Engineering, Computing, Architecture and Planning
QS Graduate Employability Rankings 2019

#1 in Queensland for graduate employability

- 3 Campuses
- 6 Faculties
- 55,200+ students from more than 140 countries

QS Graduate Employability Rankings 2019
State-of-the-art facilities

More national teaching awards than any other Australian university

#1 University in Australia in the prestigious Nature index
Choose Engineering
As one of the most comprehensive engineering degrees in Australia, UQ’s Bachelor of Engineering (Honours) will put you at the forefront of established and emerging engineering disciplines. This industry-relevant, hands-on and dynamic program provides a strong foundation in mathematics, science and engineering design, empowering you to meet the demands of the future. As a UQ-qualified engineer, you will have gained the critical skills and knowledge to develop practical solutions that impact the world we live in.

Choose Computing
As our reliance on computer-based systems increases in the finance, energy, transport, health and communications sectors, now is the perfect time to study computing at UQ. In 2019, UQ celebrated 50 years of computer science, so you can be assured we have the experience and knowledge to teach you a high quality program which will enable you to develop solutions to society’s most demanding issues.

You’ll graduate job-ready to launch into an exciting career in areas such as cyber security, data science, information technology, machine learning, programming and user experience design, with some of the world’s biggest corporations, including Apple, Google, Oracle, Telstra and Microsoft.

To ensure you exit your degree with the most current and relevant skills, our programs are developed in consultation with industry leaders via an Industry Advisory Board. You’ll be prepared to respond to the constant change that occurs in industry and understand the many facets of computing.

Choose Architecture
As a progressive school of architecture, we provide a balanced creative and practical education that prepares you for a successful career as an architect and designer. You’ll have opportunities to study overseas and learn from international architects; get hands-on practical experience using 3D printers, robots and VR; gain industry experience in the best architectural practices; work on real projects with real clients; and develop skills in design for local and global contexts.

Choose Regional and Town Planning
There are many ways to plan a city to balance competing priorities of development with preservation of the natural environment interests. At UQ, you can realise your goal to become an informed professional who makes well-advised planning and development decisions to meet the needs of communities. You will learn from some of Australia’s best, in a program that is recognised by employers as delivering high-quality, experienced graduates. You will receive an industry-directed balance of theoretical knowledge and practical experience, from small-scale projects to comprehensive development schemes, often in conjunction with local authorities and community organisations.

With many of Queensland’s planning firms led by UQ graduates, it’s no surprise that UQ’s Bachelor of Regional and Town Planning is recognised as one of the leading planning programs, and a popular choice for those seeking a challenging and rewarding career. This program is accredited by the Planning Institute of Australia (PIA).
Liveris Academy

Andrew N. Liveris Academy for Innovation and Leadership

Building a generation of effective and inspiring leaders with a mindset geared towards creating a sustainable future.

Mission
Current global challenges require sustained, rapid innovation on a broad scale, and the leadership to ensure implementation to effect societal change. The Andrew N. Liveris Academy for Innovation and Leadership provides the environment and programs to deliver a pipeline of effective and creative leaders for the digital era with the capacity to contribute to a sustainable future.

At the heart of the Liveris Academy, is a deep commitment to inclusivity, impact, and courageous leadership.

The Academy will identify promising students with leadership potential and a passion for sustainability, help develop Liveris Scholars to become agile and courageous leaders, and equip them to discover and implement multidisciplinary solutions that address grand challenges in sustainability.

The Academy will offer a unique student experience including prestigious scholarships, structured leadership training, mentoring by visiting leaders, targeted professional practice placements, and a vibrant Liveris Scholar Alumni Network.

Become a Scholar
Scholarship applications are invited from outstanding students with the potential to lead the development solutions to some of the world’s most pressing sustainability challenges, with a mindset geared towards creating a sustainable future. For information about the Liveris Scholarships and to submit an application, please visit scholarships.uq.edu.au

More information
T +61 7 3346 3883
E liverisacademy@uq.edu.au
W eait.uq.edu.au/andrew-n-liveris-academy
Your Engineering degree

Intellectual boldness? Technological proficiency? The power to solve society’s challenges and create a better world? Study engineering at UQ and you’ll graduate with all these qualities, with the skills to use them in a career as remarkable as you are.

Your journey as a student engineer

<table>
<thead>
<tr>
<th>Flexible First Year</th>
<th>Discipline-specific courses</th>
<th>BE (Hons) Thesis or Project</th>
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<tbody>
<tr>
<td>Entry</td>
<td>Year 1</td>
<td>Year 2</td>
</tr>
<tr>
<td></td>
<td>Year 3</td>
<td>Specialise in your study area through a thesis or design project</td>
</tr>
<tr>
<td></td>
<td>Year 4</td>
<td>Year 5</td>
</tr>
</tbody>
</table>

**Start your engineering studies with our flexible first year**

You can join over 220 clubs and societies at UQ depending on your study area, go on site visits as part of your study area.

**Undertake professional practice**

EAIT STUDENT EMPLOYABILITY TEAM
Getting you employed is our top priority. Get in touch with our Employability Team for industry networking events and workshops, personalised career-prep consultations and placement opportunities.

**Gain an accredited degree that enables you to work anywhere in the world**

Ranked 1st in Queensland for Engineering and Technology*

*QS World University Rankings by Subject, 2019

85.2% of current students are positive about their skills development*

*Quality Indicators for Learning and Training, 2019

Each year, there are more than 18,000 engineering jobs needing to be filled in Australia alone

Engineers Australia and the Australian Bureau of Statistics

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*Quality Indicators for Learning and Training, 2019

Gain an accredited degree that enables you to work anywhere in the world

EAIT STUDENT EMPLOYABILITY TEAM
Getting you employed is our top priority. Get in touch with our Employability Team for industry networking events and workshops, personalised career-prep consultations and placement opportunities.
At UQ, we’re committed to better engineering, for a better tomorrow.

No matter what engineering path you’re set on, we’ll show you how to embrace the challenges of a changing world - in a way that benefits your career, the industry and communities everywhere.
Flexible first year
At UQ, the engineering program is flexible. You can choose your specialisation in your first year, or wait until second year. This allows you to keep your options open and gives you the opportunity to experience the diverse range of engineering disciplines before deciding on a specialisation.

UQ offers the largest range of engineering disciplines of any university in Queensland and offers many opportunities to get you out of the classroom and experience life as an engineer first-hand. See the table below for the complete list of study areas you can choose to specialise in.

A designated learning space
As a first-year engineering student, you’ll have exclusive access to the First Year Engineering Learning Centre, a social learning space fitted with the latest technologies and staffed by advisors. Academic advisors and tutors are available throughout each semester, and our staff provide support and advice to new students from their first year of study. Advice on transitioning from high school to university is also available, as well as assistance for international students commencing study in Australia. You can participate in our First-Year Mentoring Program, where second-year engineering students pass on their knowledge and assist with the adjustment to university life. Other learning spaces are also available for later-year students throughout the engineering precinct.

Demo Day
From day one, you’ll gain hands-on experience in all aspects of engineering thanks to our amazing first-year Demo Week. You’ll have the opportunity to make new friends on practical projects, where you’ll work in groups to design and build things like autonomous watercraft, bridges and fully-functional mining equipment, while tackling important global issues like water recycling in Zambia and global warming. This is just the start, too – before you’ve graduated, you’ll know exactly what it means to be an engineer, having completed a range of practical courses, attended field trips, and completed internships and projects.

BACHELOR OF ENGINEERING (HONOURS)

The UQ Bachelor of Engineering (Honours) program is currently offered in the following options:

**Bachelor of Engineering (Honours) (Chemical Engineering)**
With the choice of additional areas of study in:
- Biological
- Environmental
- Materials
- Metallurgical

**Bachelor of Engineering (Honours) (Civil Engineering)**
With the choice of additional areas of study in:
- Environmental
- Geotechnical

**Bachelor of Engineering (Honours) (Electrical Engineering)**
With the choice of additional areas of study in:
- Biomedical
- Computer

**Bachelor of Engineering (Honours) (Mechanical Engineering)**
With the choice of additional areas of study in:
- Aerospace
- Materials

**Bachelor of Engineering (Honours) (Mechatronic Engineering)**
**Bachelor of Engineering (Honours) (Software Engineering)**

*M inor in Food Engineering is also available.
**Minor in Data Science is also available.
What you will study
Drawing on detailed process development, modelling and systems thinking, chemical engineers apply new approaches and big picture thinking to reduce waste and energy consumption. In this hands-on study area, you will explore topics including energy and mass flows, safety and sustainability, and the possibilities of interconnected systems.

You will benefit from the insights and expertise of world-leading researchers and highly-qualified academic staff. With practical projects, guest lecturers from industry, internships and placements with leading engineering companies, you will gain the knowledge, skills and industry connections you need to transition from university to the workplace.

Top 3 in Australia for Chemical Engineering*

*QS World University Rankings by Subject, 2019

“My core responsibilities are to support the safe, efficient and sustainable daily operation of the gold processing plant. Each day my team and I are presented with new challenges we must solve to ensure the compliance to forecasted gold production. Watching the final product being poured to form gold bullions is incredibly rewarding.

My advice to those considering study at UQ is don’t be afraid to network and form friends in your initial weeks of university. When I started in 2015 I didn’t know one other person, but after the first week, I met a great group of people that I am still in contact with. Remember that you are all in the same position so why not go through the motions together.”

Lindsey Killer
Bachelor of Engineering (Honours) (Chemical/Metallurgical)
Graduate Metallurgist, Evolution Mining at Cracow Gold Mine, Queensland
Biological

Learn how engineering principles are combined with sciences to develop new drug therapies, synthetic molecules and devices for medical, environmental and industrial applications. This involves learning how to engineer living cells to produce a product, and how to design and optimise the bioprocess to manufacture the bioprocess on a large scale. Bioengineers work on groundbreaking projects, including on the development of platform technologies to produce renewable chemicals, fuels, biodegradable plastics, biopharmaceuticals and medical imaging devices.

Metallurgical

Chemical and metallurgical engineers play a vital role in developing, managing and improving the processes required to transfer ore into metal and mineral products. With a strong focus on efficiency and sustainability, these engineers are involved in the recycling of metals from crushing, extraction and purification through to product development. In this area of study, you will study physical and chemical processing techniques, process modelling, process design and economics, and undertake individual research.

Environmental

Chemical and environmental engineers balance innovation, design and development with environmental considerations. They apply their knowledge and skills to understand natural systems and assess, measure and develop strategies to mitigate environmental impacts. Your studies will explore how to assess competing priorities such as reliability, cost and functionality, and develop efficient and effective processes.

Materials

Chemical and materials engineers transform materials to create production efficiencies and reduce emissions and waste. They also uncover ways to reuse and recycle products. You will learn how to select, process and develop materials to design and make products, and explore the impacts of temperature during processing. Your studies will explore the relationships between microstructures, mechanical properties, manufacturing and service performance.

Where you can work

Chemical engineers are employed in environmental protection, management and safety, natural resource use and the energy sector, and petroleum and petrochemical industries.

Companies such as Bayer, Unilever, Pfizer, The Dow Chemical Company, Patheon Biologics, Thermo Fisher Scientific, GE Health Care, CSL, Fujifilm Healthcare, Manildra and Dalby Biorefinery employ chemical engineers.

