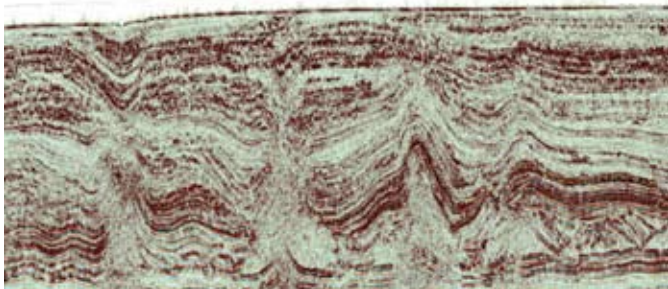


Petroleum Geoscience MSc

Petroleum Geoscience MSc

This degree provides training for geoscientists who wish to pursue a career in the oil industry working in exploration for oil and gas. The internationally renowned course benefits from being an integral part of one of the largest petroleum geoscience research institutions in the UK. You will benefit from our world-class research and teaching facilities, including geochemical, sedimentological, petrophysical and geophysical laboratories. A number of graduates from the programme choose to continue their studies by progressing onto a PhD.

Petroleum Geoscience at Manchester runs a dedicated MSc teaching facility, comprising a 30-seat workstation suite, with access to all leading oil industry software, including Schlumberger Petrel, Paradigm VoxelGeo, Kingdom Suite, plus various well-log analysis and geochemistry/basin modelling packages. 3D visualisation for research and training is provided within the School.



Course structure

This course has strong links with international oil companies and a proven track record for training in exploration and production geoscience to meet the needs of the oil industry. The teaching team is led by Professor Jonathan Redfern – Chair of Petroleum Geoscience, who has many years of experience with international oil companies – and includes leading researchers and experienced petroleum geoscientists. There is a strong industrial component; several course units are taught by industry specialists and there is potential to undertake research projects linked to oil companies.

Course units offered include:

- Geophysical Imaging and Interpretation
- Petroleum Economics and Risk Analysis
- Basin Studies and Modelling
- Petroleum Geochemistry
- Petrophysics/Formation Evaluation
- Play Fairway and Prospect Evaluation
- Reservoir Characteristics and Modelling
- 3D Seismic Interpretation and Visualisation
- Wellsite and Operations Geology
- Management and Communication Skills

Fieldwork

The course combines academic excellence with industrial application. Students are expected to meet rigorous academic standards and to develop key analytical expertise. From October to April, taught courses comprise lectures, practical exercises, tutorials and group projects. From May to September, you specialise while undertaking an independent research project, often carried out within the offices of a sponsoring oil company, providing valuable work experience. Fieldwork is also an important part of the course. Field trips are taken within the UK and at least one trip is overseas each year.

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Career opportunities

Graduates from this programme typically follow career paths in the petroleum sector; with major international oil companies, service companies, the growing number of consultancies, government institutions, or the financial sector. Others continue their studies with PhD training.

Entry requirements

A good Honours degree in Geology, Geophysics, Petroleum Engineering or related discipline. Work experience may also be taken into account. Overseas students need to demonstrate competence in English language (minimum IELTS score of 6.5).



Scholarships

Funding for places on the MSc are available from NERC, oil company scholarships and University bursaries. NERC provide three fully funded scholarships annually (full tuition and living expenses) for UK students on the Petroleum Geoscience course. These are awarded on a competitive basis, following interviews in March. Industry scholarships, ranging from £5,000 up to £15,000, are advertised annually. This year BP have announced a major sponsorship programme for the University of Manchester, which will include places on the Petroleum Geoscience MSc. All eligible applicants will be advised of these scholarships after they have applied for the course. For international students, there are other specific oil company scholarships available, and government schemes (such as PTDF Nigeria).

