Engineering and Computing
Architecture and Planning
3 Campuses
6 Faculties

53,600+ students from more than 135 countries

#1 in Queensland for graduate employability

QS Graduate Employability Rankings 2019
387 Programs

More national teaching awards than any other Australian university

State-of-the-art facilities
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 celebrates 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, for 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).

Why study with us?
Bachelor of Engineering (Honours) students testing a Hybrid Vehicle as part of the Mechanical Systems Design course.
Your Engineering degree

Engineers are essential. They are the designers of the functional world. Engineers tackle society’s greatest challenges - now and into the future.

At UQ, you’ll gain access to industry leaders and global opportunities. You’ll be empowered with adaptive skills and transferable capabilities to go further in every possible future.

Your journey as a student engineer

- **Flexible First Year**
- **Discipline specific courses**
- **Alternate entry point for the integrated program**
- **Graduate from the BE (Hons)**
- **Graduate from the BE (Hons) / ME**

Start your engineering studies with our flexible first year

<table>
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<tr>
<th>Entry</th>
<th>Year 1</th>
<th>Year 2</th>
<th>Year 3</th>
<th>Year 4</th>
<th>Year 5</th>
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<tr>
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<td>Graduate from the BE (Hons)</td>
<td>Graduate from the BE (Hons) / ME</td>
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</table>

- You can join over 220 clubs and societies at UQ
- Depending on your discipline, go on site visits as part of your major
- **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.

Ranked

1st in Queensland for Engineering and Technology*

1st in Australia for Chemical Engineering*

The best university in the world for Mining and Mineral Engineering

*QS World University Rankings by Subject, 2018

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
Engineers have been around since the very beginning of human civilisation, and have produced much of the technology, products and infrastructure we take for granted. Today, engineering offers more career options than any other field. From the established civil and mechanical areas to the emerging environmental and biomedical fields, each discipline will lead to exciting careers solving both global and local challenges.

Some of the big issues confronting us are climate change, diminishing supplies of water and mineral resources, and the persistent problems of poverty and disease. As innovative problem-solvers and inventors, engineers will be called on to develop new sources of power to reduce our reliance on fossil fuels, design low-cost wastewater treatment and water distribution systems for rapidly growing cities and build ‘scaffolds’ to enable human tissue growth at a cellular level.

The engineers of our lives will be responsible for almost all of the future’s exciting and innovative technology and UQ Engineering is equipping the next generation of engineers with the power to enrich the lives in our community.

Why wait to immerse yourself in the rewards of engineering?
Your engineering first year

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 majors 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 majors 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 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, as well as assistance for international students commencing study in Australia, is also available. 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. Make new friends instantly on practical projects where you’ll 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, attending field trips, completing internships and projects.

MAJORS
The UQ Bachelor of Engineering (Honours) program offers 18 majors in engineering, along with a number of minors that can be added to broaden your area of specialty:

Bachelor of Engineering (Honours) (Chemical Engineering)*
Offered with dual majors in:
- Biological
- Environmental
- Materials
- Metallurgical

Bachelor of Engineering (Honours) (Civil Engineering)
Offered with dual majors in:
- Environmental
- Geotechnical

Bachelor of Engineering (Honours) (Electrical Engineering)
Offered with dual majors in:
- Biomedical
- Computer

Bachelor of Engineering (Honours) (Mechanical Engineering)
Offered with dual majors in:
- Aerospace
- Materials

Bachelor of Engineering (Honours) (Mechatronics Engineering)

Bachelor of Engineering (Honours) (Mining Engineering)
Offered with a dual major in:
- Geotechnical

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

*Minor 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 major, 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.

Help protect the environment through the sustainable management of water, energy and waste.
DUAL MAJORS IN CHEMICAL ENGINEERING

Chemical and Biological
Learn how engineering principles are combined to 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 optimize the bioprocess to manufacture the bioproduct in large-scale. Biotechnologists, work on groundbreaking projects including the development of platform technologies to produce renewable chemicals, fuels, biodegradable plastics, biopharmaceuticals and medical imaging devices.

Chemical and 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 dual major, you will study physical and chemical processing techniques, process modelling, process design and economics, and undertake individual research.

Chemical and 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.

Chemical and 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 can I 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
- Chemical Engineer
  - Entry-level: $49,013 - $91,501
  - Late-career: $76,340 - $330,000
- Chemical Process Engineer
  - Entry-level: $53,594 - $102,291

*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 the civil engineering major, 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 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
DUAL MAJORS IN CIVIL ENGINEERING

Civil and Environmental
Sustainable development is an increasing priority for industries and governments and our graduates have rewarding careers while contributing to global communities.

This dual major 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.

Civil and Geotechnical
UQ is the only university in Queensland to offer specialised study in geotechnical engineering as part of a dual major. 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.

“As a structural engineer, I get to make my mark on our cities with infrastructure that defines the ways our communities connect. I have the technical skills to help address problems resulting from rapid urbanisation, population growth and technological development.
I have the best job in the world. As an engineer, my role is simply to make the world a better place.”

