

# Careers Days 2020 20-23 October



The  
Geological  
Society

*-serving science, profession & society*

## A message from the President:

I would like to welcome you to the Geological Society's first-ever virtual Careers Days. Given the global context it would be easy to be gloomy about the future. However, if we look at what is happening in the Earth sciences there is opportunity and much to be optimistic about, from infrastructure projects to academic research. The UK is investing in generational infrastructure that requires immense geotechnical and environmental input. The mineral industry is responding to the challenge of supply security of essential metals for a low carbon world. In addition to securing a sustainable future for the UK's petroleum industry, new efforts and funds are going into geothermal energy and the management of radioactive waste. Research funds are flowing into both planetary exploration and new generations of satellites that can do anything from measuring earth's methane emissions to mapping shrinking ice sheets.

The Earth sciences are vital to all of the activities above and more. I trust that over the next four days the many exciting career options available will become apparent, and that you will be inspired by the possibilities you hear about.

Michael Daly  
President, The Geological Society

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## 20-23 October



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### Tuesday 20 October

09.45 BST	Intro John Booth, Council, VP
10.00 BST	Contaminated land & Environmental Geoscience
10.45 BST	Geo-engineering & geotechnical
11.30 BST	Break
11.45 BST	Hydrogeology
12.30 BST	Lunch
13.45 BST	Intro Jim Griffiths, Council, Professional Secretary
14.00 BST	Chartership & CPD
15.15 BST	Beyond coursework: demonstrating emotional intelligence, initiative, and curiosity

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### Wednesday 21 October

09.45 BST	Intro Lucy Williams, Council
10.00 BST	Oil & Gas
10.45 BST	Renewable Energy
11.30 BST	Break
11.45 BST	Mineral Exploration
12.30 BST	Lunch
13.45 BST	Intro Gemma Sherwood, Council
14.00 BST	CV Guidance, cover letters & networking
15.15 BST	What I wish I knew before I started...



University of  
St Andrews

# MSc Strategic Earth Resources



For more details contact [earthsci@st-andrews.ac.uk](mailto:earthsci@st-andrews.ac.uk)  
[www.st-andrews.ac.uk/earth-sciences/prospective/pgt](http://www.st-andrews.ac.uk/earth-sciences/prospective/pgt)  
The School of Earth & Environmental Sciences,  
University of St Andrews, Scotland

## Newly launched for 2021 entry

The St Andrews MSc in Strategic Earth Resources is a one-year postgraduate degree designed to prepare students for the challenges in 21st century resource exploration. It combines core knowledge, fieldwork, seminars, and a research dissertation, and covers both the fundamental geological knowledge and skills required for modern mineral exploration targeting, and also the economic, environmental, and social (ESG) aspects of mining.

The MSc provides a fundamental grounding in ore-forming processes and exploration techniques, as well as hands-on classroom and field training in the latest digital mapping techniques and geochemical modelling. Knowledge is consolidated through an independent research dissertation and a field course, which for 2021 entry is planned to be in South Africa. The MSc is targeted at quantitative geoscience graduates seeking a career in the resources industry or preparation for an applied PhD, and at professional exploration geologists with several years industry experience seeking to move into an exploration strategy role.

The University of St Andrews is a charity registered in Scotland, No: SC013532.

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### Thursday 22 October

09.45 BST	Intro Jessica Smith, Council, VP Regional Groups
10.00 BST	Geohazards
10.45 BST	Academia & research
11.30 BST	Break
11.45 BST	Planetary science & remote sensing
12.30 BST	Lunch
13.45 BST	Intro Joel Gill, Council, Secretary Foreign & External Affairs
14.00 BST	Postgrad pathways
15.15 BST	End

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### Friday 23 October

09.45 BST	Intro Michael Kehinde
10.00 BST	Public sector careers
10.45 BST	Climate change & adaptation
11.30 BST	Break
11.45 BST	Non-traditional career paths
12.30 BST	Lunch
13.45 BST	Intro Tom Backhouse
14.00 BST	Forging a unique career path (part one)
15.15 BST	Forging a unique career path – transferable skills (part two)



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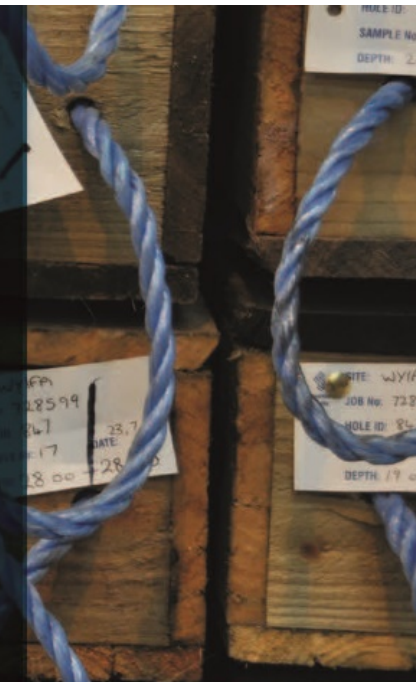
It is a national company with offices in Bristol, Castleford (near Leeds), Coventry, Hemel Hempstead, Glasgow, Wigan and Tonbridge. For over 50 years, we have provided comprehensive site investigation and ground investigation services across the UK.

