GATHER KNOWLEDGE IN UNKNOWN TIMES.

• Start your studies online
• Connect with passionate experts
• Local and international placement opportunities
• #1 in Australia for Food Science and Technology, and Biotechnology*

* Academic Ranking of World Universities 2020
3
Campuses
6
Faculties
55,200+
students from more than
140
countries
#1 in Queensland for graduate employability
QS Graduate Employability Rankings 2019
State-of-the-art facilities

More national teaching awards than any other Australian university

#1 University in Australia in the prestigious Nature index

The information in this Guide is accurate at October 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.
Coursework programs

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

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

**MASTER’S (M)**
Master’s programs are suitable for industry professionals and for those looking to further their careers. A master’s qualification is highly regarded by employers worldwide.
The duration of a master’s program is dependent upon prior studies:
- two semesters (1 year) - bachelor degree in a relevant field, as approved by the Executive Dean, incorporating a major research project
- three semesters (1.5 years) – bachelor's degree or equivalent in the same discipline*, as approved by the Executive Dean
- four semesters (2 years) – bachelor’s degree or equivalent in any discipline.

In some cases, the addition of a research thesis component may provide a pathway to higher degree by research programs, including the Master of Philosophy (MPhil) and Doctor of Philosophy (PhD).

**PROFESSIONAL DOCTORATE (PD)**
Doctorates are coursework programs that allow you to return to study to improve your professional practice through the application of research to current problems and issues.

*For more details on the same discipline, visit future-students.uq.edu.au/apply/postgraduate
Global network
Extensive graduate network, strong industry partnerships and many notable alumni.

World-class research
All of UQ’s broad fields of science, across mathematics, physics, chemistry, earth, environment, biology, agriculture and technology, are all above or well-above the world standard (2018 Excellence in Research for Australia (ERA) assessment).

Innovative study facilities
The most modern veterinary science facilities in the southern hemisphere, Australia’s most extensive marine science teaching and research facilities including two island research stations, and over 2200 teaching and research labs - more than any other Australian university.
**Biotechnology**

**Why Biotechnology at UQ?**
UQ is a world leader in biotechnology research and ranks first in Australia and in the top 10 globally (ShanghaiRanking’s Global Ranking of Academic Subjects 2017-2019). We are bringing our expertise to the classroom with internationally recognised programs that range from 6 months to 2 years in duration.

The courses in this program are taught by entrepreneurial scientists who have successfully commercialised their scientific discoveries.

**Sample courses:**
- Advanced Molecular Biology Laboratory
- Biologics
- Drug Discovery and Development
- Immunology and Infectious Diseases
- Food Microbiology and Biotechnology
- Quality Management Systems in Biotechnology
- Biotechnology Applied to Livestock Industries
- Concepts in Bioinformatics
- Commercialisation in Practice Project
- Principles of Entrepreneurship

**Field of study**
The 24 and 32 unit Master and the 32 unit Master Research Extensive programs give you the option to specialise in agricultural biotechnology.

**Agricultural Biotechnology**
Discover how technologies such as gene editing, genomics, proteomics, recombinant DNA technology, bioinformatics, and point-of-care disease diagnostics can provide solutions for global issues of food security, climate change and sustainable development. You will be highly sought after in the food manufacturing, cropping and horticulture sectors; in vaccine development for animal health, plant and livestock genetic improvements and breeding; amongst government bodies in quarantine and agriculture regulation; local, national or international Primary Industries and departments; and agricultural advisory boards.

**What you will study**
These programs will extend your technical expertise and scientific knowledge in areas such as molecular biology, protein technology and bioinformatics. Programs are flexible and can be tailored to your interests and career goals through the selection of specialised courses from a comprehensive array of electives. Through extended laboratory and/or industry experience, you will simultaneously enhance your research and business skills.

**For English language entry requirements**
future-students.uq.edu.au/apply/english-language-proficiency-requirements

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**GRADUATE CERTIFICATE**

**Program code:** 5013
**Location:** St Lucia
**Duration:** 6 months full-time
**Start semester:** 1 (22 Feb, 2021)

1. Your current qualification: Bachelor degree in any field, with UQ or equivalent GPA of 4.5 or above on a 7 point scale; or 2 years of work experience in the same discipline.

**EXTENSIVE (24 UNITS)**

**Program code:** 5599
**Location:** St Lucia
**Duration:** 2 years full-time
**Start semester:** 1 (22 Feb, 2021)

1. Your current qualification: Bachelor degree in any field, with UQ or equivalent GPA of 5 or above on a 7 point scale.

**MASTER RESEARCH EXTENSIVE (24 UNITS)**

**Program code:** 5626
**Location:** St Lucia
**Duration:** 1.5 years full-time
**Start semester:** 1 (22 Feb, 2021)

1. Your current qualification: An approved equivalent Bachelor degree (Honours) in Biotechnology, Science, Bioinformatics, Pharmacy or Engineering; or Bachelor degree in a relevant field incorporating a major research project, or an additional postgraduate qualification incorporating a major research project, or other significant research experience. UQ or equivalent GPA of 5 or above on a 7 point scale.

