GEOLOGICAL OCEANOGRAPHY

PRIFYSGOL BANGOR UNIVERSITY

"The sense of community within the School is what makes the School so special. The people, place and atmosphere can't be found anywhere else, which is why I'm also doing an MSc here!"
EMMER LITT
GEOLOGICAL OCEANOGRAPHY GRADUATE

The Earth's history is recorded in sediments and rocks. Studying these provides insight into the processes that have shaped and continue to shape the planet. The study of geological oceanography is central to many of the environmental challenges facing humans in the 21st Century.

COURSE OVERVIEW

Geological Oceanography is the study of sediments in oceans and seas, their interaction with major global processes (e.g. climate change, sea-level rise), and their impact on the environment (e.g. pollution, ecosystem sustainability). It is a subject that encompasses present day marine sedimentary processes: the origin, transport and deposition of sediments in the marine environment. This requires an oceanographic perspective that emphasises the role of physical, chemical and biological processes in the world's oceans. It is also a subject that focuses on past marine deposits, in particular those formed during the extreme climatic changes of the Quaternary period (i.e. from 2.5 million years ago to the present): this adds the geological perspective.

WHY CHOOSE BANGOR?

We have a long tradition of teaching in the marine sciences, and have established ourselves at the forefront of international marine research. In achieving this we have recruited a team of world leading researchers who cover the full spectrum of marine geology, physics, chemistry and biology. We have some of the best facilities for studying the marine environment in the UK.

We are based on the shores of the Menai Strait, on the Isle of Anglesey, surrounded by amazing field sites, from beaches to mountains, where we regularly take students to learn about geology in the field.

WHO SHOULD STUDY THIS?

Geological Oceanography is a course for students interested in geology within the context of the marine environment. It is for students who wish to pursue a science-based degree course with emphasis on practical skills and fieldwork.

CAREER PROSPECTS

A high proportion of graduates in Geological Oceanography move into careers in the offshore industry (e.g. engineering and surveying), in marine environmental consultancy (e.g. environmental impact assessment), the water industry (e.g. water quality control) and oil companies (e.g. exploration). Many go on to pursue higher degrees (M.Sc. and Ph.D.) in marine geosciences. Some move out of marine science altogether but will find that they can apply many of the skills they have learnt including information technology, communication and report writing skills, practical problem solving, and group working, to a wide variety of careers.

WHERE ARE YOU TAUGHT?

The School of Ocean Sciences is located on the seashore in Menai Bridge on the Isle of Anglesey, about three miles from the main University site in Bangor. Most of your first and second year learning will take place in Bangor in the University lecture theatres that are close to the Halls of Residence, Students Union and Sports facilities. You will come to Menai Bridge for practicals and tutorials. In your final year, most of your learning will take place in Menai Bridge. Most final year students choose to remain close to the University social scene by living in Bangor and commuting daily to Menai Bridge, but a significant proportion do find accommodation in the pleasant environment of Menai Bridge town itself.

FIRST YEAR

The first year of the Geological Oceanography degree provides you with a fundamental understanding of important elements of marine science, including geology, oceanography and fundamental research skills. You will study through lectures, tutorials, laboratory practicals and fieldwork to develop essential skills that provide the foundation for your development in future years.

SECOND YEAR

You will deepen your knowledge of earth science and the oceans, as well as further developing essential practical skills at sea and in the field and laboratory. You will conduct a multidisciplinary research project providing a taster for interdisciplinarity in research.

THIRD YEAR

In the final year you will put the concepts you learned into practice. Modules will present more complex theories. You will undertake the coastal sediments field study as part of our annual residential field trip to the Taf Estuary in South Wales (at the end of your second year), putting the skills you have learned to the test. Overall, you will develop a deeper understanding of geological oceanography and prepare for life as a graduate.

Detailed module information is available at: http://seasci.uk/go

ENTRY REQUIREMENTS

112 - 128 points at A2/AS level (or equivalent) including A2 in two science subjects (Physics, Maths, Chemistry, Biology, Geography, Geology, Environmental Science), plus Grade C in GCSE Maths, Core Science and English. We consider Access and BTEC National Diploma applicants and mature students on an individual basis.

FURTHER INFORMATION

Admissions Administrator
School of Ocean Sciences
Bangor University
Menai Bridge, LL59 5AB
Tel: 01248 382851
sos-ug-admissions@bangor.ac.uk
www.bangor.ac.uk/oceansciences

APPLICATION PROCEDURE

Applications must be made via UCAS (www.ucas.ac.uk).
UCAS code F650.

Scan the QR code or visit the link below: http://seasci.uk/go to learn more about our Geological Oceanography course.

Learn about the blue planet with world leading experts at the School of Ocean Sciences