2021 Undergraduate Programs
Architectural Design
Computer Science
Design
Engineering (Honours)
Information Technology
Regional and Town Planning

Engineering, Computing, Architecture and Planning
QS Graduate Employability Rankings 2020
#1 in Queensland for graduate employability

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

#1 University in Australia in the prestigious Nature index

More national teaching awards than any other Australian university

State-of-the-art facilities
exciting career in areas such as cyber security,
You'll graduate job-ready to launch into an
demanding issues.
you to develop solutions to society's most
a high quality program which will enable
experience and knowledge to teach you
science, so you can be assured we have the
In 2019, UQ celebrated 50 years of computer
the perfect time to study computing at UQ.
health and communications sectors, now is
increasing in the finance, energy, transport,
As our reliance on computer-based systems
Choose Computing
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 Architecture and Design
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
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).

Getting you employed
is our top priority
UG is the best in Queensland for graduate employability* 
*QS Graduate Employability Rankings, 2020

Work anywhere in the world
Our qualifications are recognised internationally,
allowing graduates to work anywhere in the world

$1 million
worth of scholarships and prizes awarded annually
Your Engineering degree

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

Your journey as a student engineer

Andrew N. Liveris Academy for Innovation and Leadership

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

Mission

Current global challenges require sustained, rapid innovation on a broad scale, and the leadership to ensure implementation to effect societal change.

The Andrew N. Liveris Academy for Innovation and Leadership provides the environment and programs to deliver a pipeline of effective and creative leaders for the digital era with the capacity to contribute to a sustainable future.

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

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

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

Become a Scholar

Scholarship applications are invited from outstanding students with the potential to lead the development solutions to some of the world’s most pressing sustainability challenges, with a mindset geared towards creating a sustainable future.

For information about the Liveris Scholarships and to submit an application, please visit scholarships.uq.edu.au

More information

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

Ranked

1st
in Queensland for Engineering and Technology*

*QS World University Rankings by Subject, 2020

84.4% of current students are positive about their skills development*

*Quality Indicators for Learning and Teaching, 2020

Your Engineering degree

Engineers improve the state of the world, amplify human capability and make people’s lives safer and easier through the construction of roads, buildings and computers.

Engineers Australia
The future of engineering is changing. And so are we.

Over the last 18 months we’ve been busy reimagining the Bachelor of Engineering (Honours) program. We’ve talked with industry, alumni, our advisory boards, recent graduates and current students to ask them what skills future engineering graduates will need? And what will the future of engineering look like for these graduates?

From here, we’ve crafted a new curriculum that will place our graduates at the forefront of engineering in 2024, 2034 and beyond.

New flexible first year.

A big change is to our flexible first year. We’ve reconfigured the curriculum to ensure you’ll think like an engineer from day one. This means, from the very beginning of your degree you’ll be engaging in hands-on learning experiences across all aspects of engineering - you’ll be in the labs and studios designing, building and doing engineering - and we’ve carried this extensive practical experience all the way through your program.

Bachelor of Engineering (Honours)
More study options for greater career opportunities.

Whether it’s about adapting to new trends and innovations, or moving seamlessly across sectors, we’re offering an education that gives you flexibility – no matter what you choose to do.

With a greater selection of majors, we’re preparing you for the jobs of the future. You now have the opportunity to complement your engineering specialisation with a major in one of the new and emerging areas of engineering. You’ll gain technical expertise, and sharpen your critical thinking and research skills to find answers to pressing questions.

Industry has told us that some of the biggest challenges facing graduates in the future is dealing with big data. Our response – we’ve introduced new courses in programming for all students, as well as options to complete a minor in Data Science or Computing.

Industry experiences throughout your degree.

Contact with industry is threaded throughout the curriculum.

From your first semester, you will work on projects designed by professional engineers. Throughout your degree you will be supported by our Student Employability Team who can help you find that all-important graduate role. You will also have access to the latest industry-grade equipment at our makerspace.

Bachelor of Engineering (Honours)

Specialisations

<table>
<thead>
<tr>
<th>Majors</th>
<th>Chemical Engineering</th>
<th>Civil Engineering</th>
<th>Electrical Engineering</th>
<th>Mechanical Engineering</th>
<th>Mechatronic Engineering</th>
<th>Software Engineering</th>
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<tbody>
<tr>
<td>Aerospace</td>
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<tr>
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<td>✓</td>
<td>✓</td>
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<tr>
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<td>✓</td>
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<tr>
<td>Fire Safety</td>
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<tr>
<td>Geotechnical</td>
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<tr>
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<tr>
<td>Materials</td>
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<td></td>
<td></td>
<td></td>
<td>✓</td>
<td>✓</td>
</tr>
<tr>
<td>Metallurgical</td>
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</tr>
<tr>
<td>Mining</td>
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<td></td>
<td>✓</td>
<td>✓</td>
<td></td>
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<tr>
<td>Structural</td>
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<td>Transport</td>
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<tr>
<td>Water &amp; Marine</td>
<td>✓</td>
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</tbody>
</table>

- UQ Innovate - a place where you can collaborate and create in a friendly and supportive environment.
- You’ll work in teams to design and prototype scalable solutions to real engineering problems across all disciplines.
- Whether it is an industry design project creating a process for producing biofuels, or hands-on design, build and test experiences for biomedical applications, we are preparing you for your future - whatever it might be.

By embedding these experiences throughout your degree, when you graduate, you’ll possess a distinct blend of creative and practical abilities. This will prepare you to deliver sustainable solutions that benefit communities all over the world.
Chemical engineers play a critical role in transforming raw materials into useful products such as healthy foods, clean water, metals, medicines and sustainable energy.

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 specialisation 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 needed to transition from university to the workplace.

Top 3 in Australia for Chemical Engineering*

*QS World University Rankings by Subject, 2020

Bioprocess

Bioprocess engineers create processes and products that support the development of a healthy and sustainable world. Bioprocess engineering combines the core principles of chemical engineering and biology for scalable production of medicines, such as vaccines during pandemics, foods, and beverages. The same principles are applied to treating wastewater and converting waste streams into valuable products, such as biofuels or biodegradable plastics. This involves engineering living cells to produce desirable products and designing and optimising processes to manufacture bioproducts at scale to benefit society.

