

## Master of Engineering

# PETROLEUM ENGINEERING

**Taught by world-class industry experts, to equip you with highly specialised skills to solve future energy challenges.**

According to the world's leading energy forecasting entity, the International Energy Agency (IEA), the oil and gas demand will continue for many decades in order to support the energy needs of a growing world population. Significant petroleum engineering investment will still be needed for years to come.

The Master of Engineering (Petroleum Engineering) incorporates lectures and project work, with a wide range of engineering fundamentals, relevant to the modern petroleum industry.

If you are already working, the program allows for flexible studies with eight technical courses, delivered in intensive lecture blocks of four to six days. Lecturers include experts from UQ and experienced guest lecturers from the oil and gas industry, and you will meet potential employers from an early stage.

Courses are hands-on in nature so that you are technically well prepared for and have a sound knowledge of industrial practices. Field Development Project work in the final semester applies ideas and methods to

evaluate real oil and gas fields and to design plans for resource development.

The cohorts generally consist of mature students – domestic and international – with diverse work experience, which makes sharing knowledge and experience an inherent part of this program.



## Master of Engineering (Petroleum Engineering)

Program code: 5674

### Program duration

2 years full-time (or part-time equivalent)

### Location

St Lucia

### Study mode

Internal

### Entry requirements

Entrants to the program will normally have an Honours degree in engineering or a relevant science discipline such as geology, physics, chemistry or mathematics. In addition to the academic qualifications, relevant industrial experience is taken into consideration.

### English language proficiency requirements

To meet UQ's English Language proficiency requirements, you must demonstrate one of the following:

- A score equivalent to four semesters of Sound Achievement in Queensland Studies Authority English or Australian or international equivalent.
- An IELTS overall score of 6.5, with a score of 6 in writing, reading, speaking and listening.

For other English Language Proficiency tests and scores approved for UQ, visit:

[future-students.uq.edu.au/english-requirements](http://future-students.uq.edu.au/english-requirements)

## How to apply

Information about application procedures can be found at:

[future-students.uq.edu.au/apply/international](http://future-students.uq.edu.au/apply/international)

### Fees

For the most up-to-date program fees, please type in the name of your program at: [uq.edu.au/study](http://uq.edu.au/study).

Fees are subject to annual indexation. [ppl.app.uq.edu.au/content/3.40.03-international-student-refunds](http://ppl.app.uq.edu.au/content/3.40.03-international-student-refunds)

## What you will study

Below are some indicative course plans you may choose to follow.

For full course lists and more information, please visit: [uq.edu.au/study](http://uq.edu.au/study)

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Year 1	
Semester 1	Semester 2
Professional Engineering and the Business Environment Global Practice	Geosciences for Petroleum Engineers
Impact and Risk in the Process Industries	Well Logging for Petroleum Engineers
Production Technology	Engineering Innovation and Leadership
Reservoir Simulation	Drilling Engineering
Year 2	
Semester 3	Semester 4
Well Test Analysis	Elective Or Engineering Project
Petroleum Project Economics and Decision Making	Elective Or Engineering Project
Individual Project or Engineering Project	Field Development Project (group project)

### Skills development

Students will gain experience with world-leading industry simulation software, doing assignments drawn from real industry work flows. They will develop data and risk analysis skills plus undertake an individual project, most often in collaboration with industry; critical thinking being the backbone of the teaching.

Students get exposure to industry-experienced professors, industry senior technical experts as well as senior industry management. They will benefit from an integrated style of learning and put new knowledge to the test in our specialist facilities and labs plus learn from field trips to local oil and gas companies.

Not least will students become part of the university as a leading provider of research in unconventional gas whose aim is to educate professional and industry-ready engineers, who are either upskilling or starting a new career.

### Career opportunities

During your studies, you will have access to the UQ employability staff who – along with your teachers – can support and advise you to find internships and relevant work experience etc.

Australia's oil, gas and energy industries play a key role in the economy, underpinning the economic performance of the transport, mining and agriculture sectors. As a Petroleum Engineer, you can find yourself working for some of the world's largest companies looking to develop new methods for extracting oil and gas.

With the ever-increasing need for energy globally, the future economic growth of the modern industry looks definite, and as a graduate you will also find many international job opportunities.



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**+61 3 8676 7004**  
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OF QUEENSLAND**  
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