Alice Naughton  
Bachelor of Engineering (Honours) (Civil) / Bachelor of Commerce (Finance)  
Graduate Structural Engineer, AECOM

Where can I 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>Civil Engineer</th>
<th>Geotechnical Engineer</th>
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<tbody>
<tr>
<td>Entry-level: $50,358 - $87,947</td>
<td>Entry-level: $55,625 - $94,947</td>
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<tr>
<td>Late-career: $72,279 - $184,760</td>
<td>Experienced: $86,099 - $177,592</td>
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<tr>
<th>Environmental Engineer</th>
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<tbody>
<tr>
<td>Entry-level: $49,350 - $84,227</td>
<td>Experienced: $67,868 - $134,815</td>
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*Salaries according to Payscale.com 2019. All figures are in Australian dollars.
Within the electrical engineering major, 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, such as 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.

Across the globe, more than eight billion scans have been completed using world-leading magnetic resonance imaging technology developed at UQ.
Electrical and 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 electrical and biomedical dual major, 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 medical imaging systems (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.

Electrical and 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, white goods, 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 can I 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

<table>
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<tr>
<th></th>
<th>Entry-level: $50,683 - $98,441</th>
<th>Late-career: $80,178 - $164,861</th>
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<tbody>
<tr>
<td>Electrical Engineer</td>
<td>Biomedical Engineer</td>
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<tr>
<td>Entry-level: $50,358 - $87,947</td>
<td>Mid-career: $49,508 - $113,235</td>
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</table>

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

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
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.

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.
DUAL MAJORS IN MECHANICAL ENGINEERING

Mechanical and 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?

During the mechanical and aerospace dual major, 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.

Mechanical and Materials

UQ is the only university in Queensland to offer this highly specialised dual 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.

Brock Little

Bachelor of Engineering (Honours) (Mechanical and Aerospace) / Master of Engineering

Aerospace Engineer, HeliMods, Sunshine Coast

“I’ve always loved aerospace, particularly aeroplanes, so this degree was a natural choice for me.

What I didn’t realise was there are so many different career opportunities within the industry. It’s not just pilots, astronauts and engineers. It’s operations staff, air traffic control, business, law – you name it. The industry you may want to work in may have so many careers within it that it will still be hard to choose!

My best memory of UQ was the UQ Abroad program, which gave me the opportunity to travel overseas for study whilst still fulfilling my UQ degree requirements. Many employers also love seeing that you have global experience, so I’d definitely recommend taking advantage of these global opportunities whilst studying at UQ!”

Where can I 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: $57,058 - $99,314
Experienced: $76,916 - $139,767

Mechanical Engineer
Entry-level: $49,939 - $89,633
Late-career: $96,699 - $164,821

*Salaries according to Payscale.com 2019. All figures are in Australian dollars.
Bachelor of
Engineering (Honours)
Mechatronics Engineering

Are you ready for one of the most hands-on mechatronics degrees in Australia? Do you want to learn how to retrieve a submarine from the ocean floor or build an autonomous drone?

Combine robotics with computer science and take artificial intelligence to the next level.

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<tr>
<th>QTAC CODE</th>
<th>UQ CODE</th>
<th>MINIMUM SELECTION THRESHOLD 2019</th>
<th>OP / BANK / IB / ATAR</th>
<th>LOWEST OP / RANK TO RECEIVE AN OFFER 2019</th>
<th>DURATION</th>
<th>START SEMESTER</th>
<th>CAMPUS</th>
<th>HONOURS</th>
<th>DUAL PROGRAM AVAILABLE</th>
<th>ADMISSION REQUIREMENTS</th>
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<tr>
<td>717001</td>
<td>2542</td>
<td>8*/86*/51*/85.95*</td>
<td>8/84</td>
<td>9 / 82</td>
<td>4 years full-time (or part-time equivalent)</td>
<td>1, 2</td>
<td>St Lucia</td>
<td>Part of standard program, awarded based on weighted cumulative grade point average</td>
<td>Computer Science, Information Technology, Mathematics, Science</td>
<td>Queensland Year 12 or equivalent English, Mathematics B, plus one of Physics or Chemistry</td>
</tr>
</tbody>
</table>

* Not all applicants on this OP/Rank gained entry; finer discrimination within the OP/Rank was used.
1 Minimum (adjusted) selection threshold 2019 is the minimum score that was considered for an offer of a place to all applicants.
2 Lowest OP/Rank to receive an offer refers to all recent secondary students who were offered a place in 2019.
What you will study
This major 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.

Where can I work?
Mechatronics 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: $55,042 - $92,886
Experienced: $78,429 - $138,985

Design Engineer
Entry-level: $51,346 - $85,629
Late-career: $73,577 - $118,626

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

UQ researcher, Dr Pauline Pounds has developed drone technology that provides safety information on climatic conditions to firefighters, which will help save lives.
Bachelor of

Engineering (Honours)

Mining Engineering

Are you seeking a world-class mining education? Do you want to be part of a multi-million dollar industry that creates wealth and contributes significantly to Australia’s standard of living?