Materials

Materials engineers make new materials and improve existing materials by making them more functional, sustainable and affordable. They also develop strategies for effective reuse and recycling of products, as we work towards a circular economy. You will learn how to design, select, and process materials to make valuable products. Your studies will explore a wide range of applications, from biomaterials and nanomaterials to 3D printing at scale.

Expand your opportunities by studying Chemical engineering with:

Biomedical

Biomedical engineers create materials, devices and processes for better health outcomes. Applications range from nanoparticles for precise delivery of medicines, bioprinted patient-specific tissues and organs, devices to detect and treat illnesses before they impact our health, and the large scale manufacture of immune cells to fight cancer or cardiac cells to treat a broken heart. This involves learning how to apply the critical and deep systems thinking intrinsic to chemical engineering design and processes to one of the most complicated and integrated biological systems we know—the human body.

Environmental

Environmental engineers design sustainable technologies and processes. They apply engineering knowledge to environmental systems. Your studies will explore the challenges and opportunities of designing more sustainable products and processes, and how to evaluate and address trade-offs between environmental, social and economic indicators.

Metallurgical

Metallurgical engineers play a vital role in developing, managing and improving the processes required to transform ore into metals and recycle metals into useful products. With a strong focus on efficiency and sustainability, these engineers are involved in the physical and chemical processing of metals from crushing, extraction and purification through to product development. In this major, you will study the modelling, design, economics of resource industry processes.

What you will become

Environmental engineers

Graduate Environmental Engineer, Queensland Urban Utilities

I graduated with a Bachelor of Engineering (Honours) Chemical Engineering from the University of Queensland. I would like to thank the University for giving me the opportunity to pursue a career in environmental engineering.

I completed my degree through a dual program with the University of Queensland and Griffith University, allowing me to gain broaden skills in the field of environmental engineering. I am currently working as a Graduate Environmental Engineer at Queensland Urban Utilities. I have had the opportunity to work on a variety of projects, including the development of water treatment plants, and I am looking forward to continuing my career in this exciting field.

Graduate Mechanical Engineer, Metro Trains

I graduated with a Bachelor of Engineering (Honours) Chemical Engineering from the University of Queensland. I would like to thank the University for giving me the opportunity to pursue a career in mechanical engineering.

I completed my degree through a dual program with the University of Queensland and Griffith University, allowing me to gain broaden skills in the field of mechanical engineering. I am currently working as a Graduate Mechanical Engineer at Metro Trains. I have had the opportunity to work on a variety of projects, including the development of transport systems, and I am looking forward to continuing my career in this exciting field.

*Lindsey Killer

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

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

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

Lindsey Killer

Bachelor of Engineering (Honours) Chemical Engineering

Graduate Metallurgist, Evolution Mining at Cracow Gold Mine, Queensland

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

““My 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 Engineering

Graduate Chemical Engineer, Queensland Urban Utilities

Hot jobs

Chemical Engineer*

Early-level: $48,000–$77,000

Late-career: $78,000–$309,000

Process Engineer*

Early-level: $51,000–$83,000

Late-career: $82,000–$159,000

Bioprocess Engineer

Entry Level: $89,000

Average: $127,000

Senior Level: $158,000

*Salaries according to Payscale.com 2019.

**Salaryreport.com 2020

All figures are in Australian dollars.
Bachelor of Engineering (Honours)
Civil Engineering

Are you ready to unleash your creative vision and gain the specialised skills you need to design and build a world that is beautiful, functional and sustainable?

What you will study

In civil engineering you will study how to plan, design, construct and maintain infrastructure such as buildings, dams, airports and transport networks. You will also learn how to protect and improve the natural environment while also meeting the changing needs of society.

The civil engineering specialisation enables you to develop technical skills in building materials, the design of structures, hydrology, geotechnical engineering, fire safety and transport systems. This is complemented with an understanding of natural systems and the analysis techniques used to examine how both the built and natural environments perform and adapt to environmental challenges such as climate change and associated shifts in rainfall, wind, flooding and natural disasters as well as future population needs.

With a focus on applying engineering expertise to develop practical solutions, combined with regular interactions with the civil engineering industry and world-class academic staff, you will gain the knowledge, skills and industry links that will enable you to immediately contribute to the engineering profession.

Expand your opportunities by studying Civil engineering with:

Environmental

Civil engineers with a major in environmental engineering enhance the resilience and sustainability of our natural ecosystems and urban environments. This requires integration of technical innovations, design and development with an understanding of natural systems. You will explore how to assess, measure and develop solutions for managing resources such as energy, water, building materials, food and waste in an efficient and cost effective way without harming the environment.

Geotechnical

The understanding and prediction of the behaviour of soil and rock as earth materials is imperative for creating safe, sustainable and economic civil engineering solutions. Geotechnical engineers apply scientific principles and engineering methods for developing civil engineering infrastructure on the surface and within the ground including prediction, mitigation and prevention of geological hazards.

Fire Safety

Fire safety engineers influence various aspects of the built environment – from the design of modern skyscrapers to the materials chosen to fabricate aeroplanes. UQ offers Australia’s only dedicated fire safety engineering program, and this major helps produce graduates who understand how to assess, measure and develop solutions for managing resources such as energy, water, building materials, food and waste in an efficient and cost effective way without harming the environment.

Structural

Structural engineers must constantly evolve to anticipate the materials, environments, and technologies that will shape our future buildings. They use innovative materials and manufacturing methods to design efficient, adaptable, and sustainable building infrastructure. As this infrastructure must be resilient in the face of a changing environment, so structural engineers must also understand the future hazards and risks likely to arise, whether from cyclones, earthquakes, or other natural disasters.

General Civil

This major will develop your fundamental knowledge of all sub-disciplines of civil engineering. This means you will be well placed to solve and manage engineering problems across the natural and built environments, including building design, dams and flood protection systems, analysis and design of earth structures and foundations, transport systems design and analysis, and pollution management.

Transport

Transport engineers work to make our everyday travel smarter and faster. They harness the power of big data analytics to learn more about how people travel around cities, and design new ways to shape their movement to reduce the density and congestion of our transport networks. This expanding information environment is also harnessing by transport engineers to drive future mobility innovations, such as integration of autonomous and electric vehicles, and use of predictive analytics that can identify and prevent crashes.

