2020 Postgraduate Programs

Agribusiness
Agricultural Science
Animal Science
Bioinformatics
Biotechnology
Conservation Biology / Science
Environmental Management
Financial Mathematics
Food Science and Technology

Geographic Information Science
Magnetic Resonance Technology
Magnetic Resonance and Positron Emission Tomography
Mineral Resources
Molecular Biology
Molecular Imaging Technology
Occupational Health and Safety Science
Quantitative Biology

Quantum Technology
Science
Urban and Regional Planning
Veterinary Science

SCIENCE
3 Campuses
6 Faculties

55,200+ students from more than 140 countries

#1 in Queensland for graduate employability

QS Graduate Employability Rankings 2019
The information in this Guide is accurate 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.

Cover image: Artist’s impression of DNA fragments visualised through gel electrophoresis.
Study options

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

What qualification will work best for you?

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

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.

Higher degree by research programs

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

- **Doctor of Philosophy (PhD)**
  The Doctor of Philosophy (PhD) is a three- to four-year full-time (or part-time equivalent) program in which an area of expertise becomes the focus of a research thesis. The PhD is the highest possible level of academic study. It is a good option if you want to transition to a career in academia, or if you wish to achieve a high level of professional and academic engagement within your area of industry expertise.

*For more details on the same discipline, visit future-students.uq.edu.au/apply/postgraduate
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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.
Quick reference table

<table>
<thead>
<tr>
<th>PROGRAM AND FIELDS OF STUDY</th>
<th>DURATION (FULL-TIME)</th>
<th>START SEMESTER</th>
<th>CAMPUS</th>
<th>DELIVERY MODE</th>
<th>PROGRAM CODE</th>
<th>CRICOS CODE</th>
<th>INDICATIVE TOTAL TUITION FEE FOR INTERNATIONAL STUDENTS (A$)</th>
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</table>

1 Fields of Study - Studies may be undertaken in these specialisations.
2 An “indicative total tuition fee” is the estimated total tuition fee cost of enrolling in a program for its standard duration from its earliest commencing semester. Pricing is indicative only and correct at time of print. For the most up-to-date fee information for international and domestic students, please visit: future-students.uq.edu.au
3 For the most up-to-date English language requirements, please visit: future-students.uq.edu.au
4 GC stands for Graduate Certificate, GD stands for Graduate Diploma
Bachelor degree in business, marketing or an approved discipline. UQ or equivalent GPA of 5 or above on a 7 point scale.

Bachelor degree in any field; or Graduate Certificate in Agribusiness. UQ or equivalent GPA of 4.5 or above on a 7 point scale.

Bachelor degree in agricultural science, animal science, biological science, plant science (botany, horticulture or agronomy), veterinary science, wildlife biology, zoology or an approved discipline. UQ or equivalent GPA of 5 or above on a 7 point scale.

Bachelor degree in any field; or Graduate Certificate in Agricultural Science. UQ or equivalent GPA of 4.5 or above on a 7 point scale.

Bachelor degree in agricultural science, biological science, plant science (botany, horticulture or agronomy), equine science, animal science (behaviour, production or technology), wildlife science, wildlife management, veterinary science, veterinary technology, zoology or an approved discipline. UQ or equivalent GPA of 5 or above on a 7 point scale.

Bachelor degree in any field; or Graduate Certificate in Animal Science. UQ or equivalent GPA of 4.5 or above on a 7 point scale.

An approved equivalent Bachelor degree (Honours) in Science, IT, Engineering, or a relevant field, incorporating a major research project or other significant research experience, with introductions to molecular biology, computer science and statistics. UQ or equivalent GPA of 5 or above on a 7 point scale.

An approved equivalent Bachelor degree in Science, IT or Engineering, with an introduction in one or more subjects relevant to the study of bioinformatics, including molecular biology, computer science and statistics; or Graduate Certificate in Bioinformatics. UQ or equivalent GPA of 5 or above on a 7 point scale.

