



## MRes GEOLOGICAL SCIENCES

### University College Cork and the School of Biological Earth and Environmental Sciences

University College Cork is one of Ireland's oldest higher education institutions. Originally founded in 1845, UCC is now internationally acclaimed as one of Ireland's leading research institutions. The School of Biological, Earth and Environmental Science (BEES) incorporates the disciplines of Geology, Environmental Science, Ecology, Zoology and Plant Science. BEES is a recognised leader in teaching and research across all of our disciplines. See [www.ucc.ie/en/bees/](http://www.ucc.ie/en/bees/) or follow us on twitter @uccBEES or our facebook page.

### Overview of the Programme

The MRes in Geological Science (CKS82) is a new research-intensive, 12-month programme launched in 2016. It aims to recruit highly-motivated, enthusiastic students with a strong interest in research. The programme combines a research project (70 credits) with taught modules (20 credits) chosen to enhance each student's individual skill set. The MRes is offered as a full time course, with start dates in either September or January.

### Research project (70 credits)

The extended project is the focus of the MRes and will be expected to represent cutting-edge, original research conducted under the close supervision of internationally recognised staff at the School of BEES. Projects will focus on the geological sciences including igneous and metamorphic petrology, structural geology, sedimentology, palaeontology, marine geology, palynology and applicants are in general encouraged to suggest projects that foster collaborative research with external agencies.

### Taught modules (20 credits)

In parallel with the research project, students must pass taught modules to the value of 20 credits selected from the following list:

- GL6020 Hydrogeology, Contaminated Land and Assessment (10 credits)
- GL6021 Engineering Geology (10 credits)
- GL6022 Environmental Planning and Regulation (5 credits)
- GL6023 Offshore Environmental Geology (5 credits)
- GL6024 Applied Geophysics (5 credits)
- GL6025 Geoinformatics for Environmental Geology (5 credits)
- GL6026 Field Geology Techniques (5 credits)



- GL6027 Industry Case Studies (5 credits)
- EV6011 Environmental Monitoring and Assessment (10 credits)
- GL4004 Advanced Igneous Processes
- GL4011 Economic Geology
- GL4024 Exceptional Glimpses of Ancient Life
- GL4027 Geochemistry

Further details of these modules can be found here: <http://www.ucc.ie/modules/>  
Additionally a whole range of postgraduate modules (see modules beginning with PG) is also potentially available, subject to space availability on the module.

### Career Prospects

The MRes is designed to give you a strong start in your scientific research career. Students will gain invaluable experience in many key skills required by employers or in preparation for a PhD, including: project design and planning, experimental design, data management and statistical analysis, scientific writing, presentation skills, proposal writing, laboratory research techniques, information literacy and science communication. The MRes will therefore help you compete if applying for PhD positions or when seeking employment in the private or public sectors (e.g. in environmental consultancy, mineral and hydrocarbon exploration industries).

### Eligibility and Entry

Successful applicants must possess an Honours primary degree (minimum 2.1 Honours or equivalent) in an area relevant to the Geological Sciences. Candidates must be approved by the MRes Coordinator and Programme Team, including the Head of School of Biological, Earth and Environmental Sciences. The number of places is limited and decisions on entry to the programme will be made following an interview. Prospective students are advised to contact the Programme Coordinator (Prof. Andy Wheeler [a.wheeler@ucc.ie](mailto:a.wheeler@ucc.ie) in advance of application via [www.pac.ie](http://www.pac.ie) (PAC code CKS82) to discuss possible project areas.



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