Mining

Civil engineers with a major in mining engineering look at all phases of mining operations with a focus in geomechanics. From exploration and discovery, through feasibility, development, production, processing and marketing, to final land restoration and rehabilitation. Responsibility for the development and production phases of a mine requires a broad knowledge of all mining operations and skills in leadership and industrial relations.

Water and Marine

Coastal and hydraulic engineers design and protect our urban waterways, hydraulic structures, coasts, and oceans. Advanced monitoring and modelling technologies allow them to predict and mitigate the risks of coastal flooding, land loss, and beach erosion. These same tools allow them to work to restore large areas of coral reef and lead Australia’s efforts in finding promising locations for tidal and wave energy production.

Hot Jobs

<table>
<thead>
<tr>
<th>Role</th>
<th>Salary Range</th>
</tr>
</thead>
<tbody>
<tr>
<td>Civil Engineer</td>
<td>$48,000-$76,000</td>
</tr>
<tr>
<td>Environmental Engineer</td>
<td>$49,000-$70,000</td>
</tr>
<tr>
<td>Geotechnical Engineer</td>
<td>$50,000-$74,000</td>
</tr>
</tbody>
</table>

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

“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
Electrical Engineering

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

What you will study

Within the electrical engineering specialisation, you will learn to design and manage equipment used in industries such as telecommunications, electricity generation, renewable energy and healthcare applications. You will have the opportunity to investigate embedded systems that contribute to almost every sector of society.

These systems include smartphones, electrical power and renewable energy to provide electricity for our daily use, medical imaging systems for improved healthcare, electrical appliances for homes, scientific instruments for laboratories, lasers for reliable high-speed communication, satellite systems for remote sensing of the environment, and reliable energy systems to power all of these.

With much of your coursework being hands-on, you will leave university with highly regarded specialist technical skills. This flexible and transportable degree will open opportunities with major companies across the globe.

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

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

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

Gabriel Tuntomo
Bachelor of Engineering (Electrical)/Bachelor of Commerce
Electrical Engineer, Civil Infrastructure, Arup

Expand your opportunities by studying Electrical engineering with:

Biomedical

Biomedical engineers create materials, devices and processes for better health outcomes. They have revolutionised healthcare for entire populations with the invention of devices and machines such as pacemakers and ultrasounds. In fact, some may say that biomedical engineers are responsible for saving more lives than doctors.

Biomedical engineering combined with electrical engineering connects technology with medicine. This major incorporates all electrical engineering subjects with specialised coursework in the use of electronics in healthcare.

Your studies will include how to design, construct and maintain health-monitoring devices, and diagnostic systems such as magnetic resonance imaging (MRIs). You will explore the fundamentals of medical signal processing, such as how to analyse electroencephalograms (EEGs), and explore how biomedical devices operate. Students also learn how to interpret the electrical signals produced by these devices.

Computer

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

Computer engineers design and manage computer-based systems, including any device that has a computer embedded in it. That is almost every device these days, ranging from smart watches to smart home devices, smart home appliances to network routers and conventional desktop and laptop computers, to the hundreds of computer chips that can be found in modern cars and more that will be found in future self-driving cars.

This major will equip you with the skills and knowledge you need to claim your place within a high-growth industry. During your studies, you will gain skills in digital logic design, computer networks, embedded and desktop operating systems, microcontroller selection and programming, electronics, telecommunications and signal processing

Where you can work

This is a dynamic growth sector, and electrical engineers can access exciting opportunities with major internet, communications and power generation organisations. Many graduates establish their own companies early in their careers or work overseas. Electrical, computer, and biomedical engineers are employed by organisations such as Siemens, Philips, Cisco, Medtronic, Johnson & Johnson and RedMed.

Hot jobs

<table>
<thead>
<tr>
<th>Job Title</th>
<th>Entry-level: $49,000–$76,000</th>
<th>Late-career: $79,000–$166,000</th>
</tr>
</thead>
<tbody>
<tr>
<td>Electrical Engineer</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Biomedical Engineer</td>
<td>$48,000–$71,000</td>
<td>$60,000–$132,000</td>
</tr>
</tbody>
</table>

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

“Electrical engineering was particularly appealing to me as I had a special interest in the power industry. The next few decades will see a profound energy transformation as we begin to utilise more clean energy. With this transition comes more opportunities for innovation and new technologies.

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

Neha Moturi
Bachelor of Engineering (Electrical)
Graduate Electrical Engineer, Renewables Team, AECOM
Expand your opportunities by studying Mechanical engineering with:

**Aerospace**

Aerospace engineering is all about flight, whether that's planes, helicopters or rockets. Mechanical engineers with a major in aerospace engineering design more fuel-efficient aircraft that cut emissions, design the fleets of satellites that power modern GPS technology, and create the next generation of spacecraft for missions to Mars and beyond. You will learn how to design and manufacture aircraft, launch vehicles, satellites, drones, spacecraft and ground support facilities. This dynamic major incorporates industry-based project work to help ensure graduates futureproof their careers through the development of powerful industry connections and professional networks.

**Fire Safety**

Fire Safety involves various aspects of the built environment - from the design of modern skyscrapers to the materials chosen to fabricate aeroplanes. This major develops the design principles required for applying fire safety engineering in the built environment to improve fire and life safety, and implement novel engineering solutions across multiple disciplines and industries.

**Biomedical**

Biomedical engineers create materials, devices and processes for better health outcomes. Working in the biomedical industry, mechanical engineers change lives. They create better, more lifelike artificial limbs to improve quality of life for injured and disabled people. Pacemakers, artificial valves and even robotic surgical assistants are all the work of mechanical engineers, as are the running blades used at Paralympic events.

**Materials**

Materials engineers improve the way we do things. They assess mechanical processes and find ways to make them more efficient, safer, and deliver better quality. This means they directly affect almost every major mechanical industry in the world, from water supply and oil and gas through to pharmaceuticals and food manufacturing. You will learn how to select, process and develop materials to design and make products, explore the impacts of temperature during processing, as well as the relationships between microstructures, mechanical properties, manufacturing and service performance.

