate student here will put you in an exceptional position to help make that future better. Spanning the entire spectrum of the geosciences field, we offer opportunities that are increasingly interdisciplinary and international in focus.

We are the largest geoscience research group in the UK, with around 400 academics and researchers. The quality of our research is second to none: we were ranked top in the UK for research power in the Research Excellence Framework (REF) 2014. We were also identified as having the greatest concentration of ‘world leading’ research in their fields. Two of our academics were lead authors of the Intergovernmental Panel on Climate Change’s Fifth Assessment Report, while one was a review editor for the report. We also boast a double winner of the World Meteorological Organization’s Norbert Gerbier Prize and the world’s first Professor of Carbon Capture and Storage.

Industry links

Our masters programmes will not only extend your knowledge in some of the most exciting areas in geosciences, but will also give you valuable, marketable skills and expertise enabling you to work at the forefront of global resource management. We work closely with industry, through Edinburgh Research and Innovation, the University’s commercialisation office, to find practical answers to tomorrow’s problems. We also encourage our students to undertake work-based projects – collaborations with external organisations – which usually form the basis of your masters dissertation.

In partnership with the University’s Global Environment and Society Academy, we hold the annual ‘Environment and Society: Researcher and Practitioner Mixer’ event. This unique forum gives you the chance to pitch your taught masters research ideas to prospective employers and develop collaborative projects to mutually beneficial ends.

Talented staff

Among our large and experienced academic team are many global leaders in their fields. Two of our academics were lead authors of the Intergovernmental Panel on Climate Change’s Fifth Assessment Report, while one was a review editor for the report. We also boast a double winner of the World Meteorological Organization’s Norbert Gerbier Prize and the world’s first Professor of Carbon Capture and Storage.

Illustrious past, exciting future

While we can draw upon a rich geological heritage (James Hutton, the father of modern-day geology, was an Edinburgh alumnus), we don’t rest on our laurels. The School of Geosciences is at the forefront of new developments and thought leadership. Our current staff and research collaborations build upon established prestige and reputation, continuing to break new ground in their understanding and application of the principles of geosciences.

Facilities and resources

By joining the School of GeoSciences, you will gain access to outstanding facilities. From our own aircraft to state-of-the-art computing facilities, our exceptional equipment enables our researchers, staff and students to stay at the forefront of their field.

National facilities

The School hosts and manages a number of national analytical facilities on behalf of the Natural Environment Research Council (NERC). We are home to:

• the NERC Ion Microprobe Facility;
• the Experimental GeoScience Facility (NERC recognised);
• the NERC Geophysical Equipment Facility;
• the NERC Field Spectroscopy Facility;
• the NERC Tephrochronology Service;
• the NERC Chemical Dating Facility;
• Airborne GeoSciences (NERC recognised).

As you would expect, we have a wide range of hi-tech apparatus for the analysis of minerals and fluids, for isotope analysis and for measuring the physical properties of materials. Few institutions can boast facilities that need a call sign for Air Traffic Control. In our case the call sign is G-GEOS and the equipment is an Eco Diamond HK360 small aircraft – invaluable for measuring trace gas concentrations up to altitudes of approximately 3,000 metres.

We also offer excellent resources for scientific computing, for instance in geographic information systems, meteorological modelling and geophysics. We place a strong emphasis on field measurement techniques in ecological, atmospheric and earth sciences.

More information: www.ed.ac.uk/geosciences/research/partnerships

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.
Community

Our supportive academic community provides a dynamic environment in which you can truly thrive. We offer you numerous opportunities to access study support, develop new skills, share knowledge, exchange ideas and socialise with like-minded colleagues.

You will join an active and motivated postgraduate student community, for which regular events have included a Research and Practitioner Mixer, Field Training Days, and informal socials such as Burns Supper and ceilidhs. Additionally, staff and visiting experts deliver exciting lectures and seminars which are open to all of our students – there really is something for everyone.

If you enrol as a taught masters student, you’ll receive generous support from our GeoSciences Teaching Organisation, which helps with all aspects of the administration of your studies, while our dedicated programme directors and personal tutors are responsible for your academic and pastoral care.

If you are interested in postgraduate research, you will work closely with your supervisor and an academic advisor, and will have access to confidential pastoral support from our Research Training and Development Team.

Collaborative culture

All academic, research staff and postgraduate students are affiliated to one of our three research institutes:

• Geography and the Lived Environment;
• Global Change;
• Earth & Planetary Sciences.

As groupings of researchers with related interests, the institutes provide a forum for the development of ideas, collaboration and dissemination of results, and an environment for training, development and mentoring of research students and early-career researchers. Each research institute has a very active seminar series drawing distinguished external guests as well as internal speakers, and you will be encouraged to attend and participate.