Hot jobs

<table>
<thead>
<tr>
<th>Role</th>
<th>Early-level:</th>
<th>Late-career:</th>
</tr>
</thead>
<tbody>
<tr>
<td>Chemical Engineer</td>
<td>$48,000–$77,000</td>
<td>$78,000–$309,000</td>
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<tr>
<td>Process Engineer</td>
<td>$51,000–$83,000</td>
<td>$82,000–$159,000</td>
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*Salaries according to Payscale.com 2019. All figures are in Australian dollars.

“My interest in chemical engineering was sparked from my experiences in Fiji, after witnessing their living conditions and lack of sanitation. I came home with a desire to study a course that would give me the knowledge and skills to develop technologies or improve practices that enrich the quality of life.”

Ruth Tromp
Bachelor of Engineering (Honours) (Chemical) / Master of Engineering
Graduate Chemical Engineer, Queensland Urban Utilities
What you will study

In civil engineering, your studies will encompass how to plan, design, build and maintain major infrastructure such as buildings, dams, airports, and utility supply and public health facilities. You will learn how to protect and improve our environment while also meeting the changing needs of society.

You will consider the requirements of diverse locations and explore environmental challenges such as climate change, rainfall, wind and flooding; population needs and sustainability; and technical functionality such as loads and hydraulics.

The civil engineering degree incorporates water, public health, hydrology, transportation, geomechanics, transport, structural, coastal and environmental engineering. With highly experienced academic staff who are leaders in their fields, you will have access to the latest knowledge and some of the most innovative thinkers in the industry.

“I am involved with developing the construction methodology for projects, preparing tender submissions and creating project programs. Because I am contributing to the early stages of development of the sites I am working on, I have a great opportunity to make changes that can add significant value to the people who will occupy these spaces.

It’s satisfying to offer engineered solutions which add quality, time, safety and cost efficiencies to the projects I’m involved in.”

Holley Morton
Bachelor of Engineering (Honours) (Civil and Environmental)
Graduate Site Engineer, Lendlease
"I have always been interested in making and building things, so engineering was an easy choice for me. I really enjoyed civil engineering for the range of things you were able to design – such as bridges, building water ways, foundations – and the different approaches to technical analysis for each of them.”

Steven Ettema
Bachelor of Engineering (Honours) (Civil)
Doctor of Philosophy researching marine renewable energy, University of Oxford, UK

**Expand your opportunities by studying**

**Civil engineering with:**

**Environmental**

Sustainable development is an increasing priority for industries and governments and our graduates have rewarding careers while contributing to global communities. This study area includes diverse electives and core subjects focusing on environmental modelling, risk management, project management, design and research.

You will learn how civil and environmental engineers contribute to policy development, and explore how new processes evolve to implementation. Your studies may focus on areas such as energy resources, water supply, reticulation and sewerage treatment, contamination management, transport and housing.

**Geotechnical**

UQ is the only university in Queensland to offer specialised study in geotechnical engineering. With its strong environmental focus, this degree will place you at the forefront of understanding and applying investigations of the ground.

As a civil and geotechnical engineer, you will test soils for industrial contaminants; analyse the impacts of movement, settlement and water; and assess load capacity for infrastructure such as roads, bridges and other structures.

This popular engineering discipline incorporates soil and rock mechanics and engineering geology. It also provides strong insights for students seeking to work in the civil and mining sectors.

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**Where you can work**

Within the private sector, consulting civil engineers are engaged to plan, design, manage and supervise diverse projects that significantly impact the daily lives of our populations. Within state and federal governments, civil engineers manage railways, roads, harbours, housing and other construction initiatives.

Companies such as Thiess, Santos, Origin Energy and GHD employ civil, geotechnical and environmental engineers.

**Hot jobs**

<table>
<thead>
<tr>
<th></th>
<th>Early-level:</th>
<th>Late-career:</th>
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<tbody>
<tr>
<td><strong>Civil Engineer</strong></td>
<td>$48,000–$76,000</td>
<td>$74,000–$193,000</td>
</tr>
<tr>
<td><strong>Environmental Engineer</strong></td>
<td>$49,000–$70,000</td>
<td>$72,000–$130,000</td>
</tr>
<tr>
<td><strong>Geotechnical Engineer</strong></td>
<td>$50,000–$74,000</td>
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*Salaries according to Payscale.com 2019. All figures are in Australian dollars.
Who you will study
Within the electrical engineering study area, you will learn to design and manage equipment used in industries such as telecommunications, electricity generation, renewable energy and healthcare applications. You will have the opportunity to investigate embedded systems that contribute to almost every sector of society. These systems include smartphones, electrical power and renewable energy to provide electricity for our daily use, medical imaging systems for improved healthcare, electrical appliances for homes, scientific instruments for laboratories, lasers for reliable high-speed communication, satellite systems for remote sensing of the environment, and reliable energy systems to power all of these. With much of your coursework being hands-on, you will leave university with highly regarded specialist technical skills. This flexible and transportable degree will open opportunities with major companies across the globe.

Are you passionate about renewable energy? Do you want to discover new ways to generate power? Are you interested in building digital devices that transmit data across the world?

Across the globe, more than eight billion scans have been completed using world-leading magnetic resonance imaging technology developed at UQ

Growing up in Hong Kong, I witnessed numerous developments of high-rises and iconic structures. I always dreamed of working in an engineering consultancy and being part of the engineering, design and planning process.

The flexible first year program for engineering allowed me to explore my options in a variety of disciplines like civil, mechanical and electrical engineering. I ended up choosing electrical engineering, and prior to my graduation I managed to secure a job in Arup’s Brisbane office.”

Gabriel Tuntomo
Bachelor of Engineering (Electrical)/Bachelor of Commerce
Graduate Electrical Engineer, QLD Transport and Resources, Arup
Biomedical

Electrical and biomedical engineers have revolutionised healthcare for entire populations with the invention of devices and machines such as pacemakers and ultrasounds. Can you imagine how it would feel to create a device that pumps blood throughout someone’s body?

In the biomedical study area, you will learn how to bridge the gap between technology, medicine and biology. Your studies will include how to design, construct and maintain health-monitoring devices, and diagnostic systems such as magnetic resonance imaging (MRIs). You will explore the fundamentals of medical signal processing, such as how to analyse electroencephalograms (EEGs), and explore how biomedical devices operate. Students also learn how to interpret the electrical signals produced by these devices. This degree incorporates all electrical engineering subjects with specialised coursework in the use of electronics in healthcare. You will also undertake detailed coursework and laboratory training that combines engineering analysis and design techniques with the biology and physiology of cells and organisms.

Computer

Do you want to create the next generation of iPads, laptops or PCs? Are you interested in building computers that control machinery, medical instruments, cars, whitegoods, robots, communications equipment and satellites?

This degree will equip you with the skills and knowledge you need to claim your place within a high-growth industry. During your studies, you will learn how to build, program and network computer-based devices to allow data to be transmitted and shared. Your coursework will also include detailed studies in computer hardware and software systems, with a strong focus on the computers embedded in machines and appliances. Electrical and computer engineers are highly valued in industries where advanced electrical and electronic equipment is designed, upgraded and maintained.

Where you can work

This is a dynamic growth sector, and electrical engineers can access exciting opportunities with major internet, communications and power generation organisations. Many graduates establish their own companies early in their careers or work overseas.

Electrical, computer, and biomedical engineers are employed by organisations such as Siemens, Phillips, Cochlear, Medtronic, Johnson & Johnson and ResMed.

Hot jobs

**Electrical Engineer**

Early-level: $49,000–$76,000

Late-career: $79,000–$166,000

**Biomedical Engineer**

Entry-level: $48,000–$71,000

Mid-career: $60,000–$112,000

*Salaries according to Payscale.com 2019. All figures are in Australian dollars.

“Electrical engineering was particularly appealing to me as I had a special interest in the power industry.

The next few decades will see a profound energy transformation as we begin to utilise more clean energy. With this transition comes more opportunities for innovation and new technologies.

UQ has equipped me with the knowledge and practical experience I needed to kick-start my career in this field. My role requires me to work closely with a multi-disciplinary team of engineers and clients to deliver innovative, clean energy solutions.”

**Neha Moturi**

Bachelor of Engineering (Electrical)

Graduate Electrical Engineer, Renewables Team, AECOM
What you will study

During this broad degree, you will learn how to design, manufacture and control machines and engines ranging from power generators through to manufacturing systems. You’ll also have access to innovative technologies and our specialist workshop areas (including our race car workshop) where you can practise your new skills.

You will study air, heat and energy flows, and learn how to control and automate machines.

Using your strong analytical skills, you will identify and develop solutions for all kinds of mechanical challenges, and gain an excellent understanding of how machines are used in everyday conveniences from refrigerators to sound production, roller-coasters and computers. You will develop expertise in creating precision machinery and apply the fundamentals of physics, chemistry, biology and technology to leverage the latest advances in cutting-edge nanotechnology.

Boeing at UQ.
Access the specially-designed, high-tech student interaction centre and gain first-hand experience in aeronautical engineering

Bachelor of Engineering (Honours)
Mechanical Engineering

From planes, trains and automobiles through to artificial hearts, elevators and the world’s largest power stations, mechanical engineering involves anything and everything with moving parts.
Aerospace

Can you imagine designing a satellite that orbits the planet? Are you excited about the possibilities of drones or exploring space – the final frontier?

While studying mechanical and aerospace engineering, you will learn how to apply sophisticated engineering principles to design air and spacecraft using emerging technology in state-of-the-art laboratories. You will learn how to design and manufacture aircraft, launch vehicles, satellites, drones, spacecraft and ground support facilities. Your studies will also cover aerospace propulsion, before you undertake specialist study in aeronautical or space engineering to obtain your dual major.

Coursework includes flight mechanics, aerospace composites, space engineering and computational fluid dynamics. You will also gain access to UQ’s hypersonic shock tunnels to help expand your understanding of hypersonic aerodynamics. The mechanical and aerospace degree incorporates project work in the aerospace and aviation industry to help ensure graduates futureproof their careers through the development of powerful industry connections and professional networks.

Materials

UQ is the only university in Queensland to offer this highly specialised major, which prepares students to work on everything from jet engines through to iPads and contact lenses. If you’re interested in learning how to select the right materials for the right jobs, then this degree is for you.

During your studies, you will explore all aspects of mechanical engineering and learn how to analyse the properties and processing qualities of materials such as metals, alloys, ceramics and composites. You will also learn how to select, use, develop and manufacture new and existing materials to achieve functional and aesthetic outcomes and meet specific client requirements.

Your coursework will provide you with opportunities to develop strong technical skills and gain an understanding of how the performance of machines and structures can be improved through the selection of the most effective and responsive materials. With a strong grounding in all aspects of materials engineering from material selection and failure analysis through to product design, research and development, and manufacturing processes, you will exit your degree with a highly valued qualification.

Where you can work

Our graduates have the practical and advanced theoretical knowledge needed to step into roles that lead machinery development across the globe. Mechanical engineers find employment in dynamic environments where machines are designed, developed, tested and manufactured. These engineers can be found in the automotive, aerospace, mining, refining, manufacturing, environmental, medical, power generation and building industries.

Companies such as Boeing, Rolls Royce, General Electric and Airbus typically employ mechanical and aerospace engineers for their specialist knowledge and technical skills. Mechanical and materials engineers are employed by private companies such as AlumniTech, TechExpo and Integra LifeSciences Corp.

Hot jobs

Aerospace Engineer
Entry-level: $55,000–$117,000
Experienced: $76,000–$157,000

Mechanical Engineer
Entry-level: $47,000–$75,000
Experienced: $70,000–$144,000

*Salaries according to Payscale.com 2019. All figures are in Australian dollars.