The company's experience gives it sound and knowledgeable understanding of all aspects of geotechnical and geoenvironmental engineering, and its staff are always ready to give advice. As the company operates 30 varied boring and drilling rigs with low pressure and sonic capabilities and has direct access to an additional 70+ drilling rigs through sister companies, an investigation can be designed and resourced to suit the client's requirements and to obtain information in the most efficient manner.

Structural Soils has four UKAS-accredited laboratories supporting its UK operations including a Red laboratory. From these facilities, we undertake a wide range of conventional and unconventional soil, rock and materials testing, including high-pressure consolidation, effective stress, rock abrasivity and elastic properties tests and cyclic triaxials.

We are pleased to announce the expansion of our fleet with the addition of two sonic drilling rigs.

To find out more about Structural Soils, its new sonic rigs or any of its services, please contact **Eric Downey (0117 947 1000)** or email [eric.downey@soils.co.uk](mailto:eric.downey@soils.co.uk) or contact [ask@soils.co.uk](mailto:ask@soils.co.uk)





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## Session details

### Tuesday 20 October

#### **Contaminated Land and Environmental Geoscience:**

Roni Savage, CGeol, CEng: Founder and CEO of Jomass Associates

Leanne Melbourne, PhD: Lecturer at Bristol University

Ross Goodband: Senior Environmental Engineer at M-EC Consulting

#### **Geoengineering and Geotechnical**

James Purrington: Tailings Engineer at Golder

Wesley Dixon: Geotechnical Engineer at Structural Soils

Craig Parry, CGeol: Engineering Geologist at Atkins

Sarah Bennett: CC Ground Investigations

#### **Hydrogeology**

Joshua Roberts: Graduate Hydrogeologist at Atkins

Alison Parker, PhD: Senior Lecturer at Cranfield Water Science Institute

Ruth Buckley: Hydrogeologist at the Environment Agency

#### **Workshops**

Chartership and CPD: *Alexandra Sarney, PhD (The Geological Society), Andre Mazur (Fugro), Alex Deltenre (Atkins Global), Helen Smith (Leap Environmental)*

Beyond coursework: demonstrating emotional intelligence, initiative, and curiosity: *Neil Morris (Wardell Armstrong), Lucy Cotton (GeoScience Limited), Edith Wilson (Rock Whisperer - Energy Solutions) and James Batham (Atkins Global)*

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## Session details

### Wednesday 21 October

#### Oil and Gas

Helen Smyth, PhD: Domain Owner for Basin Analysis at Halliburton

James Preston: Production Geologist at Shell

Dorota Beckett: Petrophysicist at Premier Oil

#### Renewable Energy

Helen Robinson: Co-founder of Geothermal Villages Project

Benedict Robbins: Project Geophysicist at Furgro Marine

Clare Baxter: Technical Sales Advisor at Seequent

#### Mineral Exploration

Nicholas Gardiner: PhD: Lecturer at the University of St Andrews

Will Jones: Senior Exploration Geologist at Cemex

Huw Richards: Exploration Geophysicist at Altus Strategies

#### Workshops

CV Guidance, cover letters & networking: *Rachel Taylor (Careers Consultant Edinburgh University), Liz Withington (CC Ground Investigations Ltd), Eric Downey (Structural Soils), Peter Bottomley (Subsurface Global)*

What I wish I had known before: *Jason Canning (RPS Geoscience Advisor), Rebecca Jones (Hurricane Energy), Alex Clarke (Cairn Energy)*

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For those with a geological background, potential roles could include quarry management, geology or hydrogeology-focused positions, or even joining our technical team.

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## Session details

### Thursday 22 October

#### Geohazards

Hayley Larkin: InSAR Scientist at CGG

Joel Gill, PhD: International Development Geoscientist at BGS, Founder of Geology for Global Development

Andy Bell: Senior Lecturer at The University of Edinburgh

#### Academia and Research

Bramley Murton, PhD: Associate Head of Marine Geoscience at the National Oceanography Centre

Paul Savage, PhD: Lecturer at the University of St Andrews

Louisa Brotherson: PhD scholar at the University of Liverpool

#### Planetary Science and Remote Sensing

Sanjeev Gupta, PhD: Professor at Imperial College London

Philippa Mason: Senior Teaching Fellow at Imperial College London

Charlotte Bishop: Remote Sensing Projects Manager at CGG

#### Workshops

Postgrad Pathways: *Benjamin Fernando (University of Oxford), Mohamed Gouiza (University of Leeds), Frances Cooper (University of Bristol)*