An approved equivalent Bachelor degree (Honours) in Science, IT, Engineering, or approved relevant discipline, incorporating a major research project or other significant research experience, with introductions to molecular biology, computer science and statistics. UQ or equivalent GPA of 5 or above on a 7 point scale.

An approved equivalent Bachelor degree in Science, IT or Engineering, with an introduction in one or more subjects relevant to the study of bioinformatics, including molecular biology, computer science and statistics; or Graduate Certificate in Bioinformatics. UQ or equivalent GPA of 5 or above on a 7 point scale.

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.

An approved equivalent Bachelor degree in Biotechnology, Science, Bioinformatics, Pharmacy, Agriculture, Medicine or Engineering; or Graduate Certificate or Graduate Diploma in Biotechnology, UQ or equivalent GPA of 5 or above on a 7 point scale.

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

Bachelor of Science or Bachelor of Biotechnology with Class I or II A honours from UQ OR equivalent OR coursework master’s with approved results in the research component and a Grade Point Average of 5.5 on a 7 point scale OR at least 2 years relevant professional experience and/or research publications. All potential candidates are interviewed as part of the selection process.

An approved equivalent Bachelor degree (Honours) in Biotechnology, Science, Bioinformatics, Pharmacy, Engineering; or Bachelor degree in a relevant field incorporating a major research project, or with 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.

An approved equivalent Bachelor degree in Biotechnology, Science, Bioinformatics, Pharmacy, Agriculture, Medicine or Engineering; or Graduate Certificate or Graduate Diploma in Biotechnology, UQ or equivalent GPA of 5 or above on a 7 point scale.

Bachelor degree in botany, ecology, evolution, zoology or an approved discipline. UQ or equivalent GPA of 5 on a 7 point scale.

Bachelor’s degree in botany, ecology, evolution, zoology, or an approved discipline with UQ or equivalent GPA of 5 on a 7 point scale.

Bachelor degree in environmental studies, geography, natural resources, biology, ecology, conservation, sustainable development, environmental engineering, marine science, or an approved discipline. UQ or equivalent GPA of 4.5 or above on a 7 point scale.

Bachelor degree in any field; or Graduate Certificate or Graduate Diploma in Environmental Management. UQ or equivalent GPA of 4.5 or above on a 7 point scale.

Bachelor of Mathematics; or Bachelor degree majoring in mathematics. UQ or equivalent GPA of 5.5 or above on a 7 point scale.

Bachelor degree with first year university level mathematics (including single-variable and multi-variable calculus, ordinary differential equations and linear algebra). UQ or equivalent GPA of 5.5 or above on a 7 point scale.
## Quick reference table (Cont.)