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 Intel chips 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 mining major, ranked in the top 10 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.

Outstanding employment rates:

92.1% of Mining Engineers are employed

Australian Institute of Mining and Metallurgy

*2018 QS World University Rankings by Subject
DUAL MAJOR IN MINING ENGINEERING

Mining and Geotechnical

This highly specialised degree will place you at the forefront of mining development and provide you with the technical and practical skills to work on projects in Australia and overseas. Geotechnical skills are becoming increasingly important in dynamic environments where mines are going deeper.

Throughout this dual major, you will undertake focused study in soil mechanics, rock mechanics and engineering geology. You will also learn how soil behaves when under load and during excavation, and gain a strong understanding of how the strengths, faults and joints of rocks influence the success or failure of mining operations.

With support from UQ’s industry partners, you’ll learn from experts and exit your degree with the professional knowledge and skills needed to solve multidisciplinary problems involving earth materials.

Graduates usually work with mining and geotechnical consultancies, mining companies, and civil and mining contractors. Many graduates will also establish their own companies as their careers progress.

Mining and geotechnical engineers often work in design, operation, management, research and consulting on projects ranging from roads and excavations through to tunnelling and mining. These engineers are frequently employed by major companies such as Rio Tinto, BHP Billiton and Golder Associates.

Where can I 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

<table>
<thead>
<tr>
<th>Role</th>
<th>Entry-level</th>
<th>Late-career</th>
<th>Experienced</th>
</tr>
</thead>
<tbody>
<tr>
<td>Mining Engineer</td>
<td>$75,444 - $128,372</td>
<td>$122,256 - $252,019</td>
<td>$86,699 - $177,592</td>
</tr>
<tr>
<td>Geotechnical Engineer</td>
<td>$55,625 - $94,947</td>
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*Salaries according to Payscale.com 2019. All figures are in Australian dollars.

“...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

The best university in the world for Mining and Mineral Engineering

Academic Rankings of World Universities 2018
Bachelor of

Engineering (Honours)

Software Engineering

Do you envision a world where lens-free cameras and spray-on screens are a reality?

What you will study

The software engineering major 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.

<table>
<thead>
<tr>
<th>QTAC CODE</th>
<th>UQ CODE</th>
<th>MINIMUM SELECTION THRESHOLD 2019</th>
<th>LOWEST OP / RANK TO RECEIVE AN OFFER 2019</th>
<th>DURATION</th>
<th>START SEMESTER</th>
<th>CAMPUS</th>
<th>HONOURS</th>
<th>DUAL PROGRAM AVAILABLE</th>
<th>ADMISSION REQUIREMENTS</th>
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<tr>
<td>717001</td>
<td>2342</td>
<td>8* / 86* / 51* / 85.95*</td>
<td>8 / 84</td>
<td>4 years full-time (or part-time equivalent)</td>
<td>1, 2</td>
<td>St Lucia</td>
<td>Part of standard program, awarded based on weighted cumulative grade point average</td>
<td>Arts, Business Management, Commerce, Economics, Mathematics, Science</td>
<td>Queensland Year 12 or equivalent English, Mathematics B, plus one of Physics or Chemistry</td>
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</tbody>
</table>

* Not all applicants on this OP/Rank gained entry; finer discrimination within the OP/Rank was used.
† Minimum (adjusted) selection threshold 2019 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 2019.

See 'Program table explained' on page 68
“In my current role, I’m a part of Boeing’s Phantom Works International team – where we get to work on prototyping projects and new technology. My team works in the unmanned systems space. As a software engineer in a fast moving environment, I have been able to work on a variety of tasks including everything from design, development, software testing, and fieldwork.

I always enjoyed maths and science at high school, and I liked creating something new. So, engineering seemed like it would be a good combination of both!”

Chelsea Edmonds
Bachelor of Engineering (Honours) (Software) / Bachelor of Science (Mathematics)
Graduate Software Engineer, Phantom Works - International, Boeing Defense Space & Security

Where can I 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 programmeers, 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

<table>
<thead>
<tr>
<th>Role</th>
<th>Entry-level</th>
<th>Late-career</th>
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</thead>
<tbody>
<tr>
<td>Software Engineer</td>
<td>$49,968 - $91,239</td>
<td>$69,779 - $139,370</td>
</tr>
<tr>
<td>Software Developer</td>
<td>$46,876 - $82,612</td>
<td>$69,531 - $119,075</td>
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</tbody>
</table>

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

In a digital future, the opportunities for software are as limitless as the human imagination.
Alternative pathways
Bachelor of Engineering (Honours)

Didn’t get a high enough OP?

Preferred degree
Bachelor of Engineering (Honours)
Completed Mathematics B, and either Chemistry or Physics in High School but didn’t get the required OP?

Year 1
Bachelor of Science
Take Engineering academic advice in course selection. Achieve a GPA of 4.0 or higher in your first year.

Year 2
Bachelor of Engineering (Honours)
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)

Year 1
Bachelor of Information Technology
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.