“I’d always been interested in STEM fields, but never felt overly passionate about it in high school. While I really enjoyed the learning areas, I hated robotically working alone on black and white problems, and was constantly looking for a fresh, real-world challenge. After some research, I discovered UQ’s general first year program. I loved the idea of combining innovation and creativity with science, and that I could flexibly sample different discipline areas. Engineering has long been ranked as the most common undergraduate degree among Fortune 500 CEOs – so even if I didn’t find my life passion in the degree I knew that it would give me an amazing skill set for life. So I decided to just take the plunge!”

Isabelle Fleming
Bachelor of Engineering (Honours) (Mechanical) current student
Are you ready for one of the most hands-on mechatronic degrees in Australia? Do you want to learn how to retrieve a submarine from the ocean floor or build an autonomous drone?

Bachelor of Engineering (Honours) Mechatronic Engineering

What you will study
This study area begins with foundational elements including theory, principles of design, mechatronic systems, professional communication skills and ethics. Your studies will incorporate the dynamics and materials of mechanical engineering along with electrical elements such as circuit design.

You will explore concepts and practical applications with studies in artificial intelligence, signal and systems theory, and control theory. This knowledge will also be integrated with computer science as you learn how mechanical and electrical components work together in aerospace systems and industrial automation.

Each year you will complete a hands-on, project-based subject as part of a student team. This will involve designing and building a system to solve a mechatronics task. Previous projects include a mini-rescue vehicle, autonomous drones, cars and sailboats, and submarine recovery.

You will also complete a robotics project in your third year of study.

“Reflecting on all the opportunities I had – studying engineering, science and languages, being a student leader, an executive member for a student society, studying abroad in Hong Kong and representing the uni through dance – I’ve realised there truly is something for everyone at UQ!”

Pamela Cheok
Bachelor of Engineering (Honours) (Mechatronic) (Minor: Biomedical Engineering) / Bachelor of Science (Biomedical Science) / Diploma in Languages (Chinese)

Manufacturing Engineer II, Boston Scientific, Galway (Ireland)

Combine robotics with computer science and take artificial intelligence to the next level.
Where you can work

Mechatronic engineers are highly sought after as the demand for artificial intelligence systems, robotics, automated industrial machinery and avionics continues to grow globally. You will exit with qualifications that allow you to take advantage of employment opportunities in the aerospace, automotive, robotics, fabrication and processing, mining, shipping and rail sectors.

Mechatronic engineers invent, design and create advanced robotic technology to meet the needs of our future world. Employers include BAE Systems, Arnott’s Australia, Epsom, Google, Amazon, Boeing ABB, Telstra, Uber and Accenture. These engineers can also be found in challenging consulting roles and within public departments and agencies such as the Department of Defence.

Hot jobs

**Automation Engineer**

Entry-level: $51,000–$88,000  
Experienced: $79,000–$135,000

**Design Engineering Manager**

Entry-level: $57,000–$147,000  
Late-career: $104,000–$218,000

*Salaries according to Payscale.com 2019. All figures are in Australian dollars.
Mining Engineering

Mining is one of the most technologically advanced industries in Australia. As a graduate, you’ll help build the most environmentally friendly and productive resources sector we’ve ever seen.

What you will study
As a mining engineer, you will help ensure our communities have the vital metals and minerals we need for the steel frames in our buildings through to the microprocessors in our laptops. You will also possess the expertise to manage all phases of mining operations from discovery through to feasibility, development production, processing and marketing, and finally to mine closure and rehabilitation.

This study area, ranked in the top five in the world*, will provide you with a strong grounding in advanced mathematics, and earth and engineering sciences. Subjects will cover thermodynamics; fluid, particle and structural mechanics; mechanical and electrical machinery; and controls. You will also explore mining methods, mine planning and design, geomechanics, ventilation, surveying, economics, management, safety and environmental aspects.

*QS World University Rankings by Subject 2019

Where you can work
Mining engineers find rewarding roles with local and international mining and contracting companies, and often begin their careers in centres where minerals such as gold, silver, copper, lead, zinc, uranium ores, coal, natural gas, limestone and phosphate rock are extracted. These engineers will usually work (at least in the early stages of their careers) in outdoor conditions away from major cities. Experienced mining engineers also find roles as mine inspectors and advisers to government bodies, and supervise tunnelling and open-cut operations for railways, roads, hydroelectric and sewerage works for civil engineering companies. These engineers are frequently employed by major companies such as Rio Tinto, BHP Billiton and Golder Associates.

Hot jobs

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<thead>
<tr>
<th>Role</th>
<th>Mid-level</th>
<th>Experienced</th>
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<tbody>
<tr>
<td>Mining Engineer</td>
<td>$125,527</td>
<td>$145,591</td>
</tr>
<tr>
<td>Geotechnical Engineer</td>
<td>$50,000–$74,000</td>
<td>$82,000–$238,000</td>
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</tbody>
</table>

*Salaries according to Payscale.com 2019. All figures are in Australian dollars.

How mining is changing

Source: Minerals Council of Australia More to mining 2019

Existing
Drill operator
- Data modeller and systems (working remotely to make decisions about data collected by an autonomous drill rig)

Truck driver
- Autonomous fleet operator (managing the human-to-machine interface with driverless vehicles)

Diesel-powered machines
- Electric and renewable energy-powered machines

Exploratory drilling
- Use of historical and predictive data, real-time data analysis, 3D and virtual reality visualisation software

Standard drill and blast
- Adapting to drilling conditions using AI and robotics, and predicting blast results with 3D simulations and AI

Mining operations
- Data analytics and geological model design skills; data and digital literacy skills; operational and planning skills

Emerging

Source: Minerals Council of Australia More to mining 2019
“It was a passion for problem solving in complex situations that led me to a degree in mining engineering. Not only that, but it is a field that comes with broad career prospects. I chose UQ because it has one of the highest-ranking mining engineering courses in Australia, and you can experience a variety of different majors in your first year.”

George Eadie
Bachelor of Engineering (Honours) (Mining)
Mining Engineer, BHP
What you will study

The software engineering study area focuses on designing high-quality computer software and offers focused studies in computer programming, databases, web-based computing, cloud computing and cyber security. It also explores formal software engineering including how to design programs and systems that are free from errors, reliable, safe, efficient and manageable.

You will learn how to use computers to provide solutions and deliver high-quality code on time that can be integrated into existing operating environments.

In this field, you will use the principles of computer design, engineering, management, psychology and sociology in small or large multinational companies.

Where you can work

Accredited software engineers establish their own companies or work with large corporations in the areas of software design, development and advancement. Diverse roles are available, ranging from information security analysts, computer and multimedia programmers, through to software developers and information systems managers. Graduates also find employment as network managers with oversight of all company data including databases and storage.

Software engineers are employed by leading organisations such as SAP, Oracle, IBM, eBay, LinkedIn, Google and Canon.

Hot jobs

Software Engineer
Entry-level: $48,000 - $79,000
Experienced: $72,000 - $132,000

Software Developer
Entry-level: $40,000- $70,000
Late-career: $72,000 - $213,000

*Salaries according to PayScale.com 2019. All figures are in Australian dollars.
Digital Information is everywhere and has the capacity to revolutionise the way that we live.
Alternative pathways
Bachelor of Engineering (Honours)

Didn’t get a high enough OP?

**Preferred degree**

Bachelor of Engineering (Honours)

Completed Mathematical Methods, and either Chemistry or Physics in high school, but didn’t get the required OP?

Bachelor of Science

Year 2

Bachelor of Engineering (Honours)

Take Engineering academic advice in course selection. Achieve a GPA of 4.0 or higher in your first year.

Receive up to one year of credit towards the BE (Hons). Undertake core engineering courses in second year before realigning.

Don’t have the prerequisites?

**Preferred degree**

Bachelor of Engineering (Honours)

Haven’t completed Physics or Chemistry prerequisite courses for the BE(Hons)? Completed Mathematical Methods?

Bachelor of Information Technology

Year 2

Bachelor of Engineering (Honours)

Take Engineering academic advice in course selection. Complete prerequisite courses PHYS1171 or CHEM1090. Achieve a GPA of 4.0 or higher in your first year.

Receive up to one year of credit towards the BE (Hons). Undertake core engineering courses in second year before realigning.
As the world around you changes, new and fascinating career opportunities are created every day, and job roles increasingly combine multiple disciplines.

A dual program, also called a double degree, will equip you for this evolving job market. It gives you the flexibility to study two different disciplines in a much shorter time, by studying only the mandatory courses for each program with fewer or no electives.

Improve your employment prospects and broaden your skills and knowledge by studying two programs at the same time.

Benefits of dual programs

**Save time**
Graduate with two bachelor's degrees in as little as four years (for some combinations) – a much shorter time than it would take to study both programs separately.

**Strike a balance**
Why compromise when you can balance your studies and your sanity by pursuing both your career ambitions and passions? Dual program students appreciate the diversity of topics offered in their two different programs.

<table>
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<td>B* / 86* / 51* / 85.80*</td>
<td>7 / 87</td>
<td>8 / 84</td>
</tr>
</tbody>
</table>

* Selected dual programs are currently under review, and durations are subject to change. Visit future-students.uq.edu.au for up-to-date information.
* Not all applicants on this OP/Rank gained entry; finer discrimination within the OP/Rank was used.
* Minimum (adjusted) selection threshold 2020 is the minimum score that was considered for an offer of a place to all applicants.
* Lowest OP/Rank to receive an offer refers to all recent secondary students who were offered a place in 2020.
The Bachelor of Engineering (Honours)/Master of Engineering fields of study include:
- Chemical
- Chemical and Biological
- Chemical and Environmental
- Chemical and Materials
- Chemical and Metallurgical
- Civil
- Electrical
- Electrical and Biomedical
- Electrical and Computer
- Mechanical
- Mechanical and Aerospace
- Mechanical and Materials
- Mechatronic
- Software

Students who directly enter the BE(Hons)/ME from first year automatically become members of the Engineering, Architecture and Information Technology (EAIT) Scholars program for their first year of study.

What you will study
If you want to lead your field, advance the boundaries of knowledge and develop high-level competence and expertise, the integrated Bachelor of Engineering (Honours) / Master of Engineering (BE(Hons)/ME) degree is for you.

The Bachelor of Engineering (Honours) / Master of Engineering combines our undergraduate engineering program with master’s level coursework and a semester-long placement or research thesis with an industry or research partner.

These courses are designed to provide specialist knowledge of the various disciplines and place you closer to the leading edge of technology. Industry needs graduates who can apply new technologies to existing and emerging industries. The master’s courses will give you a clear and demonstrable advantage when applying for jobs that require advanced skills and capabilities.

UQ Engineering has a proud history of innovation and leadership in engineering education, and the BE(Hons)/ME program will continue to position UQ engineers as industry leaders, both in Australia and internationally. Our existing industry partners have shown great enthusiasm for this program as a way of developing outstanding engineers.

