

CARDIFF  
UNIVERSITY

PRIFYSGOL  
CAERDYDD

School of Earth  
and Ocean Sciences

Ysgol Gwyddorau'r  
Ddaear a'r Môr



# MSc APPLIED ENVIRONMENTAL GEOLOGY

Professional training for industry-ready postgraduates

# MSc Applied Environmental Geology

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Our MSc in Applied Environmental Geology will help you develop all of the skills required for the geo-environmental, geotechnical, consulting and regulatory industries. The course has been running for 25 years and its enduring popularity means we have now trained over 700 postgraduate geologists.

With a vocational focus, the programme includes a five month individual applied dissertation project where we endeavour to place students with companies, consultancies, government agencies or University applied research projects. It also includes compulsory fieldwork to maximise your transferable skills.

*“The dual coverage of Geotechnical and geoenvironmental aspects within the course really prepared me for a career in ground investigation. I have been able to draw on content from a variety of modules which I feel gave me the edge in a recent (successful) job interview for a new role.*

*The hands on and practical nature of the course meant that when I left and started my first ‘proper’ job I not only felt well prepared for the tasks at hand, but also like I already had a year’s experience in industry under my belt.”*

**Rhian Lynes, MSc Applied Environmental Geology**



## Distinctive features

- Our location in South Wales provides us with a wide range of highly relevant geo-environmental and geotechnical locations, which we visit during fieldtrips and use in case studies.
- Accredited by the Geological Society of London; upon completion the MSc can be used towards registration as a professional chartered geologist (C. Geol).
- Embed your skills in professional practice through a five month professional project, usually as part of a placement.
- Strong links with industry and government agencies ensure the quality and relevance of the course and give you the opportunity to make contacts.
- Fully integrated with the professional development (CPD) lecture programme of the Southern Wales Group of the Geological Society of London.

## Structure

In Stage 1 of the course (September-April), you will complete a Cardiff-based taught programme of lectures, lab practicals, IT training and field skills training days that provide a sophisticated knowledge of general themes such as the principles of geotechnical engineering and geophysics.

On passing all Stage 1 (you will need to obtain 50% in combined coursework and examination grades) you will progress to Stage 2, which consists of your five-month professional placement (May-September), during which you will complete a research project and write a dissertation.

This project can be based anywhere. Many students return to their home to complete their placement with a local company, which means that they do not have to pay for extra living expenses.



## Industry Placement Scheme

You will undertake a five-month professional placement in industry as part of the second stage of the course during which time you will also undertake a research project and complete your dissertation. Your placement may be located in the UK or overseas, as long as the project is logistically safe and academically viable. We make every effort to place students with industrial partners.

*“The unique nature of the Applied Environmental Geology MSc ensures that graduates gain experience and the essential skills to transition effortlessly into industry.”*

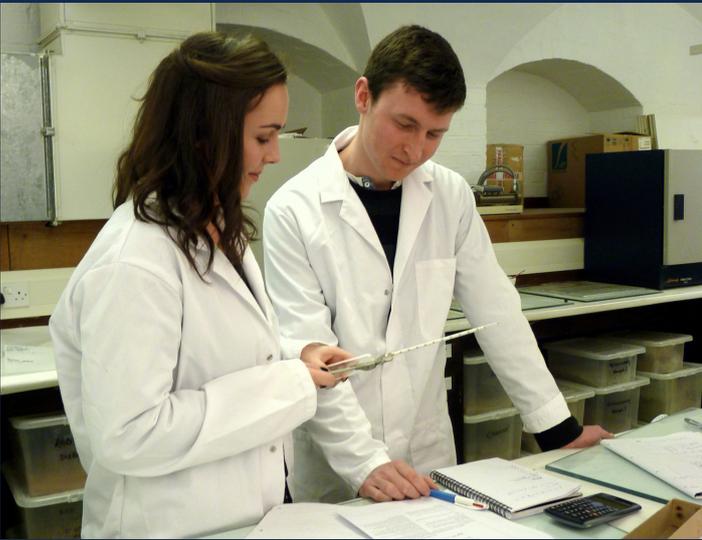
**Paul Maliphant**  
*Development Director, Mott MacDonald*

## Fieldwork

South Wales provides a wide range of highly relevant geo-environmental and geotechnical case studies for site visits, such as Cardiff Bay barrage, acid mine drainage and active landslides in the South Wales Valleys.

Past fieldwork has included rock engineering in the Rhondda Valley and Cardigan, site investigation visits in the Mumbles, and contaminated land studies at Barry Docks and Bryn Pica landfill site.

All fieldwork is a compulsory element of this course.



### Industry-ready postgraduates

Our emphasis on transferable skills, with compulsory fieldwork and a professional placement, means that our industry-ready graduates are in high demand.

This MSc can lead to a successful career in consultancy, regulatory authorities or government agencies across the world. It also provides a solid foundation for PhD study and a career in research.

Graduates of this course can be found working for the likes of Network Rail, Mott McDonald, Natural Resources Wales, Environment Agency England, WSP, Ove Arup, Atkins, and numerous other specialist geo-environmental consultancies and agencies.

### Studying at Cardiff

Our School is a unique place to explore the internal and surface workings of our planet. We are located within close proximity to a variety of different environments which are ideal for exploring the complexities of the Earth and oceans. In studying with us, you can make the most of the incredible surrounding countryside and ocean landscapes whilst benefitting from all the conveniences that Cardiff, the capital city of Wales, can provide.

### Contact information

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