Year 2
Bachelor of Engineering (Honours)
Receive up to one year of credit towards the BE (Hons). Undertake core engineering courses in second year before realigning.
Double your opportunities

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

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.

Benefits of dual programs

**Save time**
Graduate with two bachelor's degrees in as little as four years — 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>
<thead>
<tr>
<th>GTAC CODE</th>
<th>DURATION (YEARS)</th>
<th>MINIMUM SELECTION THRESHOLD 2019 OP / RANK / IB / ATAR</th>
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<td>6 / 89</td>
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* Lowest OP/Rank to receive an offer refers to all recent secondary students who were offered a place in 2019.

* OP Guarantee does not apply to these programs.
Bachelor of
Engineering (Honours) /
Master of Engineering

Combine your undergraduate and postgraduate studies together in one unique integrated degree and get your career off to a flying start.

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, research and a semester-long placement 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

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.

MAJORS
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
- Civil and Fire Safety
- Electrical
- Electrical and Biomedical
- Electrical and Computer
- Mechanical
- Mechanical and Aerospace
- Mechanical and Materials
- Mechatronic
- Software

See ‘Program table explained’ on page 68

* Minimum (adjusted) selection threshold 2019 is the minimum score that was considered for an offer of a place to all applicants.

Least OP/Rank to receive an offer refers to all recent secondary students who were offered a place in 2019.
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 major and study courses specific to your career aspirations. There are 15 areas to choose from (refer to the table, left).

Consolidate your study
Consolidate your learning in your chosen major to match your individual career goals. This is also a great time to undertake an exchange semester! uq.edu.au/uqabroad

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

CentraleSupélec
CentraleSupélec (CS)
Multiple Campus locations: Lille, Lyon, Marseille, Nantes and Paris (France)
CS Degree: Master of Science/Engineering
UQ Major: Mechanical, Aerospace, Electrical, Mechatronic Engineering
What our students say about the European Double Degree Pathway

“An amazing experience to broaden your horizons both career-wise and travel-wise. I have made a lot of friends from all over the world. Munich has quite a large international community, you can meet people from almost every country in the world. I have done a lot of traveling, there are many amazing European cities within easy reach of Munich for a day or weekend trip.

I believe this program will really give you a sense of confidence in yourself. It’s not an easy adventure, but well worth it. Many times, I’ve encountered problems in a foreign language that seemed impossible to solve, but I persevered and solved the problem.”

Daniel Clark, Electrical and Computer Engineering (Technical University of Munich, Germany)

“Good friends, plenty of fun, and great industry opportunities.

Because of the contacts I made during my studies, I found a placement in my dream company – Tetra Pak – here in Lund! Every semester I have worked on projects with people from different areas, from catalyst development to polymer production, and cheese manufacturing. This has been invaluable for my employment opportunities in the future. Travelling around Sweden and Denmark is very easy when based in Lund, and I’ve also been able to holiday around Europe and the Middle East, both during semester and the summer.

The courses have been fantastic, with a greater focus on hands-on, self-driven learning in cooperation with partners from industry. This both helped to demonstrate how the theory and skills learned in university are applied in practice, and helped build industry contacts. The teaching staff are universally approachable and helpful, so it’s very easy to ask for help when you get stuck.

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)

“Got for it! There are so many new experiences one can discover through international engagement.

I undertook my thesis placement in Germany at Würth Electronik eiSos. It was a successful placement and now I work here. The company decided to submit my thesis for a patent. It has been approved this year and I officially own a patent in Germany. The highlight of my Double Degree was definitely travelling all over Europe. Germany is so central and surrounding countries are only a few hours away. I’ve learnt so much about different cultures, languages and really admire the characteristics that each individual place exhibits.

Without a doubt, the people I’ve met and the friendships I’ve made from all over the world top it off.

Joanne Wu, Electrical Engineering (Technical University of Munich, Germany)
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.

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.

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 (pictured below) enables you to experience what it feels like to be onsite 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.

UQ Makerspace
UQ Makerspace is a newly developed workshop facility where UQ students and staff can meet, collaborate and create in a friendly and supportive environment. Users will have access to trade and academically qualified staff and the latest industry-grade equipment, from laser cutters to water jets.
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
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 on what engineering is to a number of schools across Queensland.
• Supports female students studying engineering at UQ by providing mentoring and networking opportunities
• 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 in studying engineering and here are just a few of them:

• We have a strong history of female graduates making a difference and changing the world.
• The retention rate for female students studying engineering at UQ has consistently been greater than 90 per cent.
• UQ was the first university to offer a program aimed at increasing the number of women in engineering

The Women in Engineering Program at The University of Queensland provides female engineering students with a sense of community, as well as providing opportunities to build important skills for academic and career success. We offer both female and male students to join us at some networking events and workshops

• 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 2020 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 employers who are committed to the importance of diversity.
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

Part of the Energy Queensland Group
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 majors
- Budding student entrepreneurs can consider the UQ Idea Hub program
- Consider Study Abroad Semester
- Graduate from the Bachelor of CS
- Further your expertise and consider the Master of Data Science

You can join over 220 clubs and societies at UQ

Ranked top 100 in the world in Computer Science

QS World University Rankings by Subject, 2018

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

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 major focuses on the design of computer languages that can be easily used to create programs. In this major, you will study the craft and science of programming, that will enable the construction of effective programming languages as well as correct and reliable software.