Gain a clear advantage when applying for jobs that require advanced skills and capabilities

STUDY AREAS
The Bachelor of Engineering (Honours)/Master of Engineering fields of study include:
- Chemical
- Chemical and Biological
- Chemical and Environmental
- Chemical and Materials
- Chemical and Metallurgical
- Civil
- Electrical
- Electrical and Biomedical
- Electrical and Computer
- Mechanical
- Mechanical and Aerospace
- Mechanical and Materials
- Mechatronic
- Software

Students who directly enter the BE(Hons)/ME from first year automatically become members of the Engineering, Architecture and Information Technology (EAIT) Scholars program for their first year of study.
Your integrated masters over five years

YEAR 1  +  YEAR 2  +  YEAR 3  +  YEARS 4 & 5

Flexible first year
You will study foundation courses introducing you to the way professional engineers think and work, combined with engineering practice courses involving engineering design, physical prototyping and modelling – each incorporating different engineering disciplines.

Engineering major
Choose a study area and undertake courses specific to your career aspirations. There are 14 areas to choose from (refer to the table, left).

Consolidate your study
Consolidate your learning in your chosen study area to match your individual career goals. This is also a great time to undertake an exchange semester!

Master’s courses / industry placement
Undertake a semester-long industry or research placement. Your interest and career ambitions will be the driving force behind what you choose to do.

Study advanced-level specialist courses in your discipline and gain exposure to the challenges of engineering.
European double degrees

Take your study overseas and get both a UQ and European master’s degree.

Unique to UQ, this program is exclusively for students studying the Bachelor of Engineering (Honours)/Master of Engineering and allows you to study at some of the best engineering and technical schools in the world.

As part of the Bachelor of Engineering (Honours) / Master of Engineering program at UQ, you have an exciting opportunity to study overseas at one of our premier European partners and to graduate with two master’s degrees – one from our partner university, as well as the integrated Bachelor/Master degree from UQ.

Where can you study?

Technical University of Munich (TUM)
Location: Munich, Germany
TUM Degree: Master of Science in Electrical Engineering and Information Technology
UQ Major: Electrical Engineering

Lund University
Location: Lund, Sweden
(30 mins from Copenhagen)
Lund Degree: Master of Science in Engineering
UQ Majors: Mechanical, Electrical, Mechatronic, Chemical Engineering

CentraleSupélec (CS)
Multiple Campus locations in France
CS Degree: Master of Science/Engineering
UQ Major: Mechanical, Aerospace, Electrical, Mechatronic Engineering

Politecnico di Milano (POLIMI)
Location: Milan, Italy
POLIMI Degree: Master of Science in Engineering
UQ Majors: Electrical Engineering

What our students say about the European Double Degree Pathway

“This has been an amazing experience so far and I really feel like I’ve become even more independent because of it.”

Hera Williamson
Bachelor of Engineering (Honours) (Chemical)
(Lund University, Sweden)

Why complete a European Double Degree?

• Graduate with two master’s degrees instead of one
• Broaden your career opportunities and develop a global network
• Live and study in a different country and gain an excellent working knowledge of another language and culture
• Access industry and work experience opportunities in Europe

Gain a clear advantage when applying for jobs that require advanced skills and capabilities

“This has been an amazing experience so far and I really feel like I’ve become even more independent because of it.”

Hera Williamson, Chemical Engineering
(Lund University, Sweden)
UQ Open Day

St Lucia 2 August 2020 | Gatton 16 August 2020

Open Day is the perfect opportunity to experience UQ. Find out about programs and courses, explore the campus and facilities, meet staff and current students, and enjoy the range of fun activities at this free event.

Visit the website
future-students.uq.edu.au/open-day
Facilities

Our learning facilities provide technologically rich, flexible and comfortable social learning spaces for you to congregate, share ideas, help each other and socialise. Below are just a few of the facilities in which we encourage you to think, explore and create.

State-of-the-art equipment

Virtual Immersive Learning Facility
Powered by three high-powered digital projectors displaying onto an eight-metre semicircular wall, this simulation facility enables you to experience what it feels like to be on site at a mine, a building site or a chemical-processing plant.

Hypersonic Expansion Tube
Travelling at several times the speed of sound is serious business for engineers designing materials for hypersonic space travel. As a UQ engineering student, you’ll be able to test what happens in space right here on campus.

90.3% of current engineering students were happy with facilities and resources*

*Quality Indicators for Learning and Training, 2019

UQ Innovate
UQ Innovate is a newly developed workshop facility where UQ students and staff can meet, collaborate and create in a friendly and supportive environment.

You will have access to trade and academically qualified staff and the latest industry-grade equipment, from laser cutters and 3D printers to water jets.

2200 square metres of makerspace
The Andrew N. Liveris Building

The heart of UQ’s Engineering and Computing Precinct at St Lucia is about to change forever with the construction of a new education hub that will shape and nurture the next generation of designers, thinkers and engineers. The Andrew N. Liveris Building will stand 11 storeys high, and will be the new home of chemical engineering and the Liveris Academy, where researchers, students and industry leaders will come together to tackle some of the world’s biggest challenges. It was made possible thanks to a multimillion-dollar donation from UQ alumnus and global business leader Andrew N. Liveris and his wife, Paula Liveris. Their generosity has funded an innovative space, purposely designed to create a home for culture and collaboration. Opening in 2021.
Meet Guneet, a WE Student Leader and a third year Bachelor of Engineering (Honours) student studying electrical and biomedical engineering.

In high school, Guneet loved maths, science and creativity subjects so her clear career choice was engineering. With a passion for improving human health and an interest in STEM, Guneet is keen to apply engineering principles and methods to medical problems in order to improve the health-care industry on a global scale. Guneet’s particularly interested in humanitarian engineering and aims to research and develop new devices that cater to under-represented communities and make basic healthcare a reality for all. Meet all of our student leaders at eait.uq.edu/we-student-leaders.

UQ’s Women in Engineering Program

Engineers create imaginative and visionary solutions for the challenges facing the planet, to improve the world we all live in. To do this successfully, we need a new generation of diverse engineering graduates who can provide different elements to the solution. Therefore, the best engineering teams must be as diverse as the society they work in.

University-led and industry funded, the UQ Women in Engineering (WE) Program was created with an aim to increase the number of female students studying engineering. The program is led by a team of staff and current UQ engineering students who help foster growth and development of incoming students commencing their engineering degrees at UQ.

The UQ Women in Engineering Program:

- Educates high school students about engineering. You cannot be what you cannot see – therefore we share our message of what engineering is and the diverse career opportunities the degree can lead to. Our outreach extends to a number of high schools across Queensland.
- Supports female students studying engineering at UQ by providing mentoring and network opportunities, and just someone to have a coffee with if needed.
- Connects our female students and graduates with industry players for a smooth transition into the workforce.

There are many reasons why UQ is the university of choice for female students studying engineering - here are just a few of them:

- We have a strong history of female graduates making a positive difference and changing the world. The retention rate for female students studying engineering at UQ has consistently been greater than 85 per cent.
- UQ was the first in Australia to offer a university-led, industry-funded initiative to address the gender disparity in engineering.

The Women in Engineering Program at UQ provides female engineering students with a sense of community and a platform to share new ideas, as well as providing opportunities to build important skills for academic and career success. We encourage all engineering students to join us at our events as we cater for an inclusive and diverse audience.

- Connect with us before you start: If you are offered a place in Engineering at UQ, a WE Student Leader will call you to discuss any questions you might have – from studying engineering to student life on campus.
- Be welcomed from day one: We host an event during orientation week for first year female engineering students – meet other students in your cohort and get to know our 2021 WE Student Leader team.
- We remain connected: WE have events all year round and stay with you throughout your journey at UQ and beyond.
- Inspire future generations: You can apply to be a WE Student Leader once you finish first year and be an integral part of our high school, university, industry activities and events.
- Connect with industry: Our program is strongly supported by industry, and you will have direct access to key employers who are committed to improving diversity with the sector.

Meet Guneet, a WE Student Leader and a third year Bachelor of Engineering (Honours) student studying electrical and biomedical engineering.

In high school, Guneet loved maths, science and creativity subjects so her clear career choice was engineering. With a passion for improving human health and an interest in STEM, Guneet is keen to apply engineering principles and methods to medical problems in order to improve the health-care industry on a global scale. Guneet’s particularly interested in humanitarian engineering and aims to research and develop new devices that cater to under-represented communities and make basic healthcare a reality for all. Meet all of our student leaders at eait.uq.edu/we-student-leaders.
Did you know that at UQ, there are multiple scholarship opportunities, some specifically for women in engineering? scholarships.uq.edu.au

Would you like to know more?
we@eait.uq.edu.au
+ 61 7 3443 1654
eait.uq.edu.au/we
Facebook: UQWomeninEngineering

Proudly supported by our program partners:

Rio Tinto

UQ is the university of choice for women studying engineering in Queensland
Your Computer Science degree

The pace of change in digital technologies is extraordinary. Artificial intelligence, unprecedented computer power, the Internet of Things, big data, and automation will continue to increase and transform the way we work, the way we learn, and the jobs we do in the future. At UQ, you’ll gain the solid tech foundations and skills that industry demands to play a critical role in creating, developing, implementing and evaluating new systems and technology for use in our society.

Your journey as a computer science student

- Select one of 5 CS study areas
- Budding student entrepreneurs can consider the UQ Idea Hub program
- Consider Study Abroad semester
- Graduate from the Bachelor of CS
- Graduate from the Bachelor of CS (Honours)

Flexible First Year
Discipline-specific courses
Innovation Showcase
Advanced application of technology
BCompSci (Honours)

Entry
Year 1
Year 2
Year 3
Year 4

You can join over 220 clubs and societies at UQ

You’re interested in software engineering, user experience (UX) design or data science and cyber security – UQ has a degree to meet your needs.

Ranked top 100 in the world in Computer Science

QS World University Rankings by Subject, 2019

Undertake an industry placement

EAIT STUDENT EMPLOYABILITY TEAM
Getting you employed is our top priority. Get in touch with our Employability Team for industry networking events and workshops, personalised career-prep consultations and placement opportunities.
Bachelor of Computer Science

Interested in shaping the digital future? Gain the fundamental knowledge and practical skills to design, develop and analyse computer-based systems.

What you will study
Computers are an indispensable part of finance, energy, transport, and health and communications. Considering the widespread use of computers, it’s so easy to take them for granted. However, have you ever wondered how computer systems work so well? How can Google Maps load quickly even on a slow network? How do computers control your phones and cars? How can surgical devices reduce tremor in surgeons? The Bachelor of Computer Science is a three-year program designed to provide you with a deeper understanding of all aspects of computer technology. As part of the program, you will combine theory with hands-on experience to learn how to create and analyse computer-based systems.

You will develop strong analytical, logical, and development skills necessary to advance computing, its applications and beyond. As part of the program, you can specialise in: cyber security, data science, machine learning, programming languages, or scientific computing.

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<td>3 years full-time (or part-time equivalent)</td>
<td>1, 2</td>
<td>St Lucia</td>
<td>Expected to be available as an additional year of study</td>
<td>Arts, Engineering (Honours), Mathematics, Science</td>
<td>Queensland Year 12 or equivalent English and Mathematical Methods.</td>
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* Minimum (adjusted) selection threshold 2020 is the minimum score that was considered for an offer of a place to all applicants.

The Bachelor of Computer Science is a three-year program designed to provide you with a deeper understanding of all aspects of computer technology. As part of the program, you will combine theory with hands-on experience to learn how to create and analyse computer-based systems.

See 'Program table explained' on page 64

Minimum (adjusted) selection threshold 2020 is the minimum score that was considered for an offer of a place to all applicants.