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**Where you can work**

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

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

**Hot jobs**

<table>
<thead>
<tr>
<th>Engineering Discipline</th>
<th>Entry-level</th>
<th>Experienced</th>
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</thead>
<tbody>
<tr>
<td>Aerospace Engineer</td>
<td>$55,000–$117,000</td>
<td>$76,000–$151,000</td>
</tr>
<tr>
<td>Mechanical Engineer</td>
<td>$47,000–$75,000</td>
<td>$70,000–$144,000</td>
</tr>
</tbody>
</table>

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

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**Engineering at UQ**

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

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**See Program table explained on page 70**

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**I’d always been interested in STEM fields, but never felt overly passionate about it in high school. After some research, I discovered UQ’s general first year program. I loved the idea of combining innovation and creativity with science, and that I could flexibly sample different discipline areas.**

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

What you will study
This specialisation builds on 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 system to solve a mechatronics task. Previous projects include a mini-rescue system to solve a mechatronics task.

Expand your opportunities by studying Mechatronic engineering with:

**Computer**
Mechatronic engineers with a major in computer engineering design and manage computer-based systems, including any device that has a computer embedded in it. That is almost every device these days, ranging from smart watches to smart home devices, smart home appliances to network routers and conventional desktop and laptop computers, to the hundreds of computer chips that can be found in modern cars and more that will be found in future self-driving cars. This major will equip you with the skills and knowledge you need to claim your place within a high-growth industry. During your studies, you will gain skills in digital logic design, computer networks, embedded and desktop operating systems, microcontroller selection and programming, electronics, telecommunications and signal processing.

**Mining**
Mining is one of the most technologically advanced industries in Australia and the future of the resource sector is automation. In this major, you’ll explore concepts and practical applications in artificial intelligence, signal and system theory and control theory and how this is applied in the resources industry. You’ll learn how to design and manufacture industrial robots and smart machines that are aware of their surroundings and can make informed decisions, leading to safer and more productive jobs.

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

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

**Hot jobs**
**Automation Engineer**
Entry-level: $51,000–$88,000
Experienced: $79,000–$135,000
**Design Engineering Manager**
Entry-level: $57,000–$147,000
Late-career: $104,000–$218,000

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

Where you can work
At UQ, we’re committed to better engineering, for a better tomorrow.

No matter what engineering path you’re set on, we’ll show you how to embrace the challenges of a changing world - in a way that benefits your career, the industry and communities everywhere.

UQ is proudly powered by 100% renewable energy
What you will study

The software engineering specialisation 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. You will also use the principles of computer design, engineering, management, psychology and sociology in small or large multinational companies.

Expand your opportunities by studying

Software engineering with:

Computer

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

Software engineers with a major in computer engineering design and manage computer-based systems, including any device that has a computer embedded in it. That is almost every device these days, ranging from smart watches to smart home devices, smart home appliances to network routers and conventional desktop and laptop computers, to the hundreds of computer chips that can be found in modern cars and more that will be found in future self-driving cars.

This major will equip you with the skills and knowledge you need to claim your place within a high-growth industry. During your studies, you will gain skills in digital logic design, computer networks, embedded and desktop operating systems, microcontroller selection and programming, electronics, telecommunications and signal processing.

Digital Information is everywhere and has the capacity to revolutionise the way that we live.

Where you can work

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

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

Hot jobs

**Software Engineer**

Entry-level: $48,000 - $79,000

Experienced: $72,000 - $152,000

**Software Developer**

Entry-level: $40,000 - $70,000

Late-career: $72,000 - $213,000

*Salaries according to PayScale.com 2019. All figures are in Australian dollars.
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 (for some combinations) – a much shorter time than it would take to study both programs separately.
- **Strike a balance**: Why compromise when you can pursue both your career ambitions and passions? Dual program students appreciate the diversity of topics offered in their two different programs.

<table>
<thead>
<tr>
<th>QTAC CODE</th>
<th>DURATION (YEARS)X</th>
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<tr>
<td>Computer Science / Commerce</td>
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<tr>
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<td>2 / 97 / 35 / 91.10</td>
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<tr>
<td>Computer Science / Master of Data Science</td>
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<td>2 / 97 / 35 / 91.10</td>
<td>2 / 97 / 35 / 91.10</td>
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<tr>
<td>Computer Science / Science</td>
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<tr>
<td>Engineering (Honours) / Arts</td>
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<td>8 / 85</td>
</tr>
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</table>

* Selected dual programs are currently under review, and durations are subject to change. Visit future-students.uq.edu.au for up-to-date information.
* Not all applicants on this OP/Rank gained entry; finer discrimination within the OP/Rank was used.
* Minimum (adjusted) selection threshold 2020 is the minimum score that was considered for an offer of a place to all applicants.
* Lowest OP/Rank to receive an offer refers to all recent secondary students who were offered a place in 2020.

Don’t have the prerequisites?

Preferred degree

Bachelor of Engineering (Honours)

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

Bachelor of Science

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

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)

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

Bachelor of Information Technology

Take Engineering academic advice in course selection. Complete prerequisite courses PHYS1371 or CHEM109. Achieve a GPA of 4.0 or higher in your first year.

Bachelor of Engineering (Honours)

Receive up to one year of credit towards the BE (Hons). Undertake core engineering courses in second year before realigning.
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 and a semester-long placement or research thesis with an industry or research partner. These courses are designed to provide specialist knowledge of the various disciplines and place you closer to the leading edge of technology. Industry needs graduates who can apply new technologies to existing and emerging industries. The master’s courses will give you a clear and demonstrable advantage when applying for jobs that require advanced skills and capabilities.

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

**FIELDS OF STUDY**

The Bachelor of Engineering (Honours) / Master of Engineering Fields of study include:

- Chemical
- Chemical and Biomedical
- Chemical and Bioprocess
- Chemical and Environmental
- Chemical and Materials
- Chemical and Metallurgical
- Civil
- Civil and Environmental
- Electrical
- Electrical and Biomedical
- Electrical and Computer
- Mechanical
- Mechanical and Aerospace
- Mechanical and Materials
- Mechatronic
- Software

**ADMISSION REQUIREMENTS**

For direct entry: Queensland Year 12 (or equivalent) General English subject (Units 3 & 4, C); Mathematical Methods (Units 3 & 4, C); and one of Chemistry or Physics (Units 3 & 4, C).

For internal applications: You must have completed at least 36 units of study (equivalent to one year full-time study) with an appropriate major towards a Bachelor of Engineering (Honours) or BE(Hons) dual degree in a relevant discipline, with a weighted grade point average of at least 5 on a 7-point scale.