Peer support

Our postgraduate research team ensures effective delivery of all postgraduate training, as an integral underpinning of all School research activities. On joining us you will become a member of the student-run GradSchool, an excellent peer-support network that spans each of the School’s sites. GradSchool organises social events, lectures and conferences, and maintains crucial links between you and our academic staff.

Each year GradSchool welcomes new research students with a range of events: there is an organised weekend away to the mountains, the GradSchool conference, the regular GradTalk seminars and a spring ceilidh.

Employability and graduate attributes

As a GeoSciences graduate you will have excellent academic and career prospects – working with industry, staying in academia or entering government and non-government organisations.

Observing changes in markets and external scientific developments, and incorporating these into our ever-evolving programmes, means we will equip you with those skills most in demand by employers. In addition to developing skills on field trips and during class, you will be encouraged to undertake research-skills training, including time management and academic referencing, and training in qualitative and quantitative skills provided by our academic staff and the Institute for Academic Development.

Our graduates have gone on to work for a huge array of employers across all sectors, including the Department of Energy and Climate Change, the Carbon Trust, the Forestry Commission, British Airways, Hewlett-Packard, Shell, Credit Suisse, Google, and the police.

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

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

Careers Service

Our Careers Service plays an essential part in your wider student experience at the University, offering world-class careers and personal development guidance and support. We support you to recognise the wealth of possibilities ahead, while at university and after graduation, helping you explore new avenues, tap into your talents and build your employability with confidence and enthusiasm. The Service provides specialist support for postgraduate students. From exploring career options to making decisions, from CV writing to interview practice, from Employ.ed internships to graduate posts and from careers fairs to postgraduate alumni events, we help you prepare for the future.

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

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

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/careersconnected

Backing bright ideas

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

More information: www.LAUNCH.ed.ac.uk

Learn to teach

We encourage all of our research students to carry out demonstrating and tutoring work for the School’s undergraduate programmes. This work is strongly supported by training and coaching, to ensure you get the most out of the experience and can gain a new skillset from it.

This has been a great course – one of the best investments I have made in my life – where I have not only studied in one of Britain’s best cities of geology, and is home to two UNESCO-supported Geoparks. www.europeangeoparks.org
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 in a UK 2:1 honours degree, or its international equivalent (www.ed.ac.uk/international/graduate-entry), in a subject related to your chosen programme. You will also need to meet the University’s language requirements (see below).

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 online for exact requirements for your intended programme of study. For general guidance on references, visit: www.ed.ac.uk/postgraduate/degrees

Deadlines

Masters

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 – and many of our scholarships have deadlines in the spring.

PhD

There are no official deadlines for our PhD programmes and applications are welcome throughout the year. However, many of our funding opportunities have deadlines and you may need an offer to study with us before you can make your funding application.

English language requirements

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

Abbreviations: IELTS – International English Language Testing System; TOEFL - Test of English as a Foreign Language; PTE(A) – Pearson Test of English (Academic); CPE – Certificate of Proficiency in English; CAE – Certificate in Advanced English; Trinity 6E – 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 2017.

Table: Tuition fees for EU students

<table>
<thead>
<tr>
<th>Programme</th>
<th>Annual fee</th>
</tr>
</thead>
<tbody>
<tr>
<td>Taught programme 1-year FT</td>
<td>£10,800–£13,800</td>
</tr>
<tr>
<td>Taught programme FT</td>
<td>£5,400–£6,900</td>
</tr>
<tr>
<td>MSc by Research 1-year FT</td>
<td>£7,400</td>
</tr>
<tr>
<td>MSc by Research 2-years FT</td>
<td>£3,700</td>
</tr>
<tr>
<td>All other research programmes FT</td>
<td>£4,127</td>
</tr>
<tr>
<td>All other research programmes FT</td>
<td>£2,061</td>
</tr>
</tbody>
</table>

Online Distance Learning

<table>
<thead>
<tr>
<th>Programme</th>
<th>Annual fee</th>
</tr>
</thead>
<tbody>
<tr>
<td>MSc</td>
<td>£13,800</td>
</tr>
<tr>
<td>PgCert</td>
<td>£4,600</td>
</tr>
</tbody>
</table>

For international students

<table>
<thead>
<tr>
<th>Programme</th>
<th>Annual fee</th>
</tr>
</thead>
<tbody>
<tr>
<td>Taught programme 1-year FT</td>
<td>£20,100–£25,500</td>
</tr>
<tr>
<td>MSc by Research 1-year FT</td>
<td>£23,700</td>
</tr>
<tr>
<td>All other research programmes FT</td>
<td>£19,100</td>
</tr>
</tbody>
</table>

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

The University is working with the Scottish Government to try to protect the fee status of EU students enrolling in the 2017/18 academic year for the duration of their course. However there is a risk that EU students enrolling in the 2017/18 academic year may become subject to international tuition fees for any years of study which follow the UK exit from the EU. In those circumstances we are committed to working with the Government to ameliorate the impact of that change for individual students.