<table>
<thead>
<tr>
<th>PROGRAM AND FIELDS OF STUDY</th>
<th>DURATION (FULL-TIME)</th>
<th>START SEMESTER</th>
<th>CAMPUS</th>
<th>DELIVERY MODE</th>
<th>PROGRAM CODE</th>
<th>CRICOS CODE</th>
<th>INDICATIVE TOTAL TUITION FEE FOR INTERNATIONAL STUDENTS (A$)</th>
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1. Fields of Study - Studies may be undertaken in these specialisations.
2. An “indicative total tuition fee” is the estimated total tuition fee cost of enrolling in a program for its standard duration from its earliest commencing semester. Pricing is indicative only and correct at time of print. For the most up-to-date fee information for international and domestic students, please visit: future-students.uq.edu.au
3. For the most up-to-date English language requirements, please visit: future-students.uq.edu.au
4. GC stands for Graduate Certificate, GD stands for Graduate Diploma
   - A Graduate Certificate in Magnetic Resonance and Positron Emission Tomography is also available.
<table>
<thead>
<tr>
<th>Admission Requirements (additional English language proficiency requirements apply³)</th>
<th>Other Options¹</th>
<th>See Page</th>
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<tbody>
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<td>Bachelor degree in a food science, food technology or food engineering field, or an approved discipline. UQ or equivalent GPA of 5 or above on a 7 point scale.</td>
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</tr>
<tr>
<td>Bachelor degree in any field; or Graduate Certificate or Graduate Diploma in Molecular Biology. UQ or equivalent GPA of 5 or above on a 7 point scale.</td>
<td>GC, GD</td>
<td>22</td>
</tr>
<tr>
<td>An approved equivalent Bachelor degree (Honours) in Genetics, Molecular Biology, Biochemistry, Biotechnology, Biological Chemistry, or an approved discipline; or Bachelor degree in an approved discipline plus a 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.</td>
<td></td>
<td>23</td>
</tr>
<tr>
<td>An approved equivalent Bachelor degree in Genetics, Molecular Biology, Biochemistry, Biotechnology, Biological Chemistry, or an approved discipline; or Graduate Certificate or Graduate Diploma in Molecular Biology. UQ or equivalent GPA of 5 or above on a 7 point scale.</td>
<td>GC, GD</td>
<td>23</td>
</tr>
<tr>
<td>Bachelor’s degree in applied science, medical imaging, chemistry, pharmacy, physics, computer science or electrical and biomedical engineering or an approved discipline. UQ or equivalent GPA of 4 or above on a 7 point scale</td>
<td></td>
<td>24</td>
</tr>
<tr>
<td>Bachelor degree in science, engineering, health science, or an approved discipline; with approved tertiary level background in chemistry and biology. UQ or equivalent GPA of 4 or above on a 7 point scale.</td>
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<td>25</td>
</tr>
<tr>
<td>Bachelor degree in any field and have completed first year university level science. UQ or equivalent GPA of 4 or above on a 7 point scale.</td>
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<td>25</td>
</tr>
<tr>
<td>Bachelor degree in equivalent discipline; or in any field of biology with some university level (or equivalent) mathematics including biostatistics; or a mathematics degree with at least some first and second year university level biology. UQ or equivalent GPA of 5 or above on a 7 point scale.</td>
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<td>26</td>
</tr>
<tr>
<td>Bachelor degree in any field and have completed first and second year university level (or equivalent) biology or mathematics. UQ or equivalent GPA of 5 or above on a 7 point scale.</td>
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<td>26</td>
</tr>
<tr>
<td>Approved bachelor’s degree in the same discipline (computer science, engineering, information technology, mathematics, chemistry or statistics), and have completed 4 units (or equivalent) of first year university level mathematics and calculus-based physics. UQ or equivalent GPA of 5.5 or above on a 7 point scale.</td>
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<td>27</td>
</tr>
<tr>
<td>Mathematics field: Bachelor degree with mathematics major; Physics field: Bachelor degree with physics major; Statistics field: Bachelor degree with statistics major. UQ or equivalent GPA of 5.5 or above on a 7 point scale.</td>
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<td>29</td>
</tr>
<tr>
<td>Bachelor degree with first year university level in the field of study.</td>
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<td>29</td>
</tr>
<tr>
<td>Bachelor degree in any field; or Graduate Certificate or Graduate Diploma in Urban and Regional Planning. UQ or equivalent GPA of 4.5 or above on a 7 point scale.</td>
<td>GC, GD</td>
<td>30</td>
</tr>
<tr>
<td>Bachelor degree in veterinary science or an approved discipline; or Graduate Certificate or Graduate Diploma in Veterinary Science.</td>
<td></td>
<td>31</td>
</tr>
<tr>
<td>BVSc(Hons) with honors class IIB or higher; OR Postgraduate degree in Veterinary Science of at least one year full-time equivalent including relevant experience and an overall GPA of 5; OR BVSc or equivalent plus two years relevant experience, or one year internship under the supervision of a registered veterinary specialist. Applicants must satisfy the Head of School and Dean of the Graduate School that they are qualified for admission, and may be required to attend an interview. Applicants must be eligible for registration with the Veterinary Surgeons Board of Queensland.</td>
<td></td>
<td>31</td>
</tr>
</tbody>
</table>
Agribusiness

Why Agribusiness at UQ?
We offer one of the leading agribusiness programs in Australia, and are among the world’s top 20 universities for agriculture (QS World University Rankings by Subject 2019). Our academics bring their expertise into the classroom and share actionable insights for contemporary agribusiness issues such as understanding consumers and markets, and managing value chains and business risks. Our hands-on approach to learning ensures you’ll be regularly exposed to practising managers and their businesses.

