ENGINEERING AND TECHNOLOGY

2018
Postgraduate

Computer Science
Data Science
Engineering
Engineering Science
Information Technology
Interaction Design
Petroleum Engineering
Responsible Resource Development
Sustainable Energy
TOP REASONS TO CHOOSE UQ

SUCCESSFUL GRADUATES
Higher than national averages for full-time graduate employment rates and salaries

GREAT EXPERIENCES
Long- and short-term overseas study exchange, vacation research programs and more

GLOBAL CONNECTIONS
Extensive graduate network, strong industry partnerships and many notable alumni
TOP REASONS TO CHOOSE UQ

More national teaching awards than any other Australian university*  
*As at December 2015, UQ has received 114 Citations for Outstanding Contributions to Student Learning, Awards for Teaching Excellence, and Awards for Programs that Enhance Learning.

EXCELLENT TEACHERS

Global research powerhouse with all fields at or above world standard**  
** 2015 Excellence in Research for Australia (ERA) assessment.

LEADING RESEARCH

Most comprehensive range of programs and courses in Queensland

HIGH-QUALITY PROGRAMS

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Most comprehensive range of programs and courses in Queensland

HIGH-QUALITY PROGRAMS

ACCESSIBLE LOCATIONS

Three easy-to-access campuses – catch public transport, ride, walk, or drive

VIBRANT LIFESTYLE

Dynamic sports and cultural activities, 200+ clubs and societies

WORLD-CLASS FACILITIES

Continuously improving teaching, learning, sporting, and research spaces
STUDY OPTIONS

Postgraduate study is an excellent way to develop advanced skills that build on the knowledge and expertise gained from your previous study and your unique industry experiences. There is flexibility in most programs with full-time, part-time and intensive study options for domestic students. International students are required to complete programs on a full-time basis.

What qualification will work best for you?

You can undertake postgraduate studies in engineering and information technology at a range of different qualification levels. The range of programs fall into the following categories:

Coursework programs

**GC GRADUATE CERTIFICATE**

A short program that covers the fundamentals of a particular discipline and may provide an alternative pathway to upgrade to the graduate diploma or master’s (two-year) program. The graduate certificate is suitable for those who may not necessarily have prior tertiary study, but who have completed some post-secondary study or relevant work experience. All work experience must be approved by the Faculty’s Executive Dean.

**GD GRADUATE DIPLOMA**

Includes the core courses from the graduate certificate with the addition of individually selected courses from various fields of study. It may provide an alternative pathway to upgrade to a master’s (two-year) program (credit may be applied, subject to approval). The graduate diploma is a good option if you wish to return to study and are unsure about committing to the time required for a master’s. It is also suitable if you want to upgrade your GPA to be eligible for a master’s program.

**M MASTER**

This program is suitable for industry professionals and for those looking to advance their career. A master’s qualification is highly regarded by employers worldwide. Master’s programs vary in duration. In some cases, the addition of the research thesis component may provide a pathway to higher degree by research programs, including the Master of Philosophy (MPhil) or Doctor of Philosophy (PhD).

Higher Degree by Research

**MPhil MASTER OF PHILOSOPHY**

The Master of Philosophy (MPhil) is a higher degree by research program focusing on a specialised research area. The program provides a pathway for progression to the Doctor of Philosophy program. It requires two years’ full-time (or part-time equivalent) study. This program differs from other master’s programs in that it involves a significant research component, which forms the basis for a thesis.

**PhD DOCTOR OF PHILOSOPHY**

The Doctor of Philosophy (PhD) is a three-to four-year full-time (or part-time equivalent) program in which an area of expertise becomes the focus of a research thesis. The PhD is the highest possible level of academic study. It is a good option if you want to transition to a career in academia or research, or if you wish to achieve a high level of professional and academic engagement within your area of industry expertise.
WORK ANYWHERE IN THE WORLD
Our qualifications are recognised internationally, allowing graduates to work anywhere in the world

WIDE INDUSTRY NETWORK
Using our vast industry networks, undertake placements in some of the world's leading organisations

DEDICATED EMPLOYABILITY TEAM
Our Faculty’s Student Employability Team is dedicated to strengthening student employability and career outcomes for postgraduate students

WORLD-CLASS RESEARCH
Learn how to create positive change in your research field from our world-leading academics

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Investing in postgraduate studies in engineering will develop your skills and knowledge in areas identified as current and future priorities and will enable you to take advantage of opportunities arising from local and global challenges.

**Outstanding track record in research**

Our research is consistently cited in the world’s top-tier journals, and 10 of our engineering and technology disciplines are rated above world standard by the Australian Government’s most recent Excellence in Research for Australia (ERA) ratings.

**Tailored postgraduate curriculum**

Our tailored postgraduate curriculum takes place both on campus and at industry sites. As a postgraduate coursework student, you will be taught by academic staff who are at the forefront of their fields. As a result, teaching material is current, supported by world-class research and is relevant to the changing needs of industry.

**Learning that pushes your boundaries**

We have a reputation for strong links with industry. As a student, you can leverage our industry partnerships for real-life projects, as mentors and for internships. UQ’s reputation for high-quality teaching and research has enabled us to partner with leading global organisations and philanthropic partners to develop infrastructure, technological resources, scholarships and attract international expertise. UQ’s commercially oriented research has developed many novel and relevant technologies that have led to new commercial products via licensing or startup companies.

**Practical experience**

Extensive practical experience is available through site visits, industry work and internship placements, all of which are underpinned with advanced theory to meet industry needs. Postgraduate studies will equip you with an understanding of industry practices and focus on investigating and resolving design and operational problems in a safe and efficient manner.