Scientific Computing
In this major, 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.

“My interest in innovation and working with the newest technologies spurred my decision to study Computer Science alongside Mathematics at UQ.

Majors such as Machine Learning, Cyber Security and Data Science will be at the forefront of the 21st century economy and will innovate the way we work and view the world.

UQ provides the widest variety of courses and majors, has a fantastic reputation and is a natural fit for a Computer Science degree with its motto to ‘Create Change’.”

Daniel Walton
Bachelor of Computer Science / Bachelor of Mathematics
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

Select one of 5 IT majors
Budding student entrepreneurs can consider the UQ Idea Hub program
Consider Study Abroad Semester
Graduate from the Bachelor of IT
Graduate from the Bachelor of IT (Honours)

Foundation Year
Entry

Year 1
Discipline specific courses

Year 2
Studio based projects

Year 3
Innovation Showcase

Year 4
BlfTech (Honours)

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.

Complete a research project

Gain a degree accredited by the Australian Computer Society, that enables you to work anywhere in the world

You can join over 220 clubs and societies at UQ

83.2% of graduates are in full-time employment
 Computer and Information Systems – Quality indicators for learning and teaching (qilt.edu.au)

Did you know?
The digital technology sector is one of the fastest growing parts of Australia’s economy.
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, 2018
MAJORS IN INFORMATION TECHNOLOGY

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 major 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 major is aimed at students who wish to follow a career in the creation and management of software applications. Courses in this major 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.

Enterprise Information Systems

Enterprise information systems power businesses and organisations. The Enterprise Information Systems major provides you with a strong foundation in designing enterprise-wide and multi-enterprise information systems. You’ll also study a range of business electives. During your studies, you’ll not only learn how to create large, effective and efficient information systems, but also how to incorporate business process and management knowledge into the system’s development in order to maximise the system’s performance.

Software Information Systems

Information systems are integral to almost every business and government organisation. In this major 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. This major is designed for students who wish to pursue a career in developing and managing database-oriented information systems. Learn about cutting-edge approaches to large-scale database design, including systems which span multiple organisations.

Computer Systems and Networks

Distributed computing platforms and communication technologies have a profound impact on the design, development, reliability and performance of computer applications. With the increasing variety of computing devices (including embedded computing devices, sensors, smartphones, laptops and workstations) and multiple networking technologies that connect these devices, there is a growing demand for virtualisation of computing platforms and operating systems to manage this diversity. This major will teach you how software is controlled on one or many computers, including security, networking and operating systems. Courses focus on programming, computer architecture, computer networks, operating systems, distributed computing and systems security, as well as a variety of distributed software applications (internet applications, mobile computing, embedded computing and ubiquitous computing).

“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)
Master of Data Science
Specialist Data Analyst, BHP
Other pathways to a career in computing

At UQ, there are a number of pathways to get you into an exciting career in computing.

BACHELOR OF ENGINEERING (HONOURS)

Why study engineering as a pathway to computing?

If you pursue in-depth studies in the traditional areas of software and hardware, you will find the four-year Bachelor of Engineering (Honours) degree provides a respected qualification for entry into either the IT or engineering professions.

What you will study

The Bachelor of Engineering (Honours) program offers the largest choice of engineering majors in Queensland.

Computing-related majors are listed as follows:

**Software Engineering**
You will study the complexities associated with large-scale, high-quality software: technical construction; size and complexity; cooperation between developers, clients and users; and evolution of software over time to maintain its value.

**Electrical and Computer Engineering**
You will develop skills in electrical engineering, computer engineering and information technology, in conjunction with professional skills.

**Mechatronic Engineering**
This major provides a broad-based education in the basic principles of electrical, mechanical and computer engineering. You can choose from a range of electives covering areas such as engineering analysis and design, engineering mechanics, dynamics and automatic control, signals and communication, electrical hardware and computer software.
Why study Science as a computing option?
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.

What you will study
In the Bachelor of Science you can study:
• A computer science major (single or extended), which provides core computing courses in programming and information systems
• A dual major in computational science. In this major, the emphasis is on science. You select any single major from the Bachelor of Science program and combine it with a number of computational science courses that emphasise the use of computing as a tool to facilitate solving scientific problems.
Isabella Thomas, Bachelor of Engineering (Honours) (Chemical) / Master of Engineering current student, on placement at Queensland Urban Utilities.
EAIT student employability team

Our Student Employability Team collaborates with industry to provide useful information and assistance to help you develop the skills employers are looking for and get you ready for work.

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 students 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 that are tailored to your specific employability needs
- student and industry-led panel evenings
- employer-led information presentations and workshops.