**Watch a video about UQ’s Biotechnology Program**
youtu.be/tpuemtJ8YxI
Duration: 2 years full-time  
Start semester: 1 (22 Feb, 2021)  
2 (26 Jul, 2021)  
Location: St Lucia  
Program code: 5627  
Your current qualification: An approved equivalent Bachelor degree in Biotechnology, Science, Bioinformatics, Pharmacy, Agriculture, Medicine or Engineering; or Graduate Diploma in Biotechnology. UQ or equivalent GPA of 5 or above on a 7 point scale.

Practical experience  
Take advantage of UQ’s strong links to industry, government and academic institutions in Australia and overseas and participate in internships, placements and international study. Through an independent research project, you will increase your technical and research skills working with the university’s researchers and academics or in an industry setting.

Career opportunities  
With more than 400 biotechnology companies and some 600 medical device companies in Australia alone, you will be highly sought for roles in health, agriculture, diagnostics, the environment, forestry, law and commerce.

You can pursue a career in:  
• agriculture – including plant breeding  
• animal health industries  
• nanotechnology and biosensor applications  
• diagnostic companies  
• food manufacturing industries  
• government agencies  
• legal and consulting companies  
• pharmaceutical companies  
• venture capital companies.

Research extensive option  
If your goal is to work at the ‘coalface’ of biotechnology research, then our research extensive master’s programs will provide you with a head start.

“\nThe Master of Biotechnology program offers a diverse range of fields in Biotechnology and is flexible in nature. UQ’s excellent reputation as a leader in the field of Biotechnology means it is well-connected to research institutes as well as Biotech industries, so you can easily choose the preferred direction for your career.”

Suchita Gera  
Master of Biotechnology

For more information  
future-students.uq.edu.au
Food Science and Technology

Why Food Science and Technology at UQ?
UQ is a key research provider in food science and technology, and is ranked first in Australia and 23rd globally (ShanghaiRanking’s Global Ranking of Academic Subjects 2017-2019). Your teachers are active academics who share the latest knowledge in food safety and quality management, food chemistry and microbiology, food processing, and new food product development with you throughout the program.

You will refine your laboratory skills during practicals and research courses and gain access to the Food Science Innovation Precinct - a world-class teaching, research, training and development unit. Current students are working on projects developing cholesterol-lowering baked goods, ultra-low-fat cheese that tastes like full-fat cheese, fresher milk produced without heat pasteurisation and new Omega-3 and probiotic foods.

What you will study
Through these Food Science and Technology programs, you will gain the latest knowledge in food safety and quality management, food preservation, food chemistry and microbiology, and food processing. You also have the flexibility to tailor your studies to your interests and career goals with specialised electives in business, agriculture and biotechnology. Master’s students can choose to undertake a 14-week industry experience in their final year.

Sample courses:
• Food Safety and Quality Management
• Principles of Food Preservation
• Advanced Functional Foods
• Food Processing Technology
• Food Chemistry and Analysis
• Principles of Food Microbiology
• Advanced Food Material Science
• Professional Experience.

Practical experience
Take advantage of our strong industry links and undertake a 14-week structured industry experience in a production or service enterprise. You will apply your theoretical knowledge to a food-related workplace situation and acquire a detailed understanding of industry operations and gain professional skills which will enhance your career opportunities.

Career opportunities
The food industry is the largest industry in the world and many UQ graduates find careers with national and international food, wine, beer, confectionery and beverage companies, food research laboratories, flavouring manufacturers, educational institutions, and government bodies.

They typically work in areas of quality control, new product development, research and innovation. You could gain employment in supervisory or managerial roles as a:
• food technologist
• food chemist
• food microbiologist
• laboratory supervisor
• production manager
• process and product development manager
• quality control manager.

“UQ’s School of Agriculture and Food Sciences has a good relationship with the food industry not only in Brisbane, but also in other states and offers a 14 week internship as part of the Master of Food Science and Technology curriculum. Where else can you get an internship at Campbell’s, Arnott’s, and other food manufacturing companies that are Australian and global household names?”

Reynaldo Janala
Master of Food Science and Technology

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

For English language entry requirements
future-students.uq.edu.au/apply/english-language-proficiency-requirements
Quantum Technology

Why Quantum Technology at UQ?
UQ has been at the forefront of experimental and theoretical quantum science research since the 1980s, when our scientists proposed the first quantum gate. As the first in Australia, this 18-month program offers a unique mix of fundamental and applied physics to give you the skills to succeed in the rapidly expanding quantum technology sector.

Build on your technical qualifications in engineering, computer science or mathematics and study advanced quantum technology topics such as high-precision sensing, quantum information, communication and computation, noise and error suppression, and quantum error correction.