**STAC CODE**

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<th>Minimum Selection Threshold 2020</th>
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<td>8 / 94</td>
<td>1.2</td>
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</table>

Part of standard program, assessed based on weighted cumulative grade point average.

**CAMPUS**

- St Lucia

**DURATION**

- 5 years (full-time equivalent)

**WHAT YOU WILL LEARN**

- In the first year, you will study foundation courses introducing you to the leading edge of technology.
- In years 2 and 3, you will consolidate your learning in your chosen study area to match your individual career goals.
- In years 4 and 5, you will undertake a semester-long placement at Volvo.

**Your integrated masters over five years**

<table>
<thead>
<tr>
<th>YEAR</th>
<th>YEAR</th>
<th>YEAR</th>
<th>YEARS</th>
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<tr>
<td>1</td>
<td>2</td>
<td>3</td>
<td>4 &amp; 5</td>
</tr>
</tbody>
</table>

**Flexible first year**

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

**Engineering major**

Choose a study area and undertake courses specific to your career aspirations. There are 16 areas to choose from (refer to the table, left).

**Consolidate your study**

Consolidate your learning in your chosen study area to match your individual career goals.

**Master’s courses / industry placement**

Undertake a semester-long industry or research placement.

**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.

**For Internal Applications**

You must have completed at least 36 units of study (equivalent to one year full-time study) with an appropriate major towards a Bachelor of Engineering (Honours) or BE(Hons) dual degree in a relevant discipline with a weighted grade point average of at least 5 on a 7-point scale.

**For External Applications**

You must have completed a relevant full-time diploma qualification (equivalent to a 3-year degree) with a weighted grade point average of at least 5 on a 7-point scale.

See 'Program table explained' on page 70.

**Full-time (or part-time equivalent)**

For internal application: You must have completed one of Chemistry or Physics (Units 3 & 4, C); Mathematical Methods (Units 3 & 4, C) and General English subject (Units 3 & 4, C). For internal application: You must have completed at least 36 units of study (equivalent to one year full-time study) with an appropriate major towards a Bachelor of Engineering (Honours) or BE(Hons) dual degree in a relevant discipline, with a weighted grade point average of at least 5 on a 7-point scale.

For direct entry: Queensland Year 12 (or equivalent) General English subject (Units 3 & 4, C); Mathematical Methods (Units 3 & 4, C); and one of Chemistry or Physics (Units 3 & 4, C).

**FOR EXTERNAL APPLICANTS**

For direct entry: Queensland Year 12 (or equivalent) General English subject (Units 3 & 4, C); Mathematical Methods (Units 3 & 4, C); and one of Chemistry or Physics (Units 3 & 4, C).

For internal application: You must have completed at least 36 units of study (equivalent to one year full-time study) with an appropriate major towards a Bachelor of Engineering (Honours) or BE(Hons) dual degree in a relevant discipline, with a weighted grade point average of at least 5 on a 7-point scale.
European double degrees

Take your study overseas and get both a UQ and European master’s degree. Unique to UQ, this program is exclusively for students studying the Bachelor of Engineering (Honours)/Master of Engineering and allows you to study at some of the best engineering and technical schools in the world.

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

What our students say about the European Double Degree Pathway
“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. This has been an amazing experience so far and I really feel like I’ve become even more independent because of it.”
Hera Williamson, Bachelor of Engineering (Honours) (Chemical) (Lund University, Sweden)

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

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

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

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

State-of-the-art equipment

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

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

2200 square metres of makerspace

UQ Innovate
UQ Innovate is a newly developed workshop facility where UQ students and staff can meet, collaborate and create in a friendly and supportive environment. You will have access to trade and academically qualified staff and the latest industry-grade equipment, from laser cutters and 3D printers to water jets.

83.3% of current engineering students were happy with facilities and resources*
*Quality Indicators for Learning and Training, 2020

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.

The Andrew N. Liveris Building

The Andrew N. Liveris Building

The Andrew N. Liveris Building
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.

Meet Guneet, a WE Student Leader and a third year Bachelor of Engineering (Honours) student studying electrical and biomedical engineering. In high school, Guneet loved maths, science and creativity subjects so her clear career choice was engineering. With a passion for improving human health and an interest in STEM, Guneet is keen to apply engineering principles and methods to medical problems in order to improve the health-care industry on a global scale. Guneet’s particularly interested in humanitarian engineering and aims to research and develop new devices that cater to under-represented communities and make basic healthcare a reality for all.

Meet all of our student leaders at eait.uq.edu/we-student-leaders.

The UQ Women in Engineering Program:

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

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

• We have a strong history of female graduates making a positive difference and changing the world.
• UQ was the first in Australia to offer a university-led, industry-funded initiative to address the gender disparity in engineering.

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:

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

Monica Hyland (left), Bachelor of Engineering (Honours) (Civil) / Bachelor of Commerce (Finance), and Tierney George, Bachelor of Engineering (Honours) (Civil) / Bachelor of Business Management
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

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.

Ranked top 100 in the world in Computer Science

QS World University Rankings by Subject, 2020

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 our modern society. They are the backbone of our financial systems, medical care, and communications. Considering the widespread use of computers, it’s 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 so well? How can Google Maps load quickly and analyse computer-based systems.

As part of the program, you can specialise in cyber security, data science, machine learning, programming languages, or scientific computing.

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. You will develop strong analytical, logical, and development skills necessary to advance computing, its applications and beyond.

Areas you can specialise in:

Cyber Security

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

Data Science

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

Machine Learning

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

Programming Languages

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

Scientific Computing

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

See Program table explained on page 71.

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</table>

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

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

Other pathways into a career in computing

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

Search ‘Computer Science’ at future-students.uq.edu.au
Your Information Technology degree

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

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

Your journey as an information technology student

Did you know?

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

84.1% of graduates were happy with facilities and resources

Computer and Information Systems: Quality Indicators for Learning and Teaching, 2020
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 information systems, software design and user experience design, 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.

Areas you can specialise in:

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

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

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

Minor: Computer Systems
You can also minor in Computer Systems. This minor gives students a strong background in understanding how software is controlled on one or many computers, including security, networking and operating systems. It is a strongly technical minor, requiring strong conceptual and programming skills.