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)

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.
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

- **Start your Architectural Design studies**
  - **Foundation Year**
    - Learn the fundamentals of creative design
    - You can join over 220 clubs and societies at UQ
  - **Year 1**
    - Develop skills in design for local and global contexts
    - Be inspired by unfamiliar places and consider an International Travel Studio
  - **Year 2**
    - Hone your design skills through practice
  - **Year 3**
    - **Year 4**
      - **Year 5**
        - **Graduate from the Master of Architecture**
          - 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

Ranked

- **#1** Queensland Architecture School*
- **50th** in the world for Architecture / Built Environment courses*

*QS World University Rankings by Subject, 2018

Latest design technologies

Collaborative culture

Global focus – Learn locally and globally
Bachelor of Architectural Design

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 multi-cultural 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, 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.

See ‘Program table explained’ on page 68

Minimum (adjusted) selection threshold 2019 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 2019.

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.

Below: The School of Architecture has many flexible and multi-function spaces where Bachelor’s and Master’s students can collaborate, socialise and exhibit their work.
Above: Visitors to the 2018 eMBArch end of year exhibition view student work from the Bachelor of Architectural Design and the Master of Architecture.

Below: Bachelor of Architectural Design, second year student Stuart Whitfield’s proposal for an animal adoption centre and crematorium in Brisbane.
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

“I loved the studio-based learning element of my study at UQ. I met lifelong friends there and we had so much in common that we became pretty much inseparable. I think working together in that creative and practical environment helped us learn to collaborate — like we do in architectural practice — and it sparked a competitive spirit that made us push each other to do the best work we could, and to learn collectively. Intentionally or unintentionally, we lifted each other up, and I think we became much better designers than we would have been had we all studied in isolation.”

Nick Flutter
Designer at Bjarke Ingels Group in New York and Founder of Tabl

“The design ethos at UQ was the biggest attraction for me. I really wanted to be immersed in design and absorb as much as I could. This has been the basis for my growth and progression over many years and has served me well throughout my career. It gave me the tools I need to be able to communicate the key elements of a great design strategy to key players in a very short amount of time — an essential tool in becoming a design leader.”

Madonna Locke
Director Design, Urbis, Sydney

Hot jobs
- Architect
- Architectural technologist
- Interior designer
- Urban designer
- Environmental graphic designer
- 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

What you can do with a Bachelor of Architectural Design
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

- Start your Regional and Town Planning studies
- Work on planning projects with industry partners
- Consider Study Abroad
- Choose your BRTP or BRTP (Honours) program
- Graduate from BRTP
- Graduate from BRTP (Honours)

<table>
<thead>
<tr>
<th>Entry</th>
<th>Year 1</th>
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<th>Year 3</th>
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- You can join over 220 clubs and societies at UQ
- Go on site visits and elective field trips in Australia, Hong Kong and Indonesia
- Undertake an Industry Placement
- Gain a degree accredited by the Planning Institute of Australia and enter the urban planning profession

#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 plan-making, 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.

UQ's Regional and Town Planning is accredited by the Planning Institute of Australia (PIA)

For more information

future-students.uq.edu.au
planner.science.uq.edu.au
“The university opens doors to opportunities you may never have expected. One of these 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 recognized 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, increase 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 will be encouraged to take initiative, extend your problem-solving skills and apply ideas – all while remaining flexible, resourceful and creative.

With access to a growing 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 the skills to look at problems from a different perspective, learn about design thinking, be creative and progress projects to the prototype stage, get ready for market testing and validation. Have access to globally renowned industry mentors and 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: San Francisco, Tel Aviv, Singapore and Shanghai.

ideahub.uq.edu.au

**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 is the launch of a business, an app or a social enterprise.

turnyourideainto.com

entrepreneurship.uq.edu.au

Turn your idea into something big

Venture ahead with UQ’s entrepreneurial community.
Undergraduate courses
Do you have big ambitions for a career as an entrepreneur? UQ offers a number of undergraduate courses in entrepreneurship and innovation through various programs, such as Creativity for Innovation and Design Thinking, Marketing for Social Change, and Management of Intellectual Property.
future-students.uq.edu.au/study

Free online masterclasses
Create change with free online learning from UQ. Innovation, entrepreneurship and advocacy are essential skills for any graduate, which is why UQ offers three free masterclasses that shine a spotlight on the journeys of proven change-makers.
masterclass.create-change.uq.edu.au

Leading researchers
We don’t just teach the latest research, we create 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.
research.uq.edu.au

Sports innovation
The HYPE UQ Global Sports Innovation Accelerator, developed by the HYPE Foundation, is a global startup accelerator for sports-specific programs. Startups can access global sportstech mentors and investors, sports brands and international clubs. UQ is the exclusive Australian accelerator and one of only four international organisations to host the global initiative.
entrepreneurship.uq.edu.au/hype-spin

ilab
To take ideas to the next level, UQ’s ilab provides students with the opportunity to participate in the Germinate PLUS startup accelerator program. The program provides equity-free funding, workshops, one-on-one mentoring from an Entrepreneur in Residence, desk space and access to professional networks.
ilabaccelerator.com