The Scottish Government has already confirmed that the fee status of existing students and students enrolling in the 2016/17 academic year will remain unchanged for the duration of their studies.

Tuition fees for EU students

All programmes may be subject to an application fee and additional costs/programme costs may apply. Please check the latest programme information online.

Tuition fees

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

Figures marked * show the fee level set for the 2016/17 academic year. All other figures are indicative of expected fee levels for your studies during the 2017/18 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:

• For applications received by the normal deadline, you will be informed of the outcome of your application by late April.
• For applications received after the normal deadline, you will be informed of the outcome of your application by early May.
• The fee status of EU students commencing in 2017/18 will be confirmed by the Scottish Government on a case-by-case basis. In most cases these students will be admitted as Scottish/EU fee status students and are eligible for tuition fee support from the Student Awards Agency for Scotland (SAAS). However, the fee status of any students who are not confirmed as being Scottish/EU at the earliest in 2019 so any changes would not take effect before the academic year 2019/20.

The University is working with the Scottish Government to try to protect the fee status of EU students enrolling in the 2017/18 academic year for the duration of their course. However there is a risk that EU students enrolling in the 2017/18 academic year may become subject to international tuition fees for

Any years of study which follow the UK exit from the EU. In those circumstances we are committed to working with the Government to ameliorate the impact of that change for individual students.

The Scottish Government has already confirmed that the fee status of existing students and students enrolling in the 2016/17 academic year will remain unchanged for the duration of their studies.

For UK/EU students

Annual fee

<table>
<thead>
<tr>
<th>Programme</th>
<th>Annual fee</th>
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<tbody>
<tr>
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Future changes to the fee status of EU students enrolling in the 2017/18 academic year will depend on the timing and terms of the UK’s exit from the European Union and would also require changes to existing UK and Scottish legislation. Current indications are that the UK would leave the EU at the earliest in 2019 so any changes would not take effect before the academic year 2019/20.

The University is working with the Scottish Government to try to protect the fee status of EU students enrolling in the 2017/18 academic year for the duration of their course. However there is a risk that EU students enrolling in the 2017/18 academic year may become subject to international tuition fees for any years of study which follow the UK exit from the EU. In those circumstances we are committed to working with the Government to ameliorate the impact of that change for individual students.

The Scottish Government has already confirmed that the fee status of existing students and students enrolling in the 2016/17 academic year will remain unchanged for the duration of their studies.

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Funding

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

Scholarships at the University of Edinburgh

- Beit Trust
  - Beit Trust and the University of Edinburgh Scholarships jointly fund postgraduate students from Malawi, Zambia and Zimbabwe to undertake a masters: www.beittrust.org.uk
- China Scholarships Council/University of Edinburgh Scholarships (China)
  - A number of scholarships for PhD study to candidates who are citizens and residents of China: www.ed.ac.uk/student-funding/china-council
- Edinburgh, Earth & Environment (E3) NERC Doctoral Training Partnership Scholarships
  - There are a number of fully-funded scholarships within the E3 doctoral training partnership to address environmental challenges and provide flexible training in a multidisciplinary setting: www.ed.ac.uk/geosciences/postgraduate/phd/e3
- 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
- GeoSciences Head Of School Scholarships
  - A number of scholarships are available for applicants studying full-time masters: www.ed.ac.uk/student-funding/postgraduate/head-geo
- 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: www.ed.ac.uk/student-funding/highly-skilled
- Julius Nyerere Masters Scholarships (Tanzania)
  - One scholarship is available to citizens of Tanzania who are normally resident in Tanzania who are accepted on a full-time masters programme: www.ed.ac.uk/student-funding/nyerere
- MasterCard Foundation Scholars Programme (Africa)
  - A number of scholarships for applicants who are residents and citizens of a Sub-Saharan African country will be available for eligible masters programmes. The scholarships cover full tuition fees and expenses for accommodation and maintenance for African scholars with few educational opportunities: www.ed.ac.uk/student-funding/mastercardfoundation
- School of GeoSciences Studentships
  - A number of part-funded UK/EU and international PhD studentships are offered annually: www.ed.ac.uk/geosciences/postgraduate/phd/fees-funding/funding
- The University of Edinburgh PhD Scholarships
  - A number of scholarships, open to UK, EU and international PhD students: www.ed.ac.uk/student-funding/development