Kate Meimaris
Bachelor of Information Technology / Bachelor of Arts (French)
Specialist Data Analyst, BHP

User Experience Design study area is for anyone who wants to work in the multi-skilled field of human-centred design. UX designers work across all sectors of ICT, where their combination of people skills, creativity and technical abilities are in demand. Courses in this major focus on design skills and creativity, programming and prototyping in different media. Design skills are consolidated in Design Computing studio courses.

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Bachelor of Information Technology / Bachelor of Arts (French)
Specialist Data Analyst, BHP

User Experience Design study area is for anyone who wants to work in the multi-skilled field of human-centred design. UX designers work across all sectors of ICT, where their combination of people skills, creativity and technical abilities are in demand. Courses in this major focus on design skills and creativity, programming and prototyping in different media. Design skills are consolidated in Design Computing studio courses.

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

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

Minor: Computer Systems
You can also minor in Computer Systems. This minor gives students a strong background in understanding how software is controlled on one or many computers, including security, networking and operating systems. It is a strongly technical minor, requiring strong conceptual and programming skills.
First year engineering students during the Bachelor of Engineering (Honours) Project Day

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

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.

Engineering, Architecture and Information Technology
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 you to develop career management skills for successful employment outcomes.

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

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

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

Your journey as an architectural design student

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

Start your Architectural Design studies

- **Foundation Year**
- **Year 1**
- **Year 2**
- **Year 3**
- **Year 4**
- **Year 5**

- **Entry**
- **Design skills for local and global contexts**
- **Hone your design skills through practice**

Accredited by the Australian Institute of Architects

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

*QS World University Rankings by Subject, 2020

Latest design technologies

Collaborative culture

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

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

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

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

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

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

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

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

COURSE HIGHLIGHTS

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

Left: Bachelor of Architectural Design student Alina Wagner’s Architectural Design ARCH2200: Dogs Qld, Aerial Perspective project.

Right: Handover, the School of Architecture’s graduate exhibition 2019.

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.
THE CABOOSE
West End Urban Cabin

My design responded strongly to my preferred architectural environments. One of my earlier projects was very traditional in style, while the latter was more modern, open and generally a simpler design. Thus, the project within the West End urban design was the softer, more relaxed and the new West design project was more contemporary and open. The project within the West End, the former facade exposed the habitable extension out, while the new design that was more open and modern was the focus. The Caboose project within the same context, however, was a more contemporary design focused on the habitable space. The Caboose project within the West End, the former facade exposed the habitable extension out, while the new design that was more open and modern was the focus. The Caboose project within the same context, however, was a more contemporary design focused on the habitable space.

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 workshops facilities.

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

International Travel Studios

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

An international career

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

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

Mentoring through the Institute of Architects

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

We encourage students to join the Institute and build connections with the architectural community.

What you can do with a Bachelor of Architectural Design

Hot jobs

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

Jobs where your Bachelor of Architectural Design would be useful:

- Design-oriented publishing and media
- Building surveyor
- Construction manager
- Academic
- Conservation professional
- Landscape architect
- Production designer in theatre, film and television
- Town planner
- VFX artist

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

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

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

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

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

Matthew Walton
Architectural Assistant, Rothelowman Architects, Brisbane
Your life in Design

Good design is essential. It starts with identifying a problem and ends with an outcome driven by the desire to meet the needs of the user. When we open our eyes to what users truly want, we create products and services that provide exceptional value. Discover how you can design creative solutions for people and a better world.

Your journey as a design student

Start your Design studies

- Learn the fundamentals of creative design
- Consider Study Abroad semester
- Graduate from the Bachelor of Design
- Graduate with a dual degree

Develop design knowledge and hone your skills through studio-based practice

Year 1

- You can join over 220 clubs and societies at UQ

Year 2

- Jump straight into a dual degree in Engineering or Business

Year 3

- Undertake a dual degree

Year 4

- Gain an accredited degree that enables you to work around the world

Year 5

Discover how you can design creative solutions for people and a better world.
NEW in 2021

Bachelor of Design

This multi-disciplinary program incorporates elements of business, IT, engineering, architecture and the humanities. You will develop a flexible range of skills to succeed in almost any industry - from digital communication or industrial design to spatial and human-centred design.

What you will study
UQ’s Bachelor of Design offers a new take on design, one where you’ll challenge conventional thinking and bring a different mindset to business and societal problems. You’ll graduate with the creativity and knowledge necessary to generate and design ideas for a better, more sustainable world.

You can specialise in one or two majors that align with your preferred career pathway. Choose from Anthropology, Buildings and Environments, Environment and Society, Information Environments, Innovation and Entrepreneurship, and Media and Digital Cultures.

Areas you can specialise in:

Anthropology

Designing anything is a social process and anthropology is the study of humans, our societies and cultures in all their complexities. Good design requires us to think about how people will engage with and relate to the envisioned product, service or practice. In this major, you’ll develop skills that transfer across multiple industries with a focus on understanding people you’re designing for and their future needs.

Buildings and Environments

The Buildings and Environments major places particular emphasis on the role designers play in shaping how the world works. You will explore both building and planning including sustainability and conservation, transport and infrastructure, architecture and built environment, and the economic and social aspects of development.

Environment and Society

Explore the interconnections between people and the environment. Learn how human-led processes and design outcomes shape our ability to respond to pressing environmental problems, including climate change, bushfires, food insecurity, waste and biodiversity loss. Drawing from many disciplines, including sociology, anthropology, planning, philosophy and economics, this major covers global issues including social and environmental injustice, environmental racism and violence, the politics of conflict, and activism and social change.

Information Environments

Learn how to use code and data to design human-centred technology that is fit for purpose. You’ll explore the design and construction of the technologies and systems that society depends on for crucial functions such as commerce, entertainment and communications, and develop a deeper understanding of the interconnected systems and devices that make worldwide communication possible.

Innovation and Entrepreneurship

Learn how to take a new idea to market by building a new business from the ground up. You’ll first be introduced to basic principles innovation and entrepreneurship, including the entrepreneurial mindset and process. Then you’ll apply this knowledge in practical courses on digital innovation, social entrepreneurship and growth strategies, as well as technology and innovation management. Through leadership development, you’ll become a resourceful, creative and resilient innovation leader who delivers sustainable commercial and social value. Further extending your skill set, you’ll engage directly in a short placement or consulting project in a startup or commercial partner project.