UQ is a global leader in quantum science, hosting the Australian Centre of Excellence for Engineered Quantum System (EQUS) and a node of the Centre of Excellence for Quantum Computation and Communications Technology (CQC2T). Studying quantum technology will give you access to UQ’s high-performance fabrication and measurement facilities in optical, superconducting, opto-mechanical and ultra-cold atomic systems.

What you will study
Taught by internationally renowned lecturers, the Master of Quantum Technology provides you with comprehensive and in-depth knowledge in advanced quantum technologies. You will build on your technical qualifications as an engineering, computer science or mathematics professional through lectures and hands-on research projects.

You will gain a wide range of skills, including mathematics, programming and engineering and learn how to apply these to solve problems in quantum technology.

Sample courses:
• Quantum Physics
• Condensed Matter Physics: Electronic properties of crystals
• Laser Physics & Quantum Optics
• Quantum Technologies
• Advanced Hamiltonian Dynamics & Chaos
• Advanced Computational Physics
• Advanced Quantum Theory
• Advanced Photonics
• Machine Learning.

Practical experience
This program features three semester-long research projects that immerse you within leading quantum science research laboratories. You will have the opportunity to work with a variety of platforms, including superconducting devices, ultra-cold atoms, micro-mechanical systems, and photonics.

Career opportunities
Significant global investment in quantum technology research and development has created an estimated 20,000 specialist roles, generating a global talent shortage and high earning potential. Your skills will be highly sought after in a diverse range of companies that develop:
• quantum computing
• quantum information processors
• new ultra-high precision sensing solutions
• quantum computers using a photonic approach
• quantum-safe network encryption solutions
• new algorithms for quantum computing with applications for computational chemistry and machine learning.

This program provides you with a pathway to PHD study in quantum science.

For English language entry requirements
future-students.uq.edu.au/apply/english-language-proficiency-requirements

Watch a video about UQ’s Master of Quantum Technology
youtu.be/D7lohl4LroOM

For more information
future-students.uq.edu.au
Applying to UQ

Follow the steps to apply to UQ for postgraduate coursework programs.

Choose your program

• Read your options on pages 8-35.
• Visit future-students.uq.edu.au

STEP 1
Choose

STEP 2
Apply

• Find your chosen program online at future-students.uq.edu.au/apply/postgraduate/choose-your-program
• Create your online account and begin your online application for postgraduate studies.

STEP 3
Accept

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

STEP 4
Enrol

Enrol in courses

• For help visit my.uq.edu.au
• Enrol online via mySI-net at sinet.uq.edu.au
• Plan your timetable and sign on for classes.
• Pay fees.

STEP 5
Prepare

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

Postgraduate higher degrees by research

For information on the application process for higher degree by research programs: graduate-school.uq.edu.au/uq-research-degrees

Domestic* Students

* You are a domestic student if you are: a citizen of Australia or New Zealand, or an Australian permanent resident, or a holder of an Australian permanent humanitarian visa.
** For more information on O-Week visit orientation.uq.edu.au Get your questions answered in time for when you start classes the following week.
International Students

STEP 1
Choose your program
- Find the program you wish to study in the programs section on pages 8–35.
- Check you meet all entry and English language proficiency requirements.
- Check the application deadline has not passed.

STEP 2
Create an account
- Go to UQ’s online application portal and create an account: apply.uq.edu.au

STEP 3
Complete your application
- Complete all details requested in the online application, attaching all required documentation as per the program entry requirements and any additional information requests.
  TIP: You can save an incomplete form and return later.
- You must provide complete academic transcripts (detailing all courses you have taken and qualifications you have been awarded from institutions other than UQ) and/or testamurs of your previous tertiary studies.
- If you want to apply for an English language pathway package, you can indicate this during the application process.

STEP 4
Submit your application
- Online: a non-refundable A$100 application fee will be charged when submitting your application online. After submission, you can check the status of your application through your account.
- Email: if you are unable to access the online application portal, please email applicationstatus@uq.edu.au to request a hard-copy form. A non-refundable A$150 application fee is payable for submission of a hard-copy application.
- In person: if you are unable to email your application, you can submit it in person or by mail to: UQ International, Level 2, JD Story building, St Lucia, The University of Queensland Brisbane, Queensland 4072 Australia. A non-refundable A$150 application fee is payable.
- Your application will be assessed by UQ International Admissions.

Closing dates
It is recommended that you submit your application no later than the dates below to ensure you have enough time to apply for a student visa.

Please note that some UQ programs have earlier deadline dates.
See future-students.uq.edu.au for details.

Semester 1
30 November of previous year
Semester 2
31 May of same year
Have a question about programs in this Guide?

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

Have a question about living and studying at UQ?

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

Have a question about entry requirements and admission to UQ?

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

Disclaimer
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All costs and fees quoted in this publication are in Australian dollars (A$) except where otherwise indicated.
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