Futureproof your career with advanced courses on modern agribusiness practices, emerging technologies, business communication and the latest sustainability practices. Our programs are designed for recent business, agricultural or rural science graduates and established professionals wanting to upgrade their management skills and those wishing to redirect their career into agribusiness.

What you will study
As a postgraduate agribusiness student, you’ll explore all aspects of the value chain to confidently work with small- and large-scale producers, processors, transporters, financial institutions and domestic and international retailers to deliver high-quality and affordable products. Through the selection of electives in entrepreneurship, corporate law, finance and effective stakeholder engagement, you could position yourself as a future business leader.

Sample courses:
• Accounting
• Agribusiness Planning and Management
• Applied Market Research
• Agrifood Strategies and Competitiveness
• Agribusiness Value Chain Management
• Agribusiness Project Appraisal
• Agribusiness Marketing
• Commodities, Futures and Options.

Practical experience
As part of the Master of Agribusiness you may choose to complete a research project on a topic of your choice. You will increase your technical and research skills working alongside some of the university’s leading academics and researchers or in an industry setting.

Career opportunities
You’ll graduate with a market-oriented focus, commercial awareness, an innovative and heightened global outlook, and the required technical skills to work in agribusiness management roles. Expect to find almost immediate work in the food and fibre industries in managerial, administrative or research roles related to:
• agribusiness management
• agribusiness research
• agri-politics
• government
• banking, finance, investment and insurance
• commodity trading, sales and marketing
• export marketing and management
• policy development and analysis in agricultural and regional agencies
• property management
• supply chain management
• tourism.

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

“The Master of Agribusiness has helped me understand the way the business works as a whole in a chain of production affecting a lot of players. […] The facilities were excellent, however what was most important was the quality of teachers. I had the best teachers while I was studying. They were not only professional teachers of theory, but had a lot of experience in their field.”

Norman Rieder
Master of Agribusiness
Agricultural Science

Why Agricultural Science at UQ?
Being ranked number one in Australia in agriculture for both research and teaching outcomes means you’ll learn from research academics who are world leaders in their disciplines (QS World University Rankings by Subject 2019). Our staff are also integrally connected to industry and government, giving you the opportunity to apply theory to real-life problems.

You’ll have access to our extensive specialist research facilities across two campuses, including a range of plant and soil laboratories, nurseries and propagation facilities, and glasshouses.

What you will study
You will be exposed to the latest advances in agricultural science, including precision agriculture techniques, genetic technologies and sustainable resource management.

Sample courses:
• Advanced Agronomy
• Animal Science and Production
• Global Challenges in Agriculture
• Leadership in Rural Industries and Communities
• Principles of Plant Physiology
• Principles of Weed Science
• Principles of Integrated Plant Protection

Fields of study
In this master’s program, you can select from one of three specialised fields allowing you to tailor your studies to suit your interests and career goals.

Agronomy
Study advanced agronomic practices and gain a comprehensive understanding of soil science, weed science and plant physiology.

Horticulture
Deepen your knowledge of the science and technology of producing nursery, fruit, vegetable and flower crops.

Plant Protection
Develop your first-hand expertise in crop monitoring, pest and disease identification, management and reporting.

This field is offered at the St Lucia and Gatton campuses.

Practical experience
Apply and sharpen your skills through field visits and laboratory practicals as part of your courses. As a master’s student, you may also choose to undertake an independent research project to increase your technical and research skills working alongside some of the university’s leading academics and researchers or in an industry setting.