Media and Digital Cultures

Examine the cultural aspects of digital technologies and how they influence the design, use and impact of contemporary media in our everyday lives. You’ll engage with course components that examine culture as art, popular culture, social media and the cultural diversity of digital media in Australia and across the world. This major is particularly suitable for students pursuing professional ambitions in the digital media industries and user-centred digital design.

CAREERS

As a designer, you’ll possess the expertise and creativity to respond to the complex needs of a contemporary world. Depending on which major you choose, you could pursue a career as an:

• interior designer
• business entrepreneur
• environmental graphic designer
• wayfinding designer
• product designer
• design manager
• furniture designer
• change manager
• magazine editor

“The question we need to ask is where do you want to start your career, the conversation is no longer about a long term view and a fully developed plan for when you’re 50. It’s not about where you will eventually be – it’s about the breadth and diversity of the starting point.”

Kirsti Simpson
Principal, Global Workplace Leader, Hassell

English subject (Units 3 & 4, C)

See Program table explained on page 70

<table>
<thead>
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<th>SPAC CODE</th>
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<th>LOWEST OP/ RANK TO RECEIVE AN OFFER / ADJUSTED</th>
<th>DURATION</th>
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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)
- Discipline-specific courses
- Discipline-specific courses plus Professional Practice and/or honours research
- 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.

Regional and Town Planning students in UQ’s Planning Studio
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 lectures are experts in planning theory and practice, and collaborate with guest lecturers from industry to give you access to case studies from the professional sector. You will gain knowledge and practical skills, and undertake industry-focused planning projects in each year of your studies. In your fourth year of study, you can choose to focus on industry or undertake a research project (honours) or, if qualified, you can undertake both. You will receive advice during the third year of your program as to which of these options is most appropriate based on your areas of interest and your academic performance during the first three years of the program.

Placements and practical experience
Throughout the program you will undertake real-life planning projects. These projects expose you to planning-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.

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

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

“The university opens doors to opportunities you may never have expected. One of the best experiences during my time at UQ was taking part in a summer semester course in Vietnam. It was the most exciting and enriching learning experience of my life to be able to study at a Vietnamese university and experience the culture while working toward my degree. The real life experiences combined with my fieldwork go far beyond what is achieved only in a lecture theatre.”

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

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

Nicholas Nalder
Bachelor of Regional and Town Planning,

Where can I work?
You will be entering a dynamic industry that improves the quality of life for people in cities and regions. As a UQ graduate, employers will seek your ability to make environmentally, socially and economically sustainable decisions. You will be employed in a variety of roles in the public and private sectors, including:
- statutory or strategic planning
- regional development
- urban design
- environmental management and monitoring
- technological 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.

UQ’s Regional and Town Planning is accredited by the Planning Institute of Australia (PIA)
Whatever your ambitions – to be a leader, start a business, enhance your employability or contribute to a social enterprise – UQ’s suite of entrepreneurship programs will support you to prepare for the future of work and reach your full potential.

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

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

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

ventures.uq.edu.au/startup-academy

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

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

ventures.uq.edu.au/idea-hub

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

ventures.uq.edu.au/ilab

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

ventures.uq.edu.au/study

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

ventures.uq.edu.au/resources

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

research.uq.edu.au

Turn your idea into something big
Venture ahead with UQ’s entrepreneurial community.
University-wide scholarships

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

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

Keep an eye out for upcoming scholarships related to your study area. There are also scholarships to help with studying abroad, assistance for regional and rural students, and career-specific scholarships.

If you are completing Year 12 in 2021, or you completed Year 12 in 2019 and are on a gap year, you may be eligible to apply for a scholarship.

Sporting

Agility Applications Regional QLD ICT Scholarship
To encourage and support first- and second-year students from regional areas to pursue a Bachelor of Computer Science, Bachelor of Information Technology or Bachelor of Engineering (Honours) in electrical and computer software.
Award value: $8000 for one year.

Alumni Advantage Scholarship in Electrical Engineering
To support first-year students undertaking the Bachelor of Engineering (Honours) program (including a dual program) in the field of electrical engineering or software 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.

Alumni Advantage Scholarship in Computer Science
To encourage and support first-year students undertaking a Bachelor of Computer Science, 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.

Engineering, Computing, Architecture scholarships

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

Liversis Academy Undergraduate Scholarship
The Liversis Undergraduate Scholarship was established in 2019 by global business leader Andrew Livers and his wife Paula Livers, who generously donated $13.5 million to the University of Queensland to help establish the Andrew N. Liversis Academy for Innovation and Leadership in the University’s Faculty of Engineering, Architecture and Information Technology. The Liversis Academy aspires to build a generation of effective and inspiring leaders with a mindset geared towards creating a sustainable future. The Liversis Undergraduate scholarship is maintained by the income generated from an endowed fund.

The purpose of the scholarship is to encourage and support outstanding students in the Bachelor of Computer Science, the Bachelor of Engineering (Honours) or an engineering integrated program, the Bachelor of Information Technology, the Bachelor of Science, the Bachelor of Advanced Science (Honours), the Bachelor of Mathematics or a dual program including one of these programs at The University of Queensland, who have the potential to lead solutions to some of the world’s most pressing sustainability challenges.
Award value: $10,000 per year for up to six years.

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

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

University scholarships.uq.edu.au

200+ more to choose from
UQ’s generous industry partners and private donors contribute to bring you a range of scholarships with varied criteria.

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.

The impact that scholarships have on students is overwhelmingly positive and I can’t be thankful enough for the support I have been offered. The opportunities they have provided me have completely transformed by university experience and enriched it with invaluable academic and cultural experiences. Knowing that someone else believes in my potential and has invested in my future has strengthened my dedication to my studies. I hope that one day I too will be in a position where I can support students to pursue their dreams.”

Anastasia Laczko
Bachelor of Engineering (Honours) (Mechatronics) / Bachelor of Information Technology (Software Design), Current Student
UQ Scholarship recipient
Getting here

Our campuses are easy to access using public transport.