Research council awards

Research councils offer awards to masters, MPhil and PhD students in most of the Schools within the University of Edinburgh. All studentship applications from the research councils must be made through the University, through your School or College office. Awards can be made for both taught and research programmes. Normally only those UK/EU students who have been resident in the UK for the preceding three years are eligible for a full award. For some awards, candidates who are EU nationals and are resident in the UK may be eligible for a fees only award: www.ed.ac.uk/student-funding/research-councils

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

- Chile
- Colombia
  - Administrative Department of Science, Technology and Innovation (Colciencias): www.colciencias.gov.co
- Ecuador
  - Secretaria Nacional de Educacion Superior, Ciencia y Tecnologia (SENESCYT): www.educacionsuperior.gob.ec
- Iraq
  - Ministry of Higher Education and Scientific Research: www.iraqculturalattache.org.uk
- Mexico
  - National Council of Science and Technology of the United Mexican States (CONACYT): www.conacyt.mx
  - Banco de Mexico and the Banco de Mexico’s FIDERH trust (FIDERH): www.fiderh.org.mx
  - Fundacion Mexicana para la Educacion, la Tecnologia y la Ciencia (FUNEDEL): www.funedmx.org

Loans available for study at the University of Edinburgh

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

- The Canada Student Loans Program
  - The University is eligible to certify Canadian student loan applications: www.ed.ac.uk/student-funding/canadian-loans
- Erasmus+
  - An Erasmus+ loan supports candidates accepted for a masters programme in an Erasmus+ country. For more information: http://ec.europa.eu/education/Erasmusplus
    - opportunities/higher-education/masterstooloans_en.htm
- Postgraduate Loans (PGL)
  - Eligible students from England, undertaking a taught or research masters can apply to Student Finance England for a loan of up to £10,000 towards fees or maintenance costs: www.gov.uk/postgraduate-loan
- Postgraduate Loans (SAAS)
  - Scotland: The Student Awards Agency Scotland offers tuition fee loans to eligible students undertaking full- or part-time postgraduate study. For a full list of eligible programmes: www.saas.gov.uk
- US Student Loans
  - The University is eligible to certify loan applications for US loan students. Full details on eligibility and how to apply can be found online: www.ed.ac.uk/student-funding/us-loans

Other sources of funding

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

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

Funding for online distance learning

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

“The Scottish Government’s initiative to attract international students from Canada, China, India and the US through the Saltire Scholarship Scheme, as well as the University of Edinburgh’s help and support for international students, has helped provide me with an opportunity that I would never have conceived of prior to starting my studies at Edinburgh.”

Robert Starr, MSc High Performance Computing, Scotland’s Saltire Scholarship
The School of GeoSciences is based in several buildings across two University campuses. The Head of School and the main offices are at King's Buildings, about two miles south of the city centre. The Institute of Geography and the Edinburgh Centre for Carbon Innovation are in the historic Old Town of Edinburgh.

Detailed maps can be found at: www.ed.ac.uk/maps

For more information about taught MSc programmes, contact the relevant programme secretaries:

For Carbon Capture & Storage; Ecosystem Services; Sustainable Resource Management; and Carbon Management (including PgCert Climate Change Management and Carbon Innovation), contact:

Alice Heathley
Tel +44 (0)131 650 4866
Email geos.postgrad@ed.ac.uk

For Environment, Culture & Society; Environmental Sustainability; Environment & Development; Global Environment Challenges (PgCert) and Human Geography, contact:

Karolina Galera
Tel +44 (0)131 650 2572
Email geos.postgrad@ed.ac.uk

For Geographical Information Science; Geographical Information Science & Archaeology; Earth Observation & Geoinformation Management; Marine Systems & Policies; and Petroleum Geoscience, contact:

Programme Secretary
Tel +44 (0)131 650 2543
Email geos.postgrad@ed.ac.uk

For all collaborative programmes with Scotland’s Rural College (SRUC) (Ecological Economics, Environmental Protection & Management, Food Security, Soils & Sustainability, and Sustainable Plant Health), contact:

Elspeth Martin
Tel +44 (0)131 535 4198
Email elspeth.martin@sruc.ac.uk

For specific GeoSciences taught masters scholarship queries please contact:

Natasha Black
Tel +44 (0)131 650 7542
Email marketing@geos.ed.ac.uk

For more information about research programmes (PhD, MSc by Research and MPhil), contact:

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Tel +44 (0)131 650 8556
Email pgrapplications@geos.ed.ac.uk

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www.facebook.com/geosciences
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www.facebook.com/geosciences
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Illustration by:
Katy Wiedemann, MA Illustration student

The front cover shows an Ichthyosaur skull from the Hettangian, 201-197 million years ago, the earliest stage of the Jurassic period. Formerly belonging to a member of our academic staff, it is believed to have been found either in Lyme Regis or on Skye and is now held in our Centre for Research Collections.

#drawntoedinburgh

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