Career opportunities
Postgraduate study in agricultural science allows you to expand your career prospects into a wide range of government, commercial, community or research-based roles, such as:
• agronomists and horticulturalists
• agricultural scientists in government, industry and international institutions
• agricultural consultants
• managers of agricultural enterprises
• advisors in banks
• animal scientists and dairy technologists
• agricultural and resource economists
• extension and inspection officers
• land information systems officers
• plant protection advisors or horticultural consultants
• educators (after completing a Graduate Diploma of Education).

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

Why Animal Science at UQ?
As the number one university in Australia for agricultural science, our programs are informed by the latest research and taught by world-class academic staff, ensuring you receive the highest quality education (QS World University Rankings by Subject 2019).
You will benefit from hands-on learning in our extensive research and teaching facilities on Gatton campus and the nearby Darbalara farm. Covering 1068 hectares, our facilities include extensive specialist equine and wildlife facilities, as well as a dairy, piggery, sheep and goat herds.

What you will study
The program has been designed to develop core scientific skills in animal science, but with the flexibility to select business electives to hone your management and leadership skills. The program also gives you the opportunity to complete a significant research project which may provide a pathway to research higher degrees.

Sample courses:
• Animal Breeding Technology
• Animal Reproductive Science
• Animal Nutrition and Technology
• Advanced Pasture Management
• Human-Wildlife Conflict Management.

Fields of study
As part of the master’s program, you can select from one of three specialised fields of study to gain comprehensive theoretical and practical knowledge.

Equine Science
Gain a detailed understanding of equine health and welfare, including nutrition, exercise physiology, and reproduction.

Production Animal Science
Develop advanced knowledge of the management and production of domestic farm animals (cattle, sheep, pigs, poultry and goats) in a society with increasing needs for animal products, especially meat.

Wildlife Biology
Study advanced courses in wildlife husbandry, management and breeding of both native and introduced species.

Practical experience
You will have the opportunity to utilize the extensive equine, production animal, and wildlife resources on the Gatton campus and visit commercial enterprises.

Career opportunities
Depending on the field of specialisation, many of our graduates find supervisory, consulting or management roles as:
• animal nutritionist
• animal research scientist
• biosecurity or customs officer
• equine nutritionist
• equine physical therapist
• livestock adviser or consultant
• national parks officer
• wildlife ecologist or scientist
• zookeeper.

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

GC GRADUATE CERTIFICATE

Duration: 6 months full-time
Start semester: 1 (24 Feb 2020)
2 (27 Jul 2020)
Location: Gatton
Program code: 5565
Your current qualification: Bachelor degree in any field, with UQ or equivalent GPA of 4 or above on a 7 point scale; or 2 years of work experience in the same discipline.

M MASTER (24 UNITS)

Duration: 1.5 years full-time
Start semester: 1 (24 Feb 2020)
2 (27 July 2020)
Location: Gatton
Program code: 5570
Your current qualification: Bachelor degree in agricultural science, biological science, plant science (botany, horticulture or agronomy), equine science, animal science (behaviour, production or technology), wildlife science, wildlife management, veterinary science, veterinary technology, zoology or an approved discipline. UQ or equivalent GPA of 5 or above on a 7 point scale.

M MASTER (32 UNITS)

Duration: 2 years full-time
Start semester: 1 (24 Feb 2020)
2 (27 July 2020)
Location: Gatton
Program code: 5571
Your current qualification: Bachelor degree in any field, or Graduate Certificate in Animal Science. UQ or equivalent GPA of 4.5 or above on a 7 point scale.

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

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

Why Bioinformatics at UQ?
As industries are moving more deeply into genetic technologies, the demand for bioinformaticians with expertise in computational statistics, software engineering, data mining, and genome informatics is expanding. This interdisciplinary skill set will make you employable anywhere in the world. Courses are taught by academics who are leading researchers in their fields. You will engage in laboratory research across disciplines such as neuroscience, medicine and agriculture.