For more information

eait.uq.edu.au

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### Top Rankings

- UQ’s field of engineering is ranked 60th in the world (QS World University Rankings, 2017)
- UQ is ranked 2nd in the world for Mineral and Mining Engineering (QS World University Rankings, 2017)
- Ten engineering and technology disciplines are classed as above world standard in the Australian Government’s 2015 ERA Assessment: biomedical engineering; chemical engineering; civil engineering; electrical and electronic engineering; environmental engineering; food sciences; materials; mechanical engineering; information systems; AI and image processing.
- Chemical Engineering is ranked 26th in the world (Shanghai Jiao Tong University, 2016)
- Environmental Engineering is ranked 6th in the world. (Center for World University Rankings, 2017)
- 12 national teaching awards in the last 10 years

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The world needs creative problem solvers.
The Master of Engineering provides a pathway to becoming an accredited engineer in a range of specialised disciplines.

Why study the Master of Engineering at UQ?
The Master of Engineering is designed to develop your expertise through advanced courses and specialised electives. The program is a pathway to becoming an accredited engineer and has been submitted for accreditation by Engineers Australia.

Students will develop technical expertise in their discipline through advanced and master's level courses, and with the opportunity to select electives to specialise within their discipline.

This knowledge will expertly prepare graduates with the necessary skills required to solve complex engineering challenges in a changing world.

Practical research or industry-based projects
All students complete a two-semester research project or industry placement as part of this program. This practical experience is essential in developing a comprehensive understanding of your discipline, and gives you invaluable experience in developing, managing and delivering complex projects.

Prepare for more senior, leadership roles
The 21st century engineer is someone with a truly global outlook who addresses increasingly complex and interdisciplinary challenges. UQ's Master of Engineering has been designed to include business and innovation courses so graduating students are better prepared to take on more senior, leadership roles.

Specialisations
- Chemical Engineering
- Civil Engineering*
- Electrical Engineering
- Mechanical Engineering
- Software Engineering
*Subject to final approval

Career opportunities
With a Master of Engineering, you will be in demand domestically and internationally in both the private and public sectors. You will be well placed for a career within:
- government and regulatory institutions
- consulting structural engineering and architectural firms
- contracting companies
- educational institutions
- research and testing laboratories
- insurance and banking industry, or
- forensic investigation companies.
Master of Engineering

CHEMICAL

UQ’s School of Chemical Engineering has five industry-supported centres with expertise spanning resources, minerals processing, coal seam gas research, plastics, chemicals and agricultural products.

Chemical Engineering

The Master of Engineering (Chemical Engineering) is designed to advance chemical engineers towards more senior, leadership roles in scoping and tackling the complex, interdisciplinary challenges associated with design and optimisation of industrial-scale processing of raw materials into commercial products.

Study plan

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<tr>
<th>YEAR 1</th>
<th>SEMESTER 1</th>
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<th>SEMESTER 2</th>
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<tbody>
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<td></td>
<td>Professional Engineering and the Business Environment</td>
<td>Impact and Risk in the Process Industries</td>
<td>Elective</td>
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<td></td>
<td>Engineering Innovation and Leadership</td>
<td>Process Engineering Design Project</td>
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<th>YEAR 2</th>
<th>SEMESTER 1</th>
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<tr>
<td></td>
<td>Engineering Project / Industry Placement</td>
<td>Master's Level Chemical Engineering Elective</td>
<td>Master's Level Chemical Engineering Elective</td>
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This is an indicative course plan only. You will be advised of offerings prior to course selection and enrolment. For full program information visit www.uq.edu.au/study

Our curriculum is an INFLUENTIAL BENCHMARK for educational change, recognising UQ as a global leader in engineering education.
Master of Engineering

CIVIL

During your studies, you’ll learn in the $135-million Advanced Engineering Building – a state-of-the-art facility and ‘living laboratory’ that combines teaching and research spaces.

**Civil Engineering**

This Master of Engineering (Civil Engineering) provides students with opportunity for in-depth study in the broad engineering fields, including:

- structural engineering
- water engineering
- geotechnical engineering
- transportation engineering

The program will equip civil engineering students with the necessary fundamental skills and knowledge of a modern civil engineer. All courses are taught by academics with nationally and internationally recognised expertise in their specialty areas. Students will also be able to work directly and intensively with academic mentors through a research project in their final year.

**Study plan**

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<th>YEAR 1</th>
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<tbody>
<tr>
<td><strong>Semester 1</strong></td>
<td><strong>Semester 1</strong></td>
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<tr>
<td>Professional Engineering and the Business Environment</td>
<td>Master’s Level Civil Engineering Elective</td>
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<td>Elective</td>
<td>Master’s Level Civil Engineering Elective</td>
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<tr>
<td><strong>Semester 2</strong></td>
<td><strong>Semester 2</strong></td>
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<tr>
<td>Engineering Innovation and Leadership</td>
<td>Civil Engineering Research Project</td>
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<tr>
<td>Research Methods for Civil Engineers</td>
<td>Master’s Level Civil Engineering Elective</td>
</tr>
<tr>
<td>Elective</td>
<td>Elective Master’s Level Civil Engineering Elective</td>
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</table>

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As a leader in COASTAL ENGINEERING, UQ has expertise in sediment transport processes, nearshore hydrodynamics and statistical modelling of beach processes.
Electrical Engineering

The Master of Engineering (Electrical Engineering) degree is designed to equip students with state-of-the-art technical and research skills, a global perspective on professional engineering practice and the competence to identify and apply current research practice to solve real-world engineering problems.

Across the globe, more than eight billion scans have been completed to date using world-leading magnetic resonance imaging (MRI) technology developed at UQ.

Complete a research project or INDUSTRY PLACEMENT at companies like Allergen, Bayer or Cochlear as part of your degree.

ELECTRICAL

Study plan

<table>
<thead>
<tr>
<th>YEAR 1</th>
<th>Semester 1</th>
<th>Professional Engineering and the Business Environment</th>
<th>Elective</th>
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<tbody>
<tr>
<td></td>
<td>Semester 2</td>
<td>Engineering Innovation and Leadership</td>
<td>Elective</td>
<td>Elective</td>
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<td>Advanced Computational Techniques in Engineering</td>
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<td>Research Methods</td>
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<th>YEAR 2</th>
<th>Semester 1</th>
<th>Engineering Project / Industry Placement</th>
<th>Elective</th>
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<td></td>
<td>Semester 2</td>
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<td>Elective</td>
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Master of Engineering

MECHANICAL

UQ is a global leader in mineral and mining engineering and is ranked 13th in the world for industry income in mechanical and aerospace engineering.