Undergraduate courses
Do you have big ambitions for a career as an entrepreneur? UQ offers a number of undergraduate courses in entrepreneurship and innovation through various programs, such as Creativity for Innovation and Design Thinking, Marketing for Social Change, and Management of Intellectual Property.
future-students.uq.edu.au/study

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research.uq.edu.au

Sports innovation
The HYPE UQ Global Sports Innovation Accelerator, developed by the HYPE Foundation, is a global startup accelerator for sports-specific programs. Startups can access global sportstech mentors and investors, sports brands and international clubs. UQ is the exclusive Australian accelerator and one of only four international organisations to host the global initiative.
entrepreneurship.uq.edu.au/hype-spin

ilab
To take ideas to the next level, UQ’s ilab provides students with the opportunity to participate in the Germinate PLUS startup accelerator program. The program provides equity-free funding, workshops, one-on-one mentoring from an Entrepreneur in Residence, desk space and access to professional networks.
ilabaccelerator.com
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!

Academic

UQ’s Academic Scholarship program is designed to reward the achievements of outstanding school leavers and to identify, support and develop tomorrow’s leaders. If you are a high-achieving student and are completing Year 12 in 2019, or you completed Year 12 in 2018 and are on a gap year, apply for UQ’s Academic Scholarship Program. Up to 150 scholarships, ranging in value from $6000 to $60,000, are offered each year to students with outstanding academic achievements, or a combination of academic achievements, leadership and/or community service achievements.

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. Three main scholarships are offered in partnership with UQ Sport.

UQ Sports Achievement Scholarship
Awarded to outstanding new and continuing students who have demonstrated exceptional ability in their chosen sport.
Award value: up to $8000 for one year.

The Clem Jones Sporting Scholarship
Awarded to students with academic ability, who have the potential to perform at a high level in their chosen sport. Preference will be given to applicants with demonstrated financial need.
Award value: up to $18,000 over three years.

UQ Swimming Scholarship
Established in 2017, this scholarship supports outstanding new students who have demonstrated exceptional ability in swimming, and represent the UQ Swim Club.
Award value: $4500 for one year, plus high-performance coaching.

Elite athlete support
UQ is endorsed by the Australian Sports Commission as an Elite Athlete Friendly University (EAFU). 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/elite-athletes/student-support/scholarships

Equity

UQ supports equitable access to education. We offer many scholarships for students who might not otherwise be able to attend university.

UQ Link Scholarships
Awarded to applicants who have experienced educational disadvantage due to financial hardship.
Award value: up to $9000 over three years. The Aspire Scholarship Schemes provide additional support for UQ Link recipients.

Indigenous Commonwealth Scholarships
Financial support is available to Indigenous students to help with the costs of going to university.
Scholarships.uq.edu.au

Centrelink Student Income Support
Financial assistance is available to students who receive student income support payments through Centrelink (Youth Allowance, ABSTUDY, Austudy).
Award value: variable and determined by Centrelink.

Other scholarships
UQ 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, LGBTIQ bursaries, and career-specific scholarships.
Scholarships.uq.edu.au
“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

Engineering, Computing, Architecture and Planning 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) majoring 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.

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) majoring 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.

Leeanne 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 annum for 4 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>
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<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 mins 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>
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</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 mins between each ferry</td>
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</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 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. future-students.uq.edu.au/apply

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.

We also have a range of publications, including the international undergraduate and postgraduate student guides to help you.

Ask UQ

future-students.uq.edu.au/ask

Advisory sessions

future-students.uq.edu.au/book-advisory-session

Campus tours

future-students.uq.edu.au/campus-tours

International student guides

future-students.uq.edu.au/publications-and-forms

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.

future-students.uq.edu.au/apply/international/tuition-fees

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, tuition fees, general living expenses, return airfares, and Overseas Student Health Cover (OSHC) when you plan your budget.

future-students.uq.edu.au/international/cost-living

UQ has more than 15,400 international students from 135 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.

employability.uq.edu.au/global-experiences

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, health 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.

employability.uq.edu.au/u21

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.

employability.uq.edu.au/global-experiences

38 exchange countries

200 exchange partners

$1.2m+ student funding support for overseas opportunities

75+ short-term programs

1000+ students participating in global experiences
Fees
Fees for 2020 are expected to be available from August 2019.

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

my.uq.edu.au/fees-schedules

It all adds up!

Don’t forget to budget for accommodation, books, study materials and transport.

Insider Guides provides a helpful online Cost of Living Calculator to estimate your weekly, monthly and yearly living costs.

insiderguides.com.au/cost-of-living-calculator
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).

If you’re an Australian or New Zealand citizen, or an Australian permanent resident 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 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 HECS-HELP or SA-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).

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.