Lowest OP/Rank to receive an offer refers to all recent secondary students who were offered a place in 2020.
Areas you can specialise in:

Cyber Security
As computers become increasingly interconnected and support more services than ever before, securing these systems becomes more challenging yet more crucial than ever. By studying cyber security, you will learn the fundamental processes and practices to protect computing systems – be it smartphones, engine control units of your car, computers or servers – from attack, damage or unauthorised access. You will study secure programming techniques and ethical hacking, to safeguard individuals, businesses and governments against cybercrime.

Data Science
Our world is recording more data than we have the ability to process, which presents enormous challenges associated with storage, management and analysis of data. Learn comprehensive and fundamental techniques for end-to-end processing that transforms data into information, and become one of the new breed of data science professionals.

Machine Learning
Machine learning is the study of algorithms that automatically improve performance with experience. Such algorithms allow computers to automatically identify and harness useful data to help decision-making, find hidden insights without being explicitly programmed in where to look, predict outcomes of certain policies to help authorities design effective policies, and many more. This is a massive growth area as society looks for automated and continuous improvements on ways to enhance business and our lives through the use of computing systems and data.

Programming Languages
Programming languages are the building blocks of software in computer science. Covering the different paradigms of programming, this area of study focuses on the design of computer languages that can be easily used to create programs. You will study the craft and science of programming, which will enable the construction of effective programming languages as well as correct and reliable software.

Scientific Computing
You will study algorithms for mathematical analysis. All scientific endeavours, from biology and chemistry to pharmaceutical research, rely on such analysis. Computers hold the key for fast and efficient analysis of complex scientific problems. However, computers are digital systems, requiring discrete inputs and outputs, while mathematical analysis often relies on continuous functions. Therefore, careful approximations are necessary to enable computers to analyse complex mathematical functions used in various scientific endeavours, including in hospitals and university medical research and big pharmaceutical and petrochemical companies across the public and private sectors.

By 2026, Australia will need 18,000 more cyber security workers.

Major cyber security industries:
• Defence/government
• Finance
• Telecoms
• Large tech companies

Other pathways into a career in computing
Bachelor of Science (Computer Science)
Advances in many areas of modern science are increasingly driven by computing. Including computing studies within the Bachelor of Science allows you to expand your career opportunities for a scientific career and gives you a very flexible degree program where you can tailor your studies to your individual needs and select courses from science, information technology and other disciplines across the University.

Search ‘Computer Science’ at future-students.uq.edu.au
Students demonstrating their projects at UQ's 2018 Innovation Showcase
Your Information Technology degree

With an IT degree, your career possibilities are endless. Tech skills are applied to a diverse range of applications in a large number of industries, from e-commerce to developing computer games.

As a UQ IT graduate, you can find yourself working in systems and software development as an analyst, architect, designer, developer, programmer or project manager. The knowledge and skills you learn can also take you abroad, working internationally.

Your journey as an information technology student

Did you know?
The digital technology sector is one of the fastest growing parts of Australia’s economy.

82.5% of graduates are in full-time employment

Computer and Information Systems
Quality Indicators for Learning and Teaching, 2019
Bachelor of Information Technology

The future needs big ideas, fast movers and people with creativity and talent. UQ’s Bachelor of Information Technology will give you the specialised skills and knowledge to meet the needs of a rapidly changing world.

What you will study

Never before have technological changes been faster or more fundamental. From tracking your health using wearable technology to accessing and managing your data in the cloud, information technology is at the core of our new, connected era. UQ’s Bachelor of Information Technology is a flexible, project-focused degree that provides you with the skills and knowledge to take on the new wave of digital roles.

UQ’s Bachelor of Information Technology builds on a solid foundation in software and hardware. Through flexible study plans, you can specialise in areas including computer systems and networks, enterprise information systems, software design and user experience design.

6 of the 10 most valuable brands in the world are tech companies.

Forbes, 2019
Areas you can specialise in:

User Experience Design

New technologies only succeed if they work for people. User Experience (UX) designers are the people who ensure the design of software, websites, or technologies meets their intended use – from commercial software to personal fitness apps to games, and everything in between. The User Experience Design study area is for anyone who wants to work in the multi-skilled field of human-centred design. UX designers work across all sectors of ICT, where their combination of people skills, creativity and technical abilities are in demand. Courses in this major focus on design skills and creativity, programming and prototyping in different media. Design skills are consolidated in Design Computing studio courses.

Software Design

There is a significant sector within the global IT industry that develops applications such as games, apps for mobile devices, or tools and systems used by individuals, government and other companies. This study area is aimed at students who wish to follow a career in the creation and management of software applications. Courses focus on programming, software development, project management, requirements analysis, specification and the software process, as well as software applications involving internet design, human–computer interaction, algorithms, data structures and concurrency.

Information Systems

Information systems are integral to almost every business and government organisation. In this study area, you will develop the skills to design and build the information systems that are used everywhere in our modern life: in retail, banking, healthcare, transport, education, entertainment, science and engineering. During your studies, you’ll not only learn how to create large, effective and efficient information systems, but also how to incorporate business management processes into the system’s development in order to maximise the system’s performance.

“Studying at The University of Queensland is learning to learn – you will pick up skills that will allow you to adapt quickly to the rapidly changing world around you, especially with the constant changes to technology. It is a skill that you will be blessed with forever.

With skills in technology, you can work anywhere you want – I have worked in marketing and fundraising, and now I’m working in the mining industry. Tech skills are universal, so you could essentially work anywhere in the world.”

Kate Meimaris
Bachelor of Information Technology / Bachelor of Arts (French)
Specialist Data Analyst, BHP
Ainsley Nand, Bachelor of Engineering (Honours) (Electrical and Biomedical) / Master of Engineering current student.
The Engineering, Architecture and Information Technology (EAIT) Student Employability Team is driven by knowledge from successful collaboration with industry to deliver the best in employability information and assistance to empower you to develop career management skills for successful employment outcomes.

Our specialised team brings years of industry experience in human resources, including graduate program management, and is here to assist you in building key employability skills.

The team provides a range of services, including:
- access to employer information and job opportunities
- insight into career types and paths
- networking events with prospective employers
- professional practice guidance and access to jobs
- assistance with job applications, including resume and cover letter review and advice
- access to work experience and professional practice opportunities
- interview and assessment centre preparation, including practice sessions
- a wide range of employability workshops
- one-on-one consultations tailored to your specific employability needs
- student and industry-led panel evenings
- employer-led information presentations and workshops.

Get career ready
It’s never too early to start thinking about your employability. The EAIT Student Employability Team has advice and resources to help get you through the recruitment process and prepare for your career.

Contact us:
+61 7 3365 8534
employability@eait.uq.edu.au
eait.uq.edu.au/employability

Facebook: EAIT Student Employability
(for daily graduate jobs, professional practice and work experience opportunities, tips, upcoming workshops and events)
Isabella Fyfe, Bachelor of Architectural Design graduate
Your life in Architecture

Our creative and globally focused courses help you develop the skills you’ll need to design smart and sustainable buildings and places. You’ll have access to the latest technologies, innovative processes and a wealth of architectural and built environment resources and experience to create a strong foundation for your design career.

Your journey as an architectural design student

- Learn the fundamentals of creative design
- Consider Study Abroad semester
- Graduate from the Bachelor of Architectural Design
- Graduate from the Master of Architecture

Start your Architectural Design studies

Foundation Year
- Entry

Develop design skills for local and global contexts
- Year 1

Hone your design skills through practice
- Year 2

Master of Architecture
- Year 3
- Year 4
- Year 5

You can join over 220 clubs and societies at UQ
Be inspired by unfamiliar places and consider an International Travel Studio
Consider a year in industry or jump straight into a Master of Architecture
Gain an accredited degree that enables you to work around the world

96.8% students found employment or continued full time study*

*Quality Indicators for Learning and Training, 2019

Top 100 in the world for Architecture/Built Environment courses*

*QS World University Rankings by Subject, 2019

Latest design technologies

Collaborative culture

Global focus – learn locally and globally
Want to make the world a better place through sustainable design and innovative solutions? Then a career in architecture might be for you.

What you will study
Architects solve diverse and complex problems. The Bachelor of Architectural Design provides you with the fundamental skills and technical knowledge you’ll need to develop innovative and sustainable design solutions for our future buildings, communities and environments.

At UQ, you will develop your creative problem-solving skills with constructive and progressive project-based courses in design and technology. The School of Architecture’s facilities give you access to the latest technologies and resources to develop your ideas from design conception through to presentation, documentation and models.

You will gain a rich understanding of cultures, people and places throughout history and in today’s societies. You’ll experience how the built environment can impact communities through inspiring international study tours, Indigenous and multicultural projects, and our diverse and globally experienced teaching staff.

Integrated sustainability and technology
The natural and urban environment will also directly impact on your designs. Your education in sustainable systems, materials and strategies is integrated into both your design and technology courses, where you will also learn about structural systems and construction methods, as well as visiting architectural building sites during construction.

Practical experience
The design courses form the main area of study in the Bachelor of Architectural Design. In these courses, projects are developed in a studio setting through the application and integration of the knowledge and skills acquired from supporting courses. In addition to design, key areas of the program include environmental design, architectural technology, history and theory, communication, and digital design.

Aims and specific objectives
On completion of the Bachelor of Architectural Design, you will be able to:

• start your career as a junior designer in an architectural practice, draftsperson, building designer or 3D visualisation artist
• use conceptual ideas to design the built environment at all scales – from broad strategic thinking to the detailed resolution of buildings
• present and discuss architectural design outcomes with peers, the profession and the community
• articulate a coherent set of architectural design values.

COURSE HIGHLIGHTS
• International study tours
• Learn from leading architects
• Small design classes
• Project-based learning
• Industry mentorship opportunities

Left: Bachelor of Architectural Design third-year student Jordie Russell’s Architectural Design 6: Tectonics and Precision exhibition model.
Becoming an architect
Following the completion of your Bachelor of Architectural Design, your next step to becoming a registered architect is with UQ’s Master of Architecture.

Master of Architecture
The Master of Architecture is the second stage of UQ’s Architecture program, providing you with the necessary skills, experience and qualifications for your registration as a professional architect. You will undertake a range of courses designed to broaden your creative design skills, and develop advanced technical and professional skills relevant to the practice of architecture.

Students often choose to spend a year or more working in an architectural practice to gain professional experience before returning to complete their Master of Architecture.

Professional Affiliations
On graduating from the Master of Architecture degree, you will be eligible for membership with the Australian Institute of Architects.
Above: Bachelor of Architectural Design students study Seoul at a scale of 1:1500 at the Seoul Museum of History.

Below: The School of Architecture has many flexible and multi-functional spaces where bachelor’s and master’s students can collaborate, socialise and exhibit their work.
Above: Each graduating year is celebrated with an end of year exhibition offering great employment exposure to the architecture industry.

Below: There is nothing like experiencing an international culture first-hand, which is exactly what students did in 2019 when travelling to India through one of our design studios.
How will you learn?

At UQ, it’s all about practical and creative learning through design studios. UQ Architecture emphasises the importance of practical skills so that you can communicate and refine your ideas through drawings, models, prototypes and structures. Our teaching model is founded on hands-on learning at multiple scales, leading to more complex materials and forms. You’ll learn all this and more in our design studios.

What is a Design Studio?
Design studios are essentially classes which help you research, explore and innovate solutions for a changing world. Run by academics or members of the global architecture industry, design studios reflect the processes and culture of architectural firms. Studios are based on current projects and problems which you will thoroughly interrogate. At the end of each semester you will present your design concept in front of your peers and experts.