Mechanical Engineering
The Master of Engineering (Mechanical Engineering) is one of the broadest areas of engineering, covering dynamics and control, thermodynamics and fluid mechanics, structures and solid mechanics and design and manufacture.

Core to the mechanical engineering process is the ability to formulate a problem, identify potential solutions, analyse and model solutions and select the most appropriate solution within constraints. This approach is integrated within the program and is applicable across a range of professions, making graduates well prepared for a changing world.

Study plan

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<th>YEAR 1</th>
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<tbody>
<tr>
<td>Semester 1</td>
<td>Professional Engineering and the Business Environment</td>
<td>Engineering Management and Communication</td>
<td>Energy Systems</td>
</tr>
<tr>
<td>Semester 2</td>
<td>Engineering Innovation and Leadership</td>
<td>Fluid Mechanics</td>
<td>Mechanical Systems Design</td>
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<th>YEAR 2</th>
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<tbody>
<tr>
<td>Semester 1</td>
<td>Engineering Project</td>
<td>Advanced Engineering Laboratory Techniques</td>
<td>Control Engineering 2</td>
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<tr>
<td>Semester 2</td>
<td>Advanced Engineering Practice</td>
<td>Experimental Design</td>
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</table>

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Software Engineering

The Master of Engineering (Software Engineering) provides a comprehensive and in-depth knowledge in software systems and applications. As our society becomes increasingly reliant on technology, there is great demand for skilled professionals to create the necessary software and information systems to transform the way we live and work.

Gain expertise in advanced techniques for managing the complexity of modern software systems.

Study plan

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<tr>
<th>YEAR 1</th>
<th>Semester 1</th>
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<tbody>
<tr>
<td>Compilers and Interpreters</td>
<td>Formal Modelling and Verification</td>
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<td>Semester 2</td>
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<tr>
<td>Concurrency: Theory and Practice</td>
<td>Advanced Data Structures and Algorithms</td>
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<tr>
<th>YEAR 2</th>
<th>Semester 1</th>
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<tbody>
<tr>
<td>Machine Learning</td>
<td>Advanced Computer and Network Security</td>
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<tr>
<td>Semester 2</td>
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<tr>
<td>Principles of Program Analysis</td>
<td>Information Retrieval and Web Search</td>
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</table>

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Why study engineering science at UQ?

The Master of Engineering Science is a professional development degree for those with a background in engineering or related field, who are looking to further their knowledge in a particular area.

With great global and local challenges – climate change and the greenhouse effect, clean energy, reliable water supplies, infrastructure for booming populations, sustainable resource development, and efficient and effective communications – engineers have many opportunities to be part of the solution at all scales, from molecular to global.

If you have a desire to lead multidisciplinary teams to find solutions to the challenges facing engineering industries in the 21st century, you should enrol in the Master of Engineering Science. You will learn from staff who are internationally recognised as leading experts in their fields, and use the advanced facilities that UQ has to offer.

Study plan

YEAR 1

<table>
<thead>
<tr>
<th>Semester 1</th>
<th>Semester 2</th>
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<tbody>
<tr>
<td>Electronic Circuits</td>
<td>Computational Electromagnetics</td>
</tr>
<tr>
<td>Electrical Energy Conversion and Utilisation</td>
<td>Electromagnetic Fields and Waves</td>
</tr>
<tr>
<td>Advanced Computational Techniques</td>
<td>Advanced Power Electronics Design</td>
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<tr>
<td>Electricity Market Operation</td>
<td>Engineering Project</td>
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YEAR 2

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<th>Semester 1</th>
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<tr>
<td>Photonics</td>
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<td>Power Systems Analysis</td>
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<tr>
<td>Antenna Design</td>
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<tr>
<td>Engineering Project</td>
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FEES

Domestic students
Please visit: feecalculator.app.uq.edu.au

International students
AUD $36,688 (Indicative Annual Fee)
Fields of study

- electrical engineering
- software engineering
- undeclared*
  + chemical engineering
  + civil engineering
  + materials
  + mechanical engineering
  + mechatronic engineering

* The Master of Engineering Science Undeclared specialisation builds on knowledge taught in undergraduate engineering programs and provides graduates with advanced skills in engineering analysis and problem solving.

Master of Engineering Science (Management)

For students who want to develop new or additional engineering knowledge and apply this in a business context, UQ offers an extended management option.

The Master of Engineering Science (Management) is a two-year master's that will broaden your career opportunities by developing your skills in engineering combined with business management.

It consists of an extensive menu of intermediate and advanced level courses which will prepare you for a dynamic engineering workforce and service-operations management.

Career opportunities

Graduates of the Master of Engineering Science have developed the advanced knowledge needed to cross disciplinary boundaries and undertake sophisticated and complex engineering work. Graduates not only have technical expertise, but also have a combination of business, problem-solving and interpersonal skills to understand markets and develop productive relationships with customers, suppliers, business partners and colleagues.

Which master's is for you?

The Master of Engineering Science degree is available as a 24-unit or a 16-unit program (depending on your previous qualifications). Applicants with an approved degree may apply for the 24-unit program. The 16-unit program is available to applicants with an approved four-year degree in the same field of study.
Master of PETROLEUM ENGINEERING

Tailored to the requirements of the upstream petroleum sector to prepare you for diverse roles in the local and global oil and gas industries.

Why study petroleum engineering at UQ?

Oil and gas companies are facing technological and commercial challenges to keep their wells flowing and need skilled engineers to shape their future operations.

The Master of Petroleum Engineering is the best of its kind in Australia. You will benefit from a program taught by both the School of Chemical Engineering and the Centre for Coal Seam Gas who have international reputations in the field, with strong links to industry worldwide.

The program is taught in intensive mode with lectures delivered in intensive one-week blocks, with self-directed learning and tutorials to follow. You will also complete a field development project which facilitates direct contact to potential employers and an individual research project.