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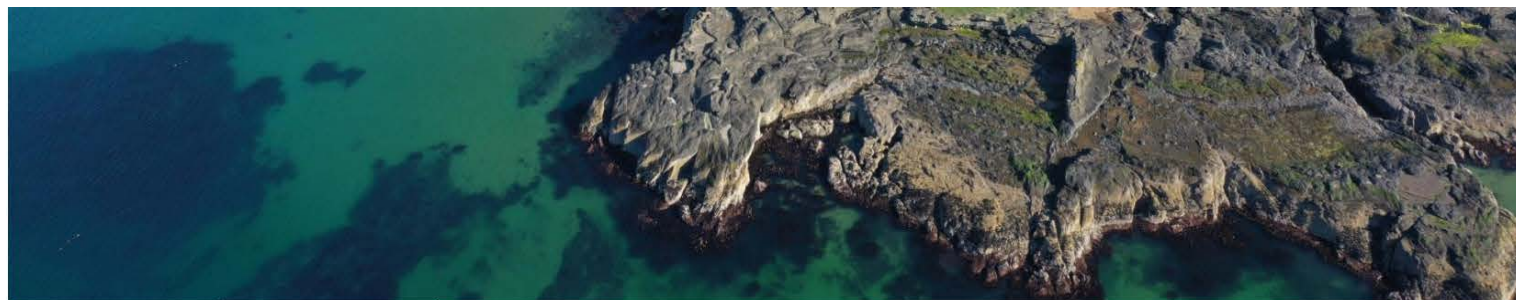
# School of Earth and Environmental Sciences



## Studying at St Andrews

A dynamic and research-intensive School, students will interact with staff, postdoctoral research fellows and other postgraduate students in Earth & Environmental Sciences who study a wide range of topics across the Earth sciences.

For more details contact  
[earthsci@st-andrews.ac.uk](mailto:earthsci@st-andrews.ac.uk)  
[www.st-andrews.ac.uk/earth-sciences](http://www.st-andrews.ac.uk/earth-sciences)



## Postgraduate opportunities

### MSc Geochemistry

This broad and rigorous MSc provides preparation for either pursuing a PhD, by incorporating a lab-based research dissertation, or direct employment in industry through incorporation of applied economic and environmental geochemistry modules.

### MSc Strategic Earth Resources NEW!

Our new MSc is targeted at both new quantitative geoscience graduates seeking a career in the resources industry and/or preparation for an applied PhD, but also at professional exploration geologists with several years industry experience seeking to move into an exploration strategy role.

### PhD Earth and Environmental Sciences

The PhD (Doctor of Philosophy) research degree is typically 3 to 3.5 years full time and is completed upon submission of a substantial thesis of original research. We advertise funded projects (including NERC funded IAPETUS DTP studentships), or you can contact one of our academics if you wish to discuss an alternative project.

### MSc(Res) Earth and Environmental Sciences

The MSc(Res) (Master of Science by Research) is a one year research based masters degree. Students will engage in a full time research project and write a dissertation. This is an excellent opportunity to spend a shorter time in a research environment either for a standalone degree or as preparation for a PhD.

### Facilities

The School houses state-of-the-art stable and radiogenic isotope geochemistry laboratories (STAiG). Other laboratories include geobiology, rock magnetism (M3ORE), luminescence spectroscopy, SEM and electron microprobe, X-ray diffraction and X-ray fluorescence.



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## Session details

### Friday 23 October

#### Public Sector Careers

Michael Kehinde: Technical Specialist at the Environment Agency

Gareth Johnson: Research Fellow at the University of Strathclyde

Tim Kearsley: Sedimentologist at BGS

#### Climate Change and Adaptation

Edith Wilson: President & CEO Rock Whisperer (Energy Solutions)

Alexandra Mitchell: Senior Environmental and Social Specialist at Wardell Armstrong International

Megan Allison: Environmental Consultant at Golder

Megan Pearce: Scientific Consultant at the Met Office

#### Non-traditional roles

Anjana Khatwa, PhD: Earth Science Presenter and Educator and Diversity Advocate

Dan Boatright: Geology and Geography Teacher at Joseph Chamberlain Sixth Form

Emma Bernard: Fossil Fish Curator Natural History Museum

#### Workshops

Forging a unique career path I: *Tom Backhouse (TerraFirma), Edd Lewis (BGS), Hollie Fischer (Atkins Global), Alicia Newton (The Geological Society)*

Forging a unique career path II – transferable skills: *Naila Khairallah (Independent Environmental Consultant), Sarah Payne (RMS), Peter Burgess (University of Liverpool), Paul Morley (Newmont Mining Corporation),*



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