Cycling and walking

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

Travel options to UQ campuses

<table>
<thead>
<tr>
<th>UQ ST LUCIA</th>
<th>UQ-GATTON</th>
<th>UQ HERSTON</th>
</tr>
</thead>
<tbody>
<tr>
<td>6km from the CBD</td>
<td>6km 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>30 minutes from Toowoomba</td>
</tr>
<tr>
<td>3+ train stations within 4km</td>
<td>2 minutes into Northern Busway from the CBD</td>
<td></td>
</tr>
<tr>
<td>15 minutes by each ferry</td>
<td>Rail-bus service runs between Brisbane and Gatton</td>
<td>2km</td>
</tr>
</tbody>
</table>

Getting here

- Download the MyTranslink app to plan your journey to UQ on public transport. Concessions may be available. translink.com.au
- Download the UQnav app or view our interactive, searchable maps to help you navigate our campuses. uq.edu.au/uqnav
- Download the CellOPark app to make parking at UQ easier. Note that parking at UQ St Lucia and UQ Herston is extremely limited. View fees and charges for parking. campuses.uq.edu.au/parking

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).

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, ensure 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

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

Tuition fees

As an international student, you will pay tuition fees, 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 allows them to study full-time on campus. Please consider expenses such as visa and medical (pre-departure) fees, general living expenses, return airfares, and Overseas Student Health Cover (OSHC) when you plan your budget.

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

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

While a lot of information in this guide is relevant to you, certain key information may be different for international students.
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 internship, 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, travel insurance and living costs.

Short-term experiences

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

Universitas 21 student experiences

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

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

180 exchange partners

$2m student funding support for overseas opportunities

100+ short-term programs

1500+ students participating in global experiences
Applying to UQ

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

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

### Fees and costs
**Course fees and student contributions**
Most undergraduate places for domestic students at UQ are funded partly by the Australian Government (Commonwealth support) and partly by you (student contribution).

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

However, indicative annual fees are listed with each program on our Future Students website to help you plan your budget. If you’re an Australian or New Zealand citizen, or an Australian permanent humanitarian visa holder and have a Commonwealth-supported place, you may also qualify for the Higher Education Loan Program (HELP) to defer payment of your student contribution and Student Services and Amenities Fee (SSAF). You will need to apply for a tax file number at ato.gov.au, if you don’t already have one, in order to obtain a HELP loan. International students pay full tuition fees. If you have a Commonwealth-supported place, your student contribution amount depends on the fee band level of the courses you choose (see table at above right).

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**Fees and costs**

- **Course fees and student contributions**
- **Commonwealth-supported fee bands**

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**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>1</td>
<td>Humanities, behavioural science, social studies, education, foreign languages, visual and performing arts, nursing, clinical psychology</td>
<td>$6684</td>
</tr>
<tr>
<td>2</td>
<td>Mathematics, statistics, computing, built environment, allied health, other health, science, engineering, surveying, agriculture</td>
<td>$9527</td>
</tr>
<tr>
<td>3</td>
<td>Law, accounting, administration, economics, commerce, dentistry, medicine, veterinary science</td>
<td>$1035</td>
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</table>

#### Monthly cost of living

<table>
<thead>
<tr>
<th>STUDENT LIVING IN-OFF-CAMPUS COLLEGE</th>
<th>STUDENT LIVING OFF-CAMPUS / STUDENT ACCOMMODATION</th>
</tr>
</thead>
<tbody>
<tr>
<td>Cost</td>
<td>Cost</td>
</tr>
<tr>
<td>Food</td>
<td>Food</td>
</tr>
<tr>
<td>$250–$400</td>
<td>$250–$450</td>
</tr>
<tr>
<td>Utilities (gas, electricity, water)</td>
<td>Utilities (gas, electricity, water)</td>
</tr>
<tr>
<td>$80–$150</td>
<td>$80–$150</td>
</tr>
<tr>
<td>Mobile phone / internet</td>
<td>Mobile phone / internet</td>
</tr>
<tr>
<td>$40</td>
<td>$40</td>
</tr>
<tr>
<td>Public transport</td>
<td>Public transport</td>
</tr>
<tr>
<td>$50–$100</td>
<td>$50–$100</td>
</tr>
<tr>
<td>TOTAL</td>
<td>TOTAL</td>
</tr>
<tr>
<td>$2120–$3360</td>
<td>$1080–$1775</td>
</tr>
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</tr>
</tbody>
</table>

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

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

HONOURS
All UQ honours may be awarded as a three-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.

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.

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

ADJUSTMENT FACTORS
The minimum (adjusted) selection threshold is the lowest OP or selection rank to which an offer was made to recent school leavers including any adjustment factors that may have been applied. Unadjusted: The lowest OP or selection rank to which an offer was made to recent school leavers excluding any adjustment factors.

MINIMUM SELECTION THRESHOLD 2019
The minimum adjusted selection threshold is the minimum score that was considered for an offer of a place to all applicants.

ADJUSTMENT FACTORS
For your convenience, we provide an indication of the adjustment factors that may apply to your UQ application based on your OP, IB or ATAR. UQ applies a range of adjustment factors to help build your dream career. For more details, check out our range of publications, or go to future-students.uq.edu.au

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

DUAL PROGRAM
Two UQ degree programs undertaken at the same time (sometimes known as dual/parallel/doubling 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 equivalents at school. Some also have additional requirements.

Courses and programs offered

Art, 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 (Honours)
Law (Honours)
Politics
Philosophy and Economics (Honours)

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

Science, Mathematics, Agriculture and Environment
Advanced Science (Honours)
Agriscience
Agriscience Business
Agricultural Science
Biomedical Science
Biotechnology (Honours)
Environmental Management (Honours)
Environmental Science (Honours)
Equine Science
Horticulture
Occupational Health and Safety Science (Honours)
Science
Veterinary Science (Honours)
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 3355 2203
admissions@uq.edu.au
future-students.uq.edu.au
Have a question about programs in this Guide?
Faculty of Engineering, Architecture and Information Technology
+61 7 3365 4777
enquiries@eait.uq.edu.au
eait.uq.edu.au

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

Have a question about living and studying at UQ?
Contact the Future Students Contact Centre
+61 7 3346 9872
ask@uq.edu.au
future-students.uq.edu.au

Have a question about entry requirements and admission to UQ?
Contact UQ Admissions
+61 7 3365 2203
admissions@uq.edu.au
as圣地.uq.edu.au/admissions

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

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

Semester 1, 2021
Classes commence
Monday 22 February 2021

CRICOS Provider 00025B

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

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