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

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, veterinary science</td>
<td>$10,958</td>
</tr>
<tr>
<td>2</td>
<td>Mathematics, statistics, computing, built environment, allied health, other health, science, engineering, surveying, agriculture</td>
<td>$9359</td>
</tr>
<tr>
<td>1</td>
<td>Humanities, behavioural science, social studies, education, foreign languages, visual and performing arts, nursing, clinical psychology</td>
<td>$6566</td>
</tr>
</tbody>
</table>

*2019 figures only, based on a full-time (16 unit) workload; figures indexed annually

Weekly cost of living

<table>
<thead>
<tr>
<th></th>
<th>STUDENT LIVING IN ON-CAMPUS COLLEGE</th>
<th>STUDENT LIVING IN OFF-CAMPUS COMMERCIAL PRIVATE PROVIDER</th>
<th>STUDENT LIVING IN OFF-CAMPUS SHARE HOUSE</th>
</tr>
</thead>
<tbody>
<tr>
<td>Rent</td>
<td>$450–$700</td>
<td>$180–$520</td>
<td>$130–$250</td>
</tr>
<tr>
<td>Utilities – including gas, electricity and water</td>
<td>included in rent</td>
<td>most included in rent – check with individual provider</td>
<td>$10–$20</td>
</tr>
<tr>
<td>Food</td>
<td>included in rent</td>
<td>$100–$125</td>
<td>$100–$125</td>
</tr>
<tr>
<td>Mobile phone</td>
<td>$20–$30</td>
<td>$20–$30</td>
<td>$20–$30</td>
</tr>
<tr>
<td>Internet</td>
<td>included in rent</td>
<td>most included in rent</td>
<td>$5</td>
</tr>
<tr>
<td>Public transport</td>
<td>$10</td>
<td>$20–$35</td>
<td>$20–$35</td>
</tr>
</tbody>
</table>

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 $303 for 2019 – according to whether you’re an internal or external student, and full-time or part-time. The fee is indexed annually.

bit.ly/uq_ssaf

Keeping your costs down

• Investigate the financial support and fee payment options offered by Centrelink.
  humanservices.gov.au

• Explore the scholarships on offer (see page 48).

• Enjoy UQ Union’s free and low-cost entertainment and activities, such as Morning Marmalade and Kampus Kitchen, uqu.com.au

• Get concessions and student discounts at participating retailers and institutions with your UQ student card.
Applying to UQ

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

Choose your program

• Read your options on pages 8–55.
• 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

Apply to study

STEP 1
Choose

STEP 2
Apply

STEP 3
Accept

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, and the entry requirements you need.

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.

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.
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. Plan your timetable and sign on to classes.
5. Pay fees (see page 64).

Prepare for Week 1
• Complete the steps on the Starting at UQ website, or download the UQ Checklist app to get organised. my.uq.edu.au/mobile-apps.
• 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.

Get ready for the ultimate university experience
• 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.

Are you an Aboriginal or Torres Strait Islander student?
Our Aboriginal and Torres Strait Islander Studies Unit can help you with:
• understanding your options
• choosing what to study
• applying for scholarships and entry.
atsis.uq.edu.au
**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.

**HONOURS**
At UQ, honours may be awarded as a one-year bachelor’s honours degree after you have completed a bachelor’s degree, or as a single bachelor’s honours degree typically taking four years of study. Some undergraduate programs allow eligible students to transfer to a bachelor’s honours degree at a defined point in the bachelor’s degree. This box shows whether honours is available with a program.

**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.

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

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### Program Table

<table>
<thead>
<tr>
<th>QTAC CODE</th>
<th>UQ CODE</th>
<th>MINIMUM SELECTION THRESHOLD 2019</th>
<th>LOWEST OP / RANK TO RECEIVE AN OFFER 2019</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>2230</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, Mathematics B</td>
</tr>
</tbody>
</table>

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### 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.

### UQ CODE
A unique identifying number assigned by the University to a program. Visit future-students.uq.edu.au/study and type the UQ code into the search box to find out more details about the programs you are interested in.

### MINIMUM SELECTION THRESHOLD 2019
OP / RANK / IB /ATAR
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.
- **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.

### 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**
- **Unadjusted**

### 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).

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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

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)

Engineering and Computing
- Architectural Design
- Computer Science
- Engineering (Honours)
- Information Technology
- Regional and Town Planning

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

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

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

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 20–21 July 2019

UQ Open Day 2019
St Lucia campus Sunday 4 August 2019
Gatton campus Sunday 18 August 2019

QTAC closing date
For on-time applications
Thursday 26 September 2019
(check qtac.edu.au for details)

Semester 1, 2020
Classes commence
Monday 24 February 2020

CRICOS Provider Number 00025B

Disclaimer
The inclusion in this publication of details of a program or a course creates no obligation on the part of the University to teach it as or when described. The University may discontinue or vary programs and courses at any time without notice. Information in this guide is accurate as at January 2019.

While care has been taken to provide accurate information in this prospectus, it is the responsibility of students to check and confirm the specific details of programs, courses and enrolment.

In the event of any conflict arising from information contained in this publication, the material approved by The University of Queensland Senate shall prevail.

Visit future-students.uq.edu.au for up-to-date program information.

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

Any agreement with this University does not remove the right to take action under Australia’s consumer protection laws.

Australian Consumer Protection
australia.gov.au