Study plan

| YEAR 1 |
|------------------|------------------|------------------|------------------|
| Semester 1       | Semester 2       | Semester 1       | Semester 1       |
| Geoscience       | Reservoir        | Drilling         | Well Logging     |
| for Petroleum    | Engineering      | Engineering      | for Petroleum    |
| Engineering      | Reservoir        | Reservoir        | Engineering      |
|                  | Simulation       | Simulation       | Reservoir        |
|                  | Well Test Analysis| Production       | Economics and    |
|                  |                   | Technology       | Decision Making  |
|                  |                   |                   |                  |
| YEAR 2 |
| Semester 1       | Semester 2       | Semester 1       |
| Field Development| Individual       |
| Project          | Research Project |

This is an indicative course plan only. You will be advised of offerings prior to course selection and enrolment. For full program information visit www.uq.edu.au/study

Duration (years full-time): 1.5
Entry times: Semester 1 or 2
Prerequisites: Degree equivalent to a four-year Australian bachelor’s honours degree in a relevant field. Relevant industrial experience may be considered. Relevant fields include but are not limited to chemical engineering, civil engineering, mining engineering, petroleum engineering, geology, earth sciences, physics, mathematics, chemistry.

GPA (on a 7-point scale): 5.0
English language requirements: An IELTS overall score of 6.5, with a score of 6 in writing, reading, speaking and listening.

FEES

Domestic students

International students

AUD $38,144 (Indicative Annual Fee)
What you will study
This program fulfils the training requirements that industry has asked us to provide. You will complete eight flexible courses and undertake extensive project work. Courses cover the technical knowledge and skills you’ll need as a petroleum engineer and project work is designed to let you apply your knowledge to real industry problems. You will learn from industry partners, practitioners and researchers. All courses are designed to provide you with a wealth of knowledge from an international perspective. Guest lectures from industry experts also provide valuable networking opportunities.

Career opportunities
Graduates of the Master of Petroleum Engineering are technically well prepared for many aspects of the oil and gas industry. Graduates work anywhere from offices in large cities, to offshore oil rigs. You may find yourself working for some of the world’s largest companies looking to design and develop new methods for extracting oil and gas. Depending on their expertise, graduates may work in roles such as:
- management positions
- engineering services
- oil and gas extraction, or
- geology and exploration.

Fendley Skills Development
From 2017, up to 25 students are eligible to undertake internationally recognised and certified well-control courses at no extra cost (e.g. IWCF and IADC well control levels 2 to 4). This is thanks to a unique collaboration with the leading industry training provider Fendley Skills Development accreditation. Please contact the relevant registration body for conditions of accreditation.
RESPONSIBLE RESOURCE DEVELOPMENT

Gain the skills to lead innovation in your organisation and harness the power of technology to improve business productivity, global competitiveness and create change.

Why study responsible resource management at UQ?

The program is designed for both industry professionals seeking to broaden their knowledge base, as well as graduates planning on exploring future career opportunities within extractive mining, oil and gas. This program will be built around common core courses, which engage directly with the sustainable development agenda at both the Graduate Certificate and Diploma level.

The program is delivered primarily online, to accommodate professional learners in full-time employment. Core courses may involve a one-week intensive program hosted at the St Lucia campus.

Study plan

YEAR 1

Semester 1
- Sustainable Management in a Minerals Industry Context
- Community Development for the Resource Industry
- Community Aspects in Resource Development
- Community Engagement for the Resource Industry
- Incident and Investigation Analysis
- Human Factors in the Minerals Industry

Semester 2
- Sustainable Development in the Minerals Industry
- Community Research Methods for the Resources Sector
- Community Aspects in Resource Development
- Community Engagement for the Resource Industry
- Incident and Investigation Analysis
- Human Factors in the Minerals Industry

YEAR 2

Semester 1
- Professional Project

This is an indicative course plan only. You will be advised of offerings prior to course selection and enrolment. For full program information visit www.uq.edu.au/study
What you will study
The program structure will give you the opportunity to take courses in one of three fields of specialisation: environment, health and safety, and community relations.
Each level of the program builds towards a master’s level applied research thesis supervised by researchers from the Sustainable Minerals Institute (SMI).

Specialisations
1. Community Relations (community development, community engagement, community aspects of resource development, regional and local economic methods)
2. Environment (environmental management in mining, vegetation and habitat rehabilitation, water management in the minerals industry, managing post-mining landscapes)
3. Health and Safety (integrated risk management, accident and investigation analysis, occupational health and safety in mining, human factors engineering)

FEES
Domestic students
Please visit: feecalculator.app.uq.edu.au

International students
AUD $36,688 (Indicative Annual Fee)
We are educating highly skilled change agents to deal with the complex trilemma of energy affordability, reliability and environmental sustainability.

Why study sustainable energy at UQ?
UQ’s innovative suite of postgraduate programs in sustainable energy aims to equip the next generation of energy leaders, managers and decision makers with the skills and knowledge to address the challenges at the nexus of energy, climate change and sustainability.

As one of the few programs in the world to offer you a cross-disciplinary education with direct industry contact and practical experience, you will gain a deeper understanding and appreciation of energy systems, responsible business practice and contemporary energy challenges.

Study plan

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<tr>
<td>Energy Principles and Renewable Energy</td>
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<td>Climate Science and Policy</td>
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<td>Energy and Development</td>
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<td>Low Emission Technologies and Supply Systems</td>
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<tr>
<td><strong>Semester 2</strong></td>
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<tr>
<td>Energy Investment and Finance</td>
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<td>Energy Markets, Law and Policy</td>
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<td>Energy Strategy, Innovation and Entrepreneurship</td>
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<td>Energy Efficiency and Transport</td>
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<td><strong>Semester 1</strong></td>
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<tr>
<td>Professional Project</td>
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<td>OR</td>
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<tr>
<td>Mini Research Thesis and Electives</td>
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<td>OR</td>
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<td>4 x Coursework Electives</td>
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Duration (years full-time): 0.5
Entry times: Semester 1
Prerequisites: Degree equivalent to an Australian bachelor’s degree in a relevant field and at least two years of relevant work experience. Applications on the basis of post-secondary study and work experience will be individually assessed. 3-5 years practical experience in a related field is preferred.
GPA (on a 7-point scale): 4.5
English language requirements: An IELTS overall score of 6.5, with a score of 6 in reading, speaking and listening.

