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

How to apply
Information about application procedures can be found at: 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.
 Fees are subject to annual indexation. 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

Master of Engineering (Petroleum Engineering)

Year 1

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<th>Semester 1</th>
<th>Semester 2</th>
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<td>Professional Engineering and the Business Environment Global Practice</td>
<td>Geosciences for Petroleum Engineers</td>
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<tr>
<td>Impact and Risk in the Process Industries</td>
<td>Well Logging for Petroleum Engineers</td>
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<td>Production Technology</td>
<td>Engineering Innovation and Leadership</td>
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<td>Reservoir Simulation</td>
<td>Drilling Engineering</td>
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Year 2

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<th>Semester 3</th>
<th>Semester 4</th>
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<td>Well Test Analysis</td>
<td>Elective Or Engineering Project</td>
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<tr>
<td>Petroleum Project Economics and Decision Making</td>
<td>Elective Or Engineering Project</td>
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<tr>
<td>Individual Project or Engineering Project</td>
<td>Field Development Project (group project)</td>
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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.