In our studios, you will learn to create exciting new spaces by testing ideas three-dimensionally, through making and building. Working hands-on with paper, card, clay and foam will give you the confidence to experiment with architectural form. You’ll also have opportunities to make models using laser cutters and 3D printers, to construct furniture and prototypes, and even to work on small buildings using our well-resourced workshop facilities.

Your design studio time will make up the majority of your contact hours on campus (up to 50 per cent).

International Travel Studios
Travel is an essential part of an architectural education. Unfamiliar places inspire creative ideas. Travel gives you the chance to experience architecture from different places and times and provides perspective and understanding of diverse cultures.

An international career
As a UQ Architecture student, you’ll have the opportunity for international travel as part of your degree. In the last four years, our students have enjoyed study tours to Hong Kong, the US, Japan, India, Myanmar, Malaysia and Sri Lanka. UQ Architecture has won generous funding from the federal government for its international travel program that has supported more than 150 students.

We believe that travelling prepares our graduates for international careers as architects. Students who study abroad are likely to be more resourceful, willing to take chances and immerse themselves in unfamiliar situations, and have cross-cultural understanding and curiosity.

Mentoring through the Institute of Architects
Architects from the Brisbane Chapter of the Institute of Architects mentor students, offering career guidance along with industry experiences such as site visits.

We encourage students to join the institute and build connections with the architectural community.
What you can do with a Bachelor of Architectural Design

Hot jobs
- Architect
- Interior designer
- Urban designer
- Project manager
- Design manager
- Wayfinding designer

Jobs where your Bachelor of Architectural Design would be useful:
- Design-oriented publishing and media
- Building surveyor
- Construction manager
- Academic
- Conservation professional
- Landscape architect
- Production designer in theatre, film and television
- Town planner
- VFX artist

“UQ provides many opportunities to travel and tailor your learning to forge your own career path. I learnt that it’s okay follow the road less travelled, to have the courage to do things in your own way and create your own path, whether it be in life or a particular project.

For future students wanting to enter the field, I would recommend that they take risks and have the courage to explore new and different avenues, whether it be doing things differently to others in their projects, or following a unique career path or even taking the opportunity to travel overseas. Daring to do things differently can be an unexpectedly rewarding and eye-opening experience.”

Julia Zin
Project Co-ordinator/Architecture Student at Conrad Gargett, Brisbane.

“If you often find yourself noticing your surroundings and how a space makes you feel, then architecture might be for you. If you’re passionate about design and shaping our world for the better, then go for it.

My best memory of studying at UQ was a trip to Myanmar where we worked on the conservation and adaptive reuse of significant heritage buildings that were at threat. It was a fantastic opportunity to work with the global architecture community such as local architects, heritage societies and students.”

Matthew Walton
Architectural Assistant, Rothelowman Architects, Brisbane.
Regional and Town Planning students in UQ’s Planning Studio
Your place in Urban Planning

Develop the knowledge and skills needed to help communities, companies and governments integrate the urban, environmental, economic and social aspects of development from site design to regional scale analysis.

Your journey as a planning student

- Work on planning projects with industry partners
- Consider Study Abroad
- Choose your BRTP or BRTP (Honours) program
- Graduate from BRTP
- Graduate from BRTP (Honours)

Entry Year 1 Year 2 Year 3 Year 4

- Discipline-specific courses
- Discipline-specific courses plus Professional Practice and/or honours research
- Undertake an industry placement

- Gain a degree accredited by the Planning Institute of Australia and enter the urban planning profession
- Go on site visits and elective field trips in Australia, Hong Kong and Indonesia
- You can join over 220 clubs and societies at UQ

#48 in the world for Built Environment, Geography, Environmental Studies and Urban Planning

QS World University Rankings, 2019

You will undertake a planning project each year, where you will work with industry, government and community partners on real-life developments in South East Queensland.

You have the opportunity to enrol in courses that will take you on field studies to Indonesia, Vietnam and Hong Kong.
Bachelor of
Regional and Town Planning

From site design to regional-scale analysis, you will learn how planning helps communities, companies and governments integrate the environmental, economic and social aspects of development.

What you will study
Learn land-use planning, urban design, transport and infrastructure planning, community planning, heritage and conservation, resource management, environmental monitoring, planning law and practice, commercial and industrial development, and policymaking and implementation. You will gain skills in long-range planning as well as structural and statutory components, including the current development of the built and natural environments and the legislative framework controlling land use. Your lecturers are experts in planning theory and practice, and collaborate with guest lecturers from industry to give you access to case studies from the professional sector. You will gain knowledge and practical skills, and undertake industry-focused planning projects in each year of your studies. In your fourth year of study, you can choose to focus on industry or undertake a research project (honours) or, if qualified, you can undertake both. You will receive advice during the third year of your program as to which of these options is most appropriate based on your areas of interest and your academic performance during the first three years of the program.

Placements and practical experience
Throughout the program you will undertake real-life planning projects. These projects expose you to planning, urban design and community engagement activities. Past students have worked on the Indooroopilly Activity Centre, Yeerongpilly transit-oriented development site, and the inner-city redevelopment for Brisbane City Council. Choose to internationalise your studies by enrolling in field studies courses to Indonesia, Vietnam and Hong Kong, which focus on the development of cities and urban areas, and the key issues facing different regions around the world. Or you may choose to study a semester abroad in planning programs at UQ’s partner universities through the UQ Abroad program.

SAMPLE COURSES
- Advanced Planning Practice
- Community Planning and Participation
- Cultural Heritage Management
- Human Settlements
- Introduction to Planning
- Professional Planning Practicum
- Real Estate Development Planning
- Resource Management and Environmental Planning
- Teamwork and Negotiation for Planners
- Transport Planning
- Urban Design

For more information
future-students.uq.edu.au
science.uq.edu.au/planner

<table>
<thead>
<tr>
<th>QTAC CODE</th>
<th>MINIMUM SELECTION THRESHOLD 2020&lt;sup&gt;a&lt;/sup&gt;</th>
<th>LOWEST OP / RANK TO RECEIVE AN OFFER 2020&lt;sup&gt;b&lt;/sup&gt;</th>
<th>DURATION</th>
<th>START SEMESTER</th>
<th>CAMPUS</th>
<th>HONOURS</th>
<th>ADMISSION REQUIREMENTS</th>
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<tbody>
<tr>
<td>7020002</td>
<td>10 / 79 / 28 / 78.10</td>
<td>10 / 79 / 12 / 75</td>
<td>4 years full-time (or part-time equivalent)</td>
<td>1, 2</td>
<td>St Lucia</td>
<td>At the end of year 3, eligible students will have the option of transferring to an honours year with a research project, or to complete fourth year by coursework</td>
<td>Queensland Year 12 (or equivalent) English</td>
</tr>
</tbody>
</table>

<sup>a</sup> Minimum (adjusted) selection threshold 2020 is the minimum score that was considered for an offer of a place to all applicants.

<sup>b</sup> Lowest OP/Rank to receive an offer refers to all recent secondary students who were offered a place in 2020.
"The university opens doors to opportunities you may never have expected. One of the best experiences during my time at UQ was taking part in a summer semester course in Vietnam. It was the most exciting and enriching learning experience of my life to be able to study at a Vietnamese university and experience the culture while working toward my degree. The real life experiences combined with my fieldwork go far beyond what is achieved only in a lecture theatre."

Heidi Duncan  
Bachelor of Regional and Town Planning,  
Town Planner,  
Arcadis Australia Pacific

"I chose to study at UQ because of its reputation, as it is well recognised both locally and internationally. The support from lecturers and tutors at UQ was incredible. My lecturers in strategic planning and urban design really forged my passion for planning at a macro level. The staff are genuinely interested in nurturing you to be the best planner you can be, and provide you with all the tools necessary to start you off in the world of Planning."

Nicholas Nalder  
Bachelor of Regional and Town Planning

Where can I work?  
You will be entering a dynamic industry that improves the quality of life for people in cities and regions. As a UQ graduate, employers will seek your ability to make environmentally, socially and economically sustainable decisions. You will be employed in a variety of roles in the public and private sectors, including:

- statutory or strategic planning
- regional development
- urban design
- environmental management and monitoring
- technology for planning
- spatial planning
- commercial and industrial development
- engineering and architectural applications
- heritage and conservation
- land-use planning
- planning law and practice
- resource management
- social planning
- tourism
- transport planning.
Whatever your ambitions – to be a leader, start a business, enhance your employability or contribute to a social enterprise – UQ’s suite of entrepreneurship programs will support you to prepare for the future of work and reach your full potential.

You’ll be encouraged to take initiative, extend your problem-solving capabilities and apply ideas – all while remaining flexible, resourceful and creative.

With access to a large community of mentors, researchers and investors, UQ is supporting the next generation of leaders to create change.

UQ Idea Hub
All students can participate in a hands-on program through UQ Idea Hub. Gain experiences that will enable you to look at problems from a different perspective, learn about design thinking, be creative and progress projects to the prototype stage, and get ready for market testing and validation. Get access to globally renowned industry mentors and a 24/7 co-working space. You can also participate in other programs including LeadHERs for women and the annual UQ Weekend of Startups.

UQ Idea Hub also runs Startup Adventures, where selected students receive a scholarship to undertake a four-week internship at some of the world’s most vibrant startup locations, including San Francisco, Tel Aviv, Singapore and Shanghai.

ventures.uq.edu.au/idea-hub

Startup Academy
To succeed in a new venture, you don’t just need a great idea, you also need a great business model. UQ’s Startup Academy supports student entrepreneurs to discover appropriate business models for their ventures, and validates the fit between market needs and ideas. Supported by Entrepreneurs in Residence, academic faculty members and mentors, the Startup Academy boosts your chance of success, whether that’s the launch of a business, an app or a social enterprise.

ventures.uq.edu.au/programs/startup-academy

Turn your idea into something big

Venture ahead with UQ’s entrepreneurial community.
Undergraduate courses
Entrepreneurial thinking is woven into the fabric of our degree programs, with over 40 courses relating to innovation, entrepreneurial mindset and entrepreneurship across our faculties. There are dedicated courses, such as Foundations of Entrepreneurship and Social Entrepreneurship, and you will also find a range of subject-specific courses that enable you to develop and apply an entrepreneurial mindset during your studies, such as Critical Reasoning, Public Relations Project, and Clinical Nursing Practice.

ilab Accelerator
To take ideas to the next level, UQ provides students with the opportunity to participate in the iLab Accelerator program. This program provides equity-free funding, workshops, one-on-one mentoring from an Entrepreneur in Residence, desk space and access to professional networks.

Leading researchers
We don’t just teach the latest research, we create, translate and commercialise it. Some of UQ’s research highlights include cervical cancer vaccine Gardasil®, the Triple P – Positive Parenting Program, world-leading MRI technology and alternative energy sources.

Access tools and spaces
At UQ, we have collaborative spaces with the latest industry-grade equipment, from 3D printers to water jets open to students, staff and researchers. You also have access to free online entrepreneurial courses, entrepreneurs in residence and funding resources.
Apply for a scholarship

Make your UQ experience more affordable with the support of a scholarship. You may not think you’re eligible for a scholarship, but you might be surprised!

University-wide scholarships

UQ has a range of scholarships designed to reward the achievements of outstanding school leavers, to identify, support and develop tomorrow’s leaders, and to offer support to students who might not otherwise be able to attend university.

UQ also has a number of other scholarships for both undergraduate and postgraduate students that provide fee relief or financial assistance, which you can apply for even after you have started at UQ.