Duration (years full-time): 1
Entry times: Semester 1 or 2
Prerequisites: Degree equivalent to an Australian bachelor’s degree in a relevant field with a GPA of at least 4.5 on a 7 point scale OR relevant post-secondary study and at least two years of relevant work experience. Applications on the basis of post-secondary study and work experience will be individually assessed. 3-5 years practical experience in a related field is preferred.
GPA (on a 7-point scale): 4.5
English language requirements: An IELTS overall score of 6.5, with a score of 6 in reading, speaking and listening.

Duration (years full-time): 1.5
Entry times: Semester 1 or 2
Prerequisites: Degree equivalent to an Australian bachelor’s degree in a relevant field. Relevant fields include but are not limited to engineering, science, environmental management, economics, commerce, business, public policy, international development, energy. 3-5 years practical experience in a related field is preferred.
GPA (on a 7-point scale): 4.5
English language requirements: An IELTS overall score of 6.5, with a score of 6 in reading, speaking and listening.
What you will study

Working with a range of international peers, students will complete eight core courses exposing them to the latest information on the range of energy technologies, climate change science and policy, energy markets, and the challenge for energy supply in developing countries.

On completion of the core courses, students will choose to consolidate their learning into an area of interest through a semester long professional project which can focus on technical, economic or social outcomes, or may elect to specialise through a range of elective courses.

All courses are taught in intensive week-long blocks.

Career opportunities

You will be prepared to represent the new breed of energy professionals and solve complex energy issues. You will be able to work and move across all industries and sectors as an innovator, developer and key communicator.

You will also be ready to take on leadership and management positions in a variety of environments, including industry, consultancy, government (policy/legislation/regulation) as well as non-governmental organisations and international agencies.

Energy Leader Scholarships

UQ is offering several scholarships for high calibre candidates wishing to study the Master of Sustainable Energy commencing in Semester 1, 2018. These prestigious scholarships will be awarded on merit to candidates who clearly demonstrate potential as future energy leaders.

- One full tuition fee scholarship (up to $52,500)
- OR two half tuition fee scholarship (up to $26,000)
- Two partial tuition fee scholarships (up to $15,000)

For more information

scholarships.uq.edu.au
Study at the leading-edge of information and communications technology.

UQ offers industry-focused technology programs that prepare you to work with current and emerging IT concepts and techniques.

**Our lecturers are academic and industry leaders**
You will learn from some of the most talented academics in Australia. UQ pioneered the studio-based approach to teaching information technology almost two decades ago. Today, our programs are designed in consultation with industry to ensure our graduates have the skills and knowledge needed for the fast-paced, exciting world of technology.

**Learning that pushes your boundaries**
Our challenging academic environment attracts the brightest and best technology students from around the country and internationally. With a reputation for teaching excellence and expert research, our students, graduates, teachers and researchers are revolutionising technology to solve the world’s greatest challenges.

**Scholarships**
UQ offers many scholarships to encourage and support our brightest postgraduate students. For details, please visit:

For more information scholarships.uq.edu.au

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**OUTSTANDING FACILITIES**

More than 20 equipped laboratories
- with dedicated facilities for:
  - mechatronics
  - robotics
  - internet of things
  - signal and image processing
  - sustainable energy
  - photonics and microwave engineering
  - user experience design

Dedicated IT and Engineering support staff

Electronic and mechanical workshop facilities
- more than 400 Windows, Unix and Apple workstations with access to an 8 Terabytes Storage Area Network (SAN)
- regularly updated workstations
- sun SPARC Enterprise M4000 and v1280 Unix Servers with 32 and 24GB of memory
- a SGI Altix 350 20 Itanium2 CPU server with 40GB of memory
- fully switched, Cisco Catalyst 3xx0 series, 32-Gbps backboned network
- 802.11g wireless networks for staff and students
- 30+ networked laser and colour printers

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**TOP RANKINGS**

- UQ’s field of computer science and information technology is ranked among the top 100 in the world. (QS World University Rankings, 2017)
- One of only three Australian members of the global Universitas 21, founding member of the Group of Eight (Go8) universities, and member of Universities Australia.
- ResApp Health Ltd was recognised as the Australian Emerging Company of the Year at the AusBiotech and Johnson & Johnson’s Innovation Industry Excellence Awards 2016. Developed at UQ, ResApp is developing a smart phone medical application for the diagnosis and management of respiratory disease.
Postgraduate programs in

COMPUTER SCIENCE

Build and extend your understanding of the latest ICT technologies, so you can improve your skills and your career opportunities.

**GRADUATE CERTIFICATE**

- Duration (years full-time): 0.5
- Entry times: Semester 1 or 2
- Prerequisites: Degree equivalent to an Australian bachelor’s degree in information technology or computer science OR relevant post-secondary study and at least two years of relevant work experience. Applications on the basis of post-secondary study and work experience will be individually assessed.
- GPA (on a 7-point scale): 4.0
- English language requirements: An IELTS overall score of 6.5, with a score of 6 in writing, reading, speaking and listening.

**GRADUATE DIPLOMA**

- Duration (years full-time): 1
- Entry times: Semester 1 or 2
- Prerequisites: Degree equivalent to an Australian bachelor’s degree in information technology or computer science OR relevant post-secondary study and at least two years of relevant work experience. Applications on the basis of post-secondary study and work experience will be individually assessed.
- GPA (on a 7-point scale): 4.5
- English language requirements: An IELTS overall score of 6.5, with a score of 6 in writing, reading, speaking and listening.

**MASTER**

- Duration (years full-time): 1, 1.5 or 2
- Entry times: Semester 1 or 2
- Prerequisites: Degree equivalent to an Australian bachelor’s degree in information technology or computer science.
- GPA (on a 7-point scale): 5.0
- English language requirements: An IELTS overall score of 6.5, with a score of 6 in writing, reading, speaking and listening.