Why Bioinformatics at UQ?
As industries are moving more deeply into genetic technologies, the demand for bioinformaticians with expertise in computational statistics, software engineering, data mining, and genome informatics is expanding. This interdisciplinary skill set will make you employable anywhere in the world. Courses are taught by academics who are leading researchers in their fields. You will engage in laboratory research across disciplines such as neuroscience, medicine and agriculture.

What you will study
Our bioinformatics programs are designed for biological sciences, computing and mathematics graduates who wish to increase their technical and research skills in core areas of bioinformatics; update their knowledge of recent technologies and methodologies; and obtain practical laboratory and computational skills through immersion in a research laboratory.

Sample courses:
- Concepts in Bioinformatics
- Applications of Computational Statistics
- Advanced Bioinformatics
- Advanced Genome Informatics
- Data Mining
- Statistical Analysis of Genetic Data
- Advanced Software Engineering.

Practical experience
Take advantage of our links to industry, government and academic institutions in Australia and overseas and participate in internships, placements and international study. An independent research project on campus or in industry will increase your technical and research skills.

Career opportunities
Postgraduate study in bioinformatics will prepare you for a highly rewarding career in a variety of organisations, including pharmaceutical and biotechnology companies, research organisations and government in roles such as:
- bioinformatician
- data scientist or analyst
- biostatistician
- clinical data manager
- genetist
- medical/technical writer
- research scientist
- software/database programmer.

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

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

Studying biotechnology will equip you with the skills needed to translate discoveries from the laboratory to real life. Through a perfect mix of science and business, our programs will build on your expertise with core courses in business planning, quality management systems, regulatory issues and intellectual property, coupled with a large suite of electives in science that underpin new biotechnologies.

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.

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.

GC: GRADUATE CERTIFICATE
Duration: 6 months full-time
Start semester: 1 (24 Feb 2020)
Location: St Lucia
Program code: 5013
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.

GD: GRADUATE DIPLOMA
Duration: 1 year full-time
Start semester: 1 (24 Feb 2020)
Location: St Lucia
Program code: 5199
Your current qualification: Bachelor degree in any field; or Graduate Certificate in Biotechnology. UQ or equivalent GPA of 5 or above on a 7 point scale.

M: MASTER (32 UNITS)
Duration: 2 years full-time
Start semester: 1 (24 Feb 2020)
Location: St Lucia
Program code: 5599
Your current qualification: Bachelor degree in any field, with UQ or equivalent GPA of 5 or above on a 7 point scale.

M: MASTER (16 UNITS)
Duration: 1 year full-time
Start semester: 1 (24 Feb 2020)
Location: St Lucia
Program code: 5386
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.

M: MASTER (24 UNITS)
Duration: 1.5 years full-time
Start semester: 1 (24 Feb 2020)
Location: St Lucia
Program code: 5159
Your current qualification: An approved equivalent Bachelor degree in Biotechnology, Science, Bioinformatics, Pharmacy, Agriculture, Medicine or Engineering; or Graduate Certificate or Graduate Diploma in Biotechnology. UQ or equivalent GPA of 5 or above on a 7 point scale.

M: MASTER RESEARCH EXTENSIVE (24 UNITS)
Duration: 1.5 years full-time
Start semester: 1 (24 Feb 2020)
Location: St Lucia
Program code: 5626
Your current qualification: An approved equivalent Bachelor degree (Honours) in Biotechnology, Science, Bioinformatics, Pharmacy, Engineering; or Bachelor degree in a relevant field incorporating a major research project; or with 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.

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

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

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.

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

“\r
The 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
Conservation Biology/Science

Why Conservation at UQ?
Our master’s programs in conservation will enhance your career prospects by building knowledge and experience in the scientific methods used to analyse, quantify and make decisions about conservation.

According to the largest academic ranking of global world universities, UQ is the world’s leading university for biodiversity conservation research (Center for World University