Keep an eye out for upcoming scholarships related to your study area. There are also scholarships to help with studying abroad, assistance for regional and rural students, and career-specific scholarships. If you are completing Year 12 in 2020, or you completed Year 12 in 2019 and are on a gap year, you may be eligible to apply for a scholarship.

scholarships.uq.edu.au

Sporting

If you excel in both your chosen sport and academic studies, you may be eligible for a UQ Sporting Scholarship. A range of scholarships are offered in partnership with UQ Sport.

Elite athlete support

UQ is an elite athlete-friendly university, which supports over 200 elite-level student-athletes manage their sport and studies. Dedicated UQ Sport staff, in partnership with UQ, provide academic liaison support to negotiate flexible options for enrolment, assessment and course-related needs.

uqsport.com.au/scholarships

Engineering, Computing, Architecture scholarships

Agility Applications Regional QLD ICT Scholarship

To encourage and support first-and second-year students from regional areas to pursue a Bachelor of Computer Science, Bachelor of Information Technology or Bachelor of Engineering (Honours) in electrical and computer or software.

Award value: $8000 for one year.

Electrical Engineering Alumni Advantage Scholarship

To encourage and support first-year students undertaking the Bachelor of Engineering (Honours) program (including a dual program) in the field of electrical engineering from an ‘under-represented’ cohort – this means that the student will be facing financial disadvantage, and/or is female, and/or is Indigenous.

Award value: $3000 for one year.
“I am the first in my family to pursue tertiary studies. I didn’t go to university straight after high school. Over time, in a number of jobs, I gradually uncovered my passion for information technology and programming, but I wanted to know more. This led me to look into how I could apply to university.

Due to my high school transcript, applying for university wasn’t straightforward, but, it can be done! I studied and passed the STAT test to give me an eligibility ranking high enough to apply for my degree. I also completed a Maths B course via distance education. I am currently studying a Bachelor of Information Technology at UQ.”

Brady Whitby
Bachelor of Information Technology student
UQ Alumni Scholarship recipient

ICT Excellence Scholarship in Information Technology and Electrical Engineering
To encourage and assist first-year students studying a Bachelor of Computer Science, Bachelor of Information Technology, Bachelor of Engineering (Honours) in electrical, electrical and biomedical, electrical and computer, mechatronic or software engineering, or the Bachelor of Engineering (Honours) / Master of Engineering.
Award value: $3000 for one year.

ICT Alumni Advantage Scholarship
To encourage and support first-year students undertaking a Bachelor of Computer Science, Bachelor of Information Technology or Bachelor of Engineering (Honours) / Master of Engineering or the Bachelor of Engineering (Honours) in electrical or software (including a dual program involving one of these) from an ‘under-represented’ cohort – this means that the student will be facing financial disadvantage, and/or is female, and/or is Indigenous.
Award value: $3000 for one year.

Kathy Hirschfeld Scholarship for Women in Engineering
To encourage and support a female student undertaking their first year of the Bachelor of Engineering (Honours) or Bachelor of Engineering (Honours) / Master of Engineering programs.
Award value: $5000 for one year.

Leanne Bond Scholarship for Women in Engineering
To encourage and support a female student in the first year of the Bachelor of Engineering (Honours) or Bachelor of Engineering (Honours) / Master of Engineering programs.
Award value: $5000 for one year.

WSP Scholarship for Women in Engineering
To support female students undertaking their first year of the Bachelor of Engineering (Honours) or Bachelor of Engineering (Honours) / Master of Engineering who can demonstrate educational/financial disadvantage and/or geographic isolation.
Award value: $8000 for one year.

RN Hammon Scholarships
To assist Australian Indigenous students to undertake post-secondary study in Queensland.
Award value: the value of the scholarship is determined each year.

Faculty of Engineering, Architecture and Information Technology Year 12 International Award
To assist international students who have completed senior high school.
Award value: $10,000.

Western Australia Alumni Regional Scholarship for Engineering
To encourage and support a first-year student from remote or regional areas to study the Bachelor of Engineering (Honours) or Bachelor of Engineering (Honours) / Master of Engineering programs.
Award value: $5,000 per year for four years.

There are also many scholarships available for students in second and later years that provide fee relief or financial assistance.
scholarships.uq.edu.au

Please note: All figures were correct at time of printing but are subject to change. See scholarships.uq.edu.au before applying to confirm correct values.
Getting here

Our campuses are easy to access using public transport.

Cycling and walking
- Park securely at UQ St Lucia Bikebox facilities or bike racks
- Walk to UQ St Lucia from local suburbs or via the Eleanor Schonell Bridge

Travel options to UQ campuses

<table>
<thead>
<tr>
<th>UQ ST LUCIA</th>
<th>UQ GATTON</th>
<th>UQ HERSTON</th>
</tr>
</thead>
<tbody>
<tr>
<td>7km from the CBD</td>
<td>5km from Gatton CBD</td>
<td>5km from the CBD</td>
</tr>
<tr>
<td>10+ direct bus routes</td>
<td>1 hour from Brisbane</td>
<td>2 minutes to Inner Northern Busway from the CBD</td>
</tr>
<tr>
<td>One arrives every two minutes at the UQ Lakes bus stop</td>
<td>4+ inter-campus buses daily</td>
<td></td>
</tr>
<tr>
<td>5+ train stations within 4km</td>
<td>Rail-bus service runs between Brisbane and Gatton</td>
<td>3+ train stations within 2km</td>
</tr>
<tr>
<td>15 minutes between each ferry</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

UQnav app
Download the UQnav app or view our interactive, searchable maps to help you navigate our campuses.
uq.edu.au/uqnav

CellOPark app
Download the CellOPark app to make parking at UQ easier. Note that parking at UQ St Lucia and UQ Herston is extremely limited.
View fees and charges for parking.
campuses.uq.edu.au/parking

MyTranslink app
Download the MyTransLink app to plan your journey to UQ on public transport.
Concessions may be available.
translink.com.au
Are you an international student?

While a lot of information in this guide is relevant to you, certain key information may be different for international students.

You are an international student if you are:
• not a citizen of Australia or New Zealand, and
• not an Australian permanent resident, and
• a temporary resident (visa status) of Australia.

Eligibility for UQ study
For admission into undergraduate programs at UQ, you must have:
• completed secondary studies equivalent to Queensland Year 12 with a score comparable to the Queensland rank specified for your program
• satisfied individual program requirements (e.g. specific subject prerequisites, auditions or interviews)
• satisfied UQ’s English language proficiency requirements.
If you do not meet these criteria, you might consider taking the Foundation Year bridging course offered by International Education Services (IES) or English language training offered by the Institute of Continuing and TESOL Education (ICTE).

Foundation Year bridging course
iescollege.com/foundation-year/home

Institute of Continuing and TESOL Education
icte.uq.edu.au

English language proficiency requirements
future-students.uq.edu.au/applying/english-language-proficiency-requirements

Applying to UQ
A UQ degree is a qualification the world will recognise. If you’ve got the ability, commitment and ambition to make the most of UQ, then we want to hear from you.

Study options at UQ
If you would like to know more about your study options at UQ, enquire through our online form and one of our UQ advisers will respond. Register for an advisory session. If you are in Brisbane, sign up for a campus tour.

Tuition fees
As an international student, you will pay tuition fees, a Student Services and Amenities Fee, and potentially other administrative fees. UQ has program-based tuition fees for coursework award programs, meaning that all courses within a program are charged at the same tuition fee rate per unit for a given academic year. Some programs also have additional costs.

Other expenses
International students applying to study in Australia must have a student visa or an alternative visa that enables them to study full-time on campus. Please consider expenses such as visa and medical (pre-departure) fees, general living expenses, return airfares, and Overseas Student Health Cover (OSHC) when you plan your budget.

UQ has more than 20,000 international students from 143 countries
See the world

See the potential of the world. Gain the knowledge to make it better.

Lachie (Bachelor of Engineering (Honours)) on exchange at Arizona State University. Photo taken at Horseshoe Bend, Grand Canyon, Arizona.
How to study overseas
Studying overseas is an ideal way to enhance your employability while also enjoying the experience of a lifetime. As a UQ student, you can access a range of global experiences, from exchange and short-term study, to international internships, volunteering and opportunities to represent UQ on the global stage. Our Global Experiences team can help guide you through the application process and get you set for international success.

Student exchange program
Study overseas in your choice of 38 countries for up to one year, while still gaining credit towards your UQ degree. While you’re on exchange, tuition fees at the host university are waived and you’ll continue to pay fees and be enrolled at UQ. You can even apply for exchange scholarships and may be eligible for an OS-HELP loan to assist with airfares, accommodation, travel insurance and living costs.

Short-term experiences
Want to study or live overseas for only a short time? Short-term global experiences are a great way to discover more of the world, develop valuable contacts and make the most of your semester breaks. Many experiences at approved host universities in Asia, Europe, the USA or Latin America are eligible for credit towards your UQ program.

Universitas 21 student experiences
UQ is a member of Universitas 21 (U21), an international network of leading research-intensive universities that work together to enhance the student experience across the world. Apply to participate in a range of U21 student experiences such as short-term Summer / Winter Schools, global competitions, and student exchange, and build your global network of like-minded peers.

Start planning now!
If you’re interested in studying overseas, the Global Experiences team offers information sessions throughout the year, or you can speak to an adviser.

---

180 exchange partners
100+ short-term programs
$2m student funding support for overseas opportunities
1500+ students participating in global experiences
Applying to UQ

Follow the steps to apply to UQ and start on the path to your future.

**STEP 1**
Choose your program

- Read your options on pages 8-53.
- Visit future-students.uq.edu.au.

TIP: Check that you meet all academic and other entry requirements and meet any specific program deadlines.

**A range of study area guides and other UQ publications can help you choose the right program.**
future-students.uq.edu.au/publications-and-forms

**STEP 2**
Apply to study

- **Future students**
  Apply by visiting qtac.edu.au.

- **Current students at other universities**
  Apply by visiting uq.edu.au/apply.

TIP: Before applying, check that your current institution will give you transferable credit.

**How to apply via QTAC**
Apply for admission to UQ undergraduate programs through the Queensland Tertiary Admissions Centre (QTAC). The QTAC website explains how to apply, the entry requirements, and the application deadlines.
List up to six program preferences, but you will receive only one offer – for your highest preference that you are eligible for. Place programs in order of preference, placing your dream program first and your back-up options next.

**STEP 3**
Accept your offer

1. Log in by clicking ‘Applications’ and then ‘Application Log In’ at qtac.edu.au.
2. Select ‘Log In’ and enter your details.
3. Select the ‘Accept’ offer option.
4. Accept your offer.

5. Activate your student account.
6. Go to my.uq.edu.au/starting-at-uq and follow the instructions.
7. Get excited about starting at UQ.

**STEP 4**
Enrol in courses

1. Access your program rules, course list and other helpful information by logging in to my.uq.edu.au/starting-at-uq.
2. Choose your courses at my.uq.edu.au/programs-courses.

3. Enrol online at sinet.uq.edu.au.
4. Select preferred class times via My Timetable (in my.UQ portal)
5. Pay fees (see page 63).

**STEP 5**
Prepare for Week 1

- Complete the steps on the Starting at UQ website.
  my.uq.edu.au/starting-at-uq.
- Attend a Getting Started session.
- Check if you need to attend any program sessions before Orientation Week.
- Pick up your student ID card after you have enrolled.