**Why study postgraduate computer science at UQ?**

These cutting-edge postgraduate coursework programs for information and communications technology (ICT) professionals with a bachelor’s degree in computer science or information technology are designed to prepare you for the challenges of the ever changing world of ICT and rapidly advancing technologies.

It can be used as a general upgrade of skills or as a skill upgrade in a specific area, such as information systems, software engineering, distributed systems, networks, security of computing systems and other ICT areas.

It can also prepare ICT professionals for entry into our Master of Philosophy and Doctor of Philosophy research degrees.

**What you will study**

You can focus on one or several areas of interest when choosing from the range of computer science courses, including an advanced research project at master’s level.

| YEAR 1 |
|-------------------|-------------------|-------------------|-------------------|
| Semester 1 | Advanced Algorithms and Data Structures | Models of Software Systems | Service-Oriented Architectures | Artificial Intelligence |
| Semester 2 | Communication Systems | Advanced Embedded Systems | Data Mining | Information Security |

| YEAR 2 |
|-------------------|-------------------|-------------------|
| Semester 1 | Machine Learning | Advanced Human-Computer Interaction | Computer Science Research Project |

This is an indicative course plan only. You will be advised of offerings prior to course selection and enrolment. For full program information visit www.uq.edu.au/study
Master of Computer Science (Management)

This master’s program will provide you with the combination of advanced courses in information and communications technology (ICT) and business and management skills.

The combination of the ICT and management skills is currently a crucial requirement for candidates seeking employment in the ICT industry. The job market is changing; the demand for pure information technology or computer science jobs are diminishing while the demand for IT professionals with good business and management skills is growing.

FEES

<table>
<thead>
<tr>
<th></th>
<th>Domestic students</th>
<th>International students</th>
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<tr>
<td></td>
<td>Please visit: <a href="http://feecalculator.app.uq.edu.au">feecalculator.app.uq.edu.au</a></td>
<td>AUD $36,688 (Indicative Annual Fee)</td>
</tr>
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</table>

Domestic students

International students
Big data is set to revolutionise society and how we make discoveries and decisions.

**Why study data science at UQ?**

UQ's Master of Data Science is the most comprehensive data science program in Australia. You will gain high-level analytical and technical skills, industry-specific knowledge and a capacity for creative thinking.

The Master of Data Science brings together areas of computing, statistics, mathematics and business to solve big data challenges across business, social, government and health data. You will use relevant big data tools and technologies to develop essential knowledge about the ethical and legal use of data and for effective business communication.

**Study plan**

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<tr>
<th>YEAR 1</th>
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<tr>
<td>Semester 1</td>
<td>Introduction to Data Science</td>
<td>Mathematics for Data Science 1</td>
<td>Advanced Data Analytics</td>
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<td>Semester 2</td>
<td>Data Privacy: Ethics, Law and Technical Considerations</td>
<td>Applied Probability and Statistics</td>
<td>Mathematics for Data Science 2</td>
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<tr>
<td>Semester 1</td>
<td>Data Science Project: Propose</td>
<td>Statistical Methods for Data Science</td>
<td>Advanced Techniques in High Dimensional Data</td>
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<tr>
<td>Semester 2</td>
<td>Data Science Project: Build</td>
<td>Computational Models for Data Science</td>
<td>Advanced Statistics</td>
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</tbody>
</table>

This is an indicative course plan only – for students with a computing background. You will be advised of offerings prior to course selection and enrolment. For full program information visit www.uq.edu.au/study
Practical opportunities

Become job ready to tackle complex data science challenges and play a leading role in the future development of data science solutions globally.

Learn from experts integrating world-leading research with relevant big data tools and technologies, to apply creative and disruptive thinking to complex problems.

Career opportunities

Data science is one of the most in-demand professions globally. In China alone, the market for big data has had an annual growth of more than 30 per cent based on expenditure of 10 billion RMB since 2015. Master of Data Science graduates will be expertly prepared to work in Australia or overseas across a large number of industry sectors.

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<th>students</th>
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<tr>
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</table>

The MEDIAN SALARY of data scientists is typically reported in SIX-DIGIT FIGURES
Develop advanced skills in key areas of IT to enhance your professional expertise.

**Why study information technology at UQ?**

This program is an ideal choice for a student who does not have a previous IT degree and wishes to enhance their current discipline areas through specialist IT knowledge.

The Master of Information Technology will give you skills in web development, software development, information systems and other aspects of information technology.

Benefit from a flexible program. The Master of Information Technology offers a large number of elective courses, which means you can tailor your studies to suit your interests, your industry or your career goals.

**What you will study**

Courses cover topics such as software systems, database systems, information security and user-centred design. Elective courses also cover IT applications in different industry settings.

**Study plan**

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<th>GC</th>
<th>GRADUATE CERTIFICATE</th>
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<td>Entry times:</td>
<td>Semester 1 or 2</td>
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<td>English language requirements: An IELTS overall score of 6.5, with a score of 6 in writing, reading, speaking and listening.</td>
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<td>Entry times:</td>
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<td>Semester 1 or 2</td>
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<td>Prerequisites: Degree equivalent to an Australian bachelor's degree in a field other than information technology or computer science.</td>
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This is an indicative course plan only. You will be advised of offerings prior to course selection and enrolment. For full program information visit www.uq.edu.au/study
Master of Information Technology (Management)

For students who want to develop new or additional IT skills and become an inspirational IT business leader of the future, UQ offers an extended management option.

The Master of Information Technology (Management) is a two-and-a-half-year program that will broaden your career opportunities by developing your skills in IT-application development combined with business management.

It consists of an extensive menu of intermediate and advanced level courses which will prepare you for a dynamic information technology workforce.

Career opportunities

Job opportunities are widespread, as employers come to demand graduates with both IT and business skills.

Graduates find work in large multinational companies; state and federal government departments; and in many small, specialised and emerging companies like:

- Google
- Xero
- Deloitte
- Intel, and
- Price Waterhouse Coopers.

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<td><strong>International students</strong></td>
<td>AUD $38,512 (Indicative Annual Fee)</td>
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</table>
The technologies we encounter every day can be designed to create new possibilities for how we access, understand, and interact with digital information.

Why study interaction design at UQ?

Interaction with electronic devices, through computer-based technology, networks and telecommunications is a major part of our daily lives and will become increasingly important in the future. From early childhood onwards we are connected to networks, telecommunications and computer-based technology, therefore the focus of systems design and design in technology, and consequently the focus on designing for people when creating new technologies has become more and more important.

The emerging challenges in this radically evolving field are not just with the nature of new technologies, but with their design. How should these technologies be experienced in our lives? How can they support and enhance our everyday practices? What should they help us become?

Study plan

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<tr>
<td>Semester 1</td>
<td>Design Thinking</td>
<td>Human-Computer Interaction</td>
<td>Introduction to Web Design</td>
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<tr>
<td>Semester 2</td>
<td>Design Computing Studio 1 Interactive Technology</td>
<td>Introduction to Software Engineering</td>
<td>Digital Prototyping</td>
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<th>YEAR 2</th>
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<tr>
<td>Semester 1</td>
<td>Master’s Thesis</td>
<td>Web Information Systems</td>
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<tr>
<td>Semester 2</td>
<td>Master’s Thesis</td>
<td>Social and Mobile Computing</td>
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</tbody>
</table>

This is an indicative course plan only. You will be advised of offerings prior to course selection and enrolment. For full program information visit www.uq.edu.au/study
Career opportunities

Graduates of the Master of Interaction Design have advanced understanding of usability problems and how to solve them. They also have diverse skills relevant to a range of industries, sectors and discipline areas.

Graduates typically work across the public and private sectors. Employers include technology companies, banking and financial services, digital agencies, media companies, government agencies and health providers.

Because the program has a strong emphasis on research and research skills, some students work in research or advisory positions, or choose to enrol in a Master of Philosophy or in a Doctor of Philosophy program.

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<tr>
<td>International</td>
<td>students</td>
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<tr>
<td>AUD $36,688</td>
<td>(Indicative Annual Fee)</td>
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THE MASTER OF INTERACTION DESIGN

is for graduates who haven’t previously studied interaction design.
Having a wide range of sought after attributes including advanced technical knowledge and skills, communication skills and the ability to work in a team is key to being successful in a competitive graduate employment market.

The EAIT Student Employability Team understands that the goal for many students is to find a career that puts all their years of hard work and study to good use. Our specialised advisors have backgrounds in human resources and recruitment and are here to assist you in building your employability.

**SUPPORT TO ADVANCE YOUR CAREER**

The Faculty of Engineering, Architecture and Information Technology’s Student Employability Team is dedicated to helping you boost your employability, find opportunities and manage your work experience.

**EAIT Employability Team**

E: employability@eait.uq.edu.au  
W: www.eait.uq.edu.au/employability  
T: +61 7 3346 6460
SCHOLARSHIPS

Make your university experience easier and more affordable with the support of a scholarship.

You may not think you are eligible for a scholarship, but with many different opportunities available, we encourage you to take some time to research and apply.

To see what you may be eligible for, visit scholarships.uq.edu.au.

EQUITY
UQ strongly supports equitable access to education for students who struggle to attend university. The following scholarships provide opportunities for such students:

Centrelink Student Start-up and Relocation Scholarships
Awarded to students receiving Centrelink study support payments and those needing to relocate from home to attend university.
Award value: Variable and determined by Centrelink

SPORTING
UQ Sport Scholarships are awarded to outstanding new and continuing students who are both academically gifted and have demonstrated exceptional ability in their chosen sport. Though there are several sporting scholarships, the two main options UQ offers to postgraduate students are:

UQ Sports Achievement Scholarship
Awarded to outstanding new and continuing students who have demonstrated exceptional ability in their chosen sport.
Award value: $6000 for one year

UQ Sports Scholarship Ambassador Program
Awarded to professional and/or elite athletes.
Award value: $1500 per year

HIGHER DEGREE BY RESEARCH
The UQ Graduate School supports research students with scholarships from Australian Government and University funding. The school coordinates a competitive, merit-based process for awarding scholarships in two rounds each year.

Brian Gray Scholarship Program
Awarded to any domestic student studying a topic of relevance to the Australian Prudential Regulation Authority.
Award value: $15,000

INTERNATIONAL
The Faculty of Engineering, Architecture and Information Technology offers a large range of scholarships to international students with varying values and criteria.

To view the range, visit scholarships.uq.edu.au and select:

- Engineering, Architecture and Information Technology from study area
- International student from nationality
- Postgraduate Coursework/Research from study level

Please note: All figures were correct at time of printing but are subject to changes; see scholarships.uq.edu.au prior to applying to confirm correct values and criteria.

Get in early scholarship applications close at different times throughout 2017 – plan your response and apply early so you don’t miss out!
ADMISSION INFORMATION

Domestic* students
Follow this step-by-step process for postgraduate coursework program applications:

**STEP 1** Choose
Search for your program
• Search in this guide on pages 5–43.
• Visit future-students.uq.edu.au.

**STEP 2** Apply
Find your chosen program online at future-students.uq.edu.au/apply/postgraduate/choose-your-program, create your online account and begin your online application for postgraduate studies.

**STEP 3** Check
Check the entry requirements and deadline
All programs have specific academic and English language requirements and some programs have extra requirements. Please check that you satisfy them all, and have met the deadline.

**STEP 4** Accept
• Check the progress and status of your application by logging into your account as created in Step 2.
• Select the “accept offer” option.
• Accept your offer.
• Go to uq.edu.au/startingatuq and follow the instructions.

**STEP 5** Enrol
Choose your courses
• For help visit uq.edu.au/myadvisor.
• Enrol online via mySI-net at sinet.uq.edu.au.
• Plan your timetable and register for classes.
• Pay your fees.

**STEP 6** Prepare
• Research your course resources.
• Attend Orientation Week** *(held the week prior to classes starting).*
• Get your student ID card.
• Attend Faculty or School information and welcome sessions.

*You are a domestic student if you are: a citizen of Australia or New Zealand, or an Australian permanent resident, or a holder of an Australian permanent humanitarian visa.

**For more information on O-Week visit orientation.uq.edu.au/oweek. Get your questions answered in time for when you start classes the following week.
International students
Follow this step-by-step process for postgraduate coursework program applications:

**STEP 1 Choose**
Select the program you want to study
Search for your program in this guide or on UQ's Courses and Programs website at uq.edu.au/study (you can also select a second preference, which we may consider if you are not accepted for your first choice); and if your program has plans (fields of study), please choose a plan.

**STEP 2 Check**
Check the entry requirements and deadline
All programs have specific academic and English language requirements and some programs have extra requirements. Please check that you satisfy them all, and have met the deadline.

**STEP 3 Apply**
Apply
Either apply directly to UQ at uq.edu.au/international/how-to-apply and follow the instructions OR apply through one of UQ's official international representatives (check uq.edu.au/international/edureps to find your local education representative).
If you do not have internet access, please contact UQ International Admissions for an application form:
T: +61 7 3365 7941 F: +61 7 3365 1794
You must pay a non-refundable application fee of $100 by credit card or bank transfer (see website for details) and, whichever method you use to apply, you will be required to provide certain documentary evidence to support your application.

**STEP 4 Accept**
Accept offer
If your application is assessed as eligible, you will receive an offer by email. Accept your offer by returning the completed Agreement and Response to Offer (ARO) form and payment – along with any documents that we have requested to satisfy conditions – to the International Admissions Sections or one of the University's local representatives.

**STEP 5 Wait**
Wait
Once we receive your ARO and payment, and provided you have met any conditions required, we will issue you with a Confirmation of Enrolment (CoE) via email, as well as information on what you need to do next (including how to organise airport reception and temporary accommodation) and a list of important dates.

**STEP 6 Prepare**
Apply for an international student visa and prepare for departure
Use your CoE to apply for a student visa via an embassy, high commission or the Department of Immigration and Citizenship*, and make travel arrangements. Book airport reception and accommodation at accommodation.uq.edu.au and attend a pre-departure seminar (if one is offered locally).

**STEP 7 Begin**
Arrive
• Get settled into life at The University of Queensland.
Attend orientation and enrol
• Go to Getting Started and Welcome sessions, and enrol online.
• Commence study.

For more information please visit future-students.uq.edu.au.

*Visa application processing times vary according to the assessment levels of your program, and sometimes for your nationality as determined by the Student Visa program (see immi.gov.au).

**Closing dates**
You should submit your application no later than the recommended deadline, which can be found at uq.edu.au/international/application-deadlines and instructions uq.edu.au/international/application-instructions.

**Documentation required**
Please ensure that you submit up-to-date transcripts and award certificates with your application. You should submit copies certified by a justice of the peace, a notary public (e.g. a practising solicitor) or similar government official in your country, or by one of UQ’s authorised representatives (see uq.edu.au/international/edureps). Official translations are required for all documents in languages other than English.

**Application status**
To enquire about how your application is progressing, email study@uq.edu.au or applicationstatus@uq.edu.au with your full name, date of birth, and UQ Student ID (if available). If you do not yet have an ID, it is also useful to advise the date you applied.
HIGHER DEGREE BY RESEARCH

UQ has supported more than 15,000 students in their academic pursuit of a higher degree by research (HDR). Now is the time for you to achieve your research goals at one of Australia’s leading research universities.

HOW TO APPLY

At UQ, we have made applying for a higher degree by research (HDR) as simple as possible. You can apply by visiting the UQ Graduate School website and following these steps.1

Visit uq.edu.au/grad-school/apply

You should also familiarise yourself with UQ’s research degree requirements and scholarships.

1 Search for a supervisor
Visit uq.edu.au/uqresearchers

2 Prepare your documentation
Visit uq.edu.au/grad-school/apply for a complete list of documents required to support your application.

3 Apply online
The information you provide in your application will help UQ assess your suitability for undertaking an HDR at UQ, investigate UQ’s capacity to provide you with an advisory team and research facilities, and determine if there are adequate project funds, general infrastructure and support services available. If you wish to be considered for a competitive, merit-based scholarship, simply indicate on the application form. UQ will contact you during the assessment process to discuss your application and may request additional documentation such as a research proposal. Once the assessment process is complete, you will be formally notified of the outcome of your application.

* Applications are assessed on a case-by-case basis. English language proficiency requirements apply.

Programs

HDR programs at UQ include the Doctor of Philosophy (PhD) and the Master of Philosophy (MPhil). HDR students produce new knowledge and expertise that is innovative, relevant and progressive.

Doctor of Philosophy (PhD)

A PhD is one of the highest degrees that can be awarded. It is an advanced academic qualification seen as a requirement for the majority of academic and research positions in a wide range of fields and industries. The aim of the PhD is to foster the development of independent research skills. These skills include the capacity to formulate a significant problem, to develop mastery of appropriate conceptual and methodological skills, and to relate the research topic to a broader framework of knowledge in a relevant disciplinary area.

Master of Philosophy (MPhil)

An MPhil is an internationally recognised postgraduate research degree that involves undertaking a significant research project. The MPhil program provides students with an opportunity to develop and enhance analytical and research skills through independent investigation in a specific field. Many MPhil students choose to continue with their research to obtain a PhD. Some PhD students elect to finish early with an MPhil.

Why undertake an HDR?

Most PhD and MPhil candidates undertake an HDR because they are driven by the desire to advance their career opportunities or satisfy their intellectual curiosity. Graduates from HDR programs typically enjoy academic or research careers within tertiary institutions or a broad range of professional and leadership roles within industry and government. As well as vocational benefits, completing an HDR positions you as an expert, and provides opportunities to travel, network and explore.

See graduate-school.uq.edu.au for more information.
In the event of any conflict arising from information contained in this publication, the material approved by The University of Queensland Senate shall prevail.

CRICOS Provider Number 00025B