



UNIVERSITY  
OF ABERDEEN



## Petroleum Engineering at the University of Aberdeen

The University of Aberdeen is proud to offer degree programmes in Petroleum Engineering. The degrees of MEng/BEng in Petroleum Engineering will train engineers for the oil and gas industry who will have a clear and deep understanding at an inter-disciplinary level, including Petroleum Geoscience and Chemistry.

The University of Aberdeen has a proven track record in delivering high-quality accredited Engineering programmes, and top-level graduates. Students benefit from tuition by research active staff, and from the close proximity and good working relationships with industry. Aberdeen is at the heart of the energy industry in Europe, and is an international centre of excellence in exploration & production of oil & gas, both in the 'North Sea and in many other overseas provinces using resources based in Aberdeen. The combination of these factors makes it possible to offer a curriculum that is both close to cutting-edge research and highly focussed towards the needs of employers.

The programme covers areas such as:

- Engineering Mathematics
- Engineering Science
- Physical Chemistry for Engineers
- Applied Mechanics and Structures
- Materials Forming our Dynamic Earth
- Materials and Structures
- Reservoir Geology
- Engineering Design
- Chemical Engineering
- Fluid Mechanics and Thermodynamics
- Engineering Analysis and Methods
- Engineering Materials

- Process Modelling and Control
- Principles of Petroleum Geology
- Drilling Engineering
- Economics, Resource and Safety Management
- Petroleum Fluid Properties
- Multi-phase flow
- Safety and Reliability Engineering
- Well Engineering and Completion
- Reservoir Modelling
- Advanced Petroleum Process Control
- Individual Project/Placement

Students on the MEng will also study:

- Gas Production Engineering
- Subsea Control Systems
- Advanced Separation and Production Engineering
- Fracturing in Reservoirs
- Engineering Management
- Stimulation and Enhanced Production
- Group Project Work

College of Physical Sciences - School of Engineering

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