- Get answers to any remaining questions before classes start by emailing starting@uq.edu.au.

**STEP 6**
Let's go!

- Prep Week – jump-start your university journey.
- Experience a taste of #uqlife during Orientation Week.
- Connect Week – join the social scene, make new friends and link in with your academic circle.
- Culture Week – experience UQ’s diverse cultural and global networks.

- Success Week – learn about the resources available to help you succeed at UQ.
- Instagram (@uniofqld) or Snapchat (uniofqld) your UQ experience to your friends.
Plan your finances

University is a valuable investment in your future. Knowing what it costs will help you manage your money.

Fees and costs

Course fees and student contributions

Most undergraduate places for domestic students at UQ are funded partly by the Australian Government (Commonwealth support) and partly by you (student contribution).

Fees are charged according to the courses you choose, not the program you’re enrolled in, so it’s not possible to publish a fixed fee for a program. Because most students can choose different electives during their program, costs will vary.

However, indicative annual fees are listed with each program on our Future Students website to help you plan your budget.

If you’re an Australian or New Zealand citizen, or an Australian permanent humanitarian visa holder and have a Commonwealth-supported place, you may also qualify for the Higher Education Loan Program (HELP) to defer payment of your student contribution and Student Services and Amenities Fee (SSAF). You will need to apply for a tax file number at ato.gov.au, if you don’t already have one, in order to obtain a HELP loan.

International students pay full tuition fees. If you have a Commonwealth-supported place, your student contribution amount depends on the fee band level of the courses you choose (see table at above right).

Future-students.uq.edu.au/study/find-a-program

Student Services and Amenities Fee

The Student Services and Amenities Fee (SSAF) is a compulsory fee that is used to subsidise, support or fund non-academic services for students, such as support services, advocacy, study skills, career development and employability.

UQ levies the SSAF – which is capped at a maximum of $308 for 2020 – according to whether you’re an internal or external student, and full-time or part-time. The fee is indexed annually.

btf.ly/uq_ssa

Keeping your costs down

• Investigate the financial support and fee payment options offered by Centrelink.
  humanservices.gov.au
• Explore the scholarships on offer (see pages 56-57).

Commonwealth-supported fee bands

<table>
<thead>
<tr>
<th>BAND</th>
<th>AREA OF STUDY</th>
<th>ANNUAL STUDENT CONTRIBUTION*</th>
</tr>
</thead>
<tbody>
<tr>
<td>3</td>
<td>Law, accounting, administration, economics, commerce, dentistry, medicine,</td>
<td>$11,755</td>
</tr>
<tr>
<td></td>
<td>veterinary science</td>
<td></td>
</tr>
<tr>
<td>2</td>
<td>Mathematics, statistics, computing, built environment, allied health, other</td>
<td>$9,527</td>
</tr>
<tr>
<td></td>
<td>health, science, engineering, surveying, agriculture</td>
<td></td>
</tr>
<tr>
<td>1</td>
<td>Humanities, behavioural science, social studies, education, foreign languages,</td>
<td>$6,684</td>
</tr>
<tr>
<td></td>
<td>visual and performing arts, nursing, clinical psychology</td>
<td></td>
</tr>
</tbody>
</table>

*2020 figures only, based on a full-time (16 unit) workload; figures indexed annually

Monthly cost of living

<table>
<thead>
<tr>
<th></th>
<th>STUDENT LIVING IN ON-CAMPUS COLLEGE</th>
<th>STUDENT LIVING OFF-CAMPUS / STUDENT ACCOMMODATION</th>
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</thead>
<tbody>
<tr>
<td>Rent</td>
<td>$2,000–$2,800</td>
<td>$480–$1,750</td>
</tr>
<tr>
<td>Utilities (gas, electricity, water) included in rent</td>
<td>$150–$175</td>
<td>$320–$600</td>
</tr>
<tr>
<td>Food</td>
<td>included in rent</td>
<td>$80–$120</td>
</tr>
<tr>
<td>Mobile phone / internet</td>
<td>$80–$120</td>
<td>$80–$120</td>
</tr>
<tr>
<td>Public transport</td>
<td>$40</td>
<td>$50–$100</td>
</tr>
<tr>
<td>TOTAL</td>
<td>$2,120–$2,960</td>
<td>$1,080–$2,755</td>
</tr>
</tbody>
</table>

*This table should be taken as a guide only. For the most accurate costs of living, visit my.uq.edu.au/starting-at-uq/student-finances/budgeting

Fees

For 2021 are expected to be available from August 2020.

Before you enrol, faculty Academic Advisers can help you develop a study plan.

my.uq.edu.au/fee-schedules
**Program table explained**

**START SEMESTER**
The academic year at UQ is divided into two main semesters. Semester 1 starts at the end of February and Semester 2 starts at the end of July.

**CAMPUS**
One of three UQ teaching sites where the majority of lectures are held.

### QTAC CODE
A unique code number assigned by QTAC to each individual undergraduate university program. You will need to use this number on your QTAC application.

### MINIMUM SELECTION THRESHOLD
The minimum (adjusted) selection threshold is the minimum score that was considered for an offer of a place to all applicants.

**OP** – Overall Position. A statewide order of ranking students from 1 to 25 (with 1 being the highest) based on achievement in QCAA subjects studied for the Queensland Certificate of Education. Phased out in 2019.

**Rank** – (also selection rank) Selection rank ranging from 1 to 99 (with 99 being the highest) allocated to university applicants who are not current Year 12 students in Queensland (OP eligible). Rank is usually determined by academic results in the highest level of study completed.

**IB** – International Baccalaureate points.

**ATAR** – The Australian Tertiary Admission Rank (ATAR) is the standard measure of overall school achievement used in all Australian states and territories (with the exception of Queensland). It is a rank indicating a student’s position overall relative to other students. The ATAR is expressed on a 2000-point scale from 99.95 (highest) down to 0, in increments of 0.05. For 2021 admission, the ATAR will replace the Overall Position (OP) as the standard pathway to tertiary study for Queensland Year 12s.

### DUAL PROGRAM
Two UQ degree programs undertaken at the same time (sometimes known as dual / parallel / combined / double degree). This box lists dual programs you can choose to study with a program.

### ADJUSTMENT FACTORS
Previously referred to as ‘bonus points’, these are a numerical value added to or used in combination with an OP or selection rank. Common adjustment factors may include subject adjustments, enrichment studies, or educational disadvantage.

**Adjusted**
The lowest OP or selection rank to which an offer was made to recent school leavers including any adjustment factors that may have been applied.

**Unadjusted**
The lowest ‘raw’ OP or selection rank to which an offer was made to recent school leavers, excluding any adjustment factors.

### DURATION
The time it takes to complete a program when it is studied full-time.

**Full time**
The standard study load is eight units per semester. Full-time study is 75 per cent or more of the standard study load (i.e. six units per semester for most programs).

**Part time**
Part-time study load is less than 75 per cent of the standard study load (i.e. less than six units per semester for most programs).

### ADMISSION REQUIREMENTS
Some programs require you to have completed specific subjects (or their equivalent) at school. Some also have additional requirements.

<table>
<thead>
<tr>
<th>QTAC CODE</th>
<th>MINIMUM SELECTION THRESHOLD 2020</th>
<th>LOWEST OP / RANK TO RECEIVE AN OFFER 2020</th>
<th>DURATION</th>
<th>START SEMESTER</th>
<th>CAMPUS</th>
<th>HONOURS</th>
<th>DUAL PROGRAM AVAILABLE</th>
<th>ADMISSION REQUIREMENTS</th>
</tr>
</thead>
<tbody>
<tr>
<td>733001</td>
<td>7 / 87 / 31 / 86.95</td>
<td>7 / 88</td>
<td>3 years full-time (or part-time equivalent)</td>
<td>1, 2</td>
<td>St Lucia</td>
<td>Additional year of study</td>
<td>Arts, Business Management, Commerce, Engineering (Honours), Mathematics, Science</td>
<td>Queensland Year 12 or equivalent English, Mathematical Methods</td>
</tr>
</tbody>
</table>

Sample information only.
Study options

UQ offers more than 80 exciting undergraduate programs and 60 dual programs to help build your dream career. For more details, check out our range of publications, or go to future-students.uq.edu.au

Arts, Humanities, Social Sciences and Education
- Advanced Humanities (Honours)
- Arts
- Communication
- Criminology and Criminal Justice (Honours)
- Education (Primary)
- Education (Secondary)
- International Studies
- Journalism
- Music (Honours)
- Politics, Philosophy and Economics (Honours)
- Social Science

Health, Behavioural Sciences and Medicine
- Biomedical Science
- Clinical Exercise Physiology
- Dental Science
- Exercise and Nutrition Sciences
- Exercise and Sport Sciences
- Health Sciences
- Health, Sport and Physical Education
- Medicine
- Midwifery
- Nursing
- Occupational Therapy
- Pharmacy
- Physiotherapy
- Psychological Science
- Social Work
- Speech Pathology

Business, Economics and Law
- Advanced Business (Honours)
- Advanced Finance and Economics (Honours)
- Business Management
- Commerce
- Economics
- International Hotel and Tourism Management
- Laws (Honours)
- Politics, Philosophy and Economics (Honours)

Science, Mathematics, Agriculture and Environment
- Advanced Science (Honours)
- Agribusiness
- Agribusiness Management
- Agricultural Science
- Biomedical Science
- Biotechnology (Honours)
- Environmental Management (Honours)
- Environmental Science (Honours)
- Equine Science
- Mathematics
- Occupational Health and Safety Science (Honours)
- Science
- Veterinary Science (Honours)
- Veterinary Technology
- Wildlife Science

Engineering, Computing, Architecture and Planning
- Architectural Design
- Chemical Engineering
- Civil Engineering
- Computer Science
- Electrical Engineering
- Information Technology
- Mechanical Engineering
- Mechatronics Engineering
- Mining Engineering
- Regional and Town Planning
- Software Engineering

Central guides
- Australian Undergraduate (pictured left)
- International Undergraduate and Postgraduate (international students can visit future-students.uq.edu.au/publications-and-forms/international to access the latest international student guides)

Copies of these publications are available through UQ Admissions.

+61 7 3365 2203
admissions@uq.edu.au
future-students.uq.edu.au
Have a question about programs in this Guide?

Faculty of Engineering, Architecture and Information Technology
+61 7 3365 4777
enquiries@eait.uq.edu.au
eait.uq.edu.au

Faculty of Science
+61 7 3365 1888
enquirie@science.uq.edu.au
science.uq.edu.au

Have a question about living and studying at UQ?

Contact the Future Students Contact Centre
+61 7 3346 9872
ask@uq.edu.au
future-students.uq.edu.au

Have a question about entry requirements and admission to UQ?

Contact UQ Admissions
+61 7 3365 2203
admissions@uq.edu.au
asd.uq.edu.au/admissions

Key dates

Tertiary Studies Expo (TSXPO)
RNA Showgrounds
Saturday and Sunday 18–19 July 2020

UQ Open Day 2020
St Lucia campus Sunday 2 August 2020
Gatton campus Sunday 16 August 2020

Semester 1, 2021
Classes commence
Monday 22 February 2021

CRICOS Provider 00025B

Disclaimer

The information in this Guide is accurate as at January 2020. However, the University has many programs and courses, and refreshes and updates its programs and course offerings from time to time and without notice. It is your responsibility to visit future-students.uq.edu.au for up-to-date information.

All costs and fees quoted in this publication are in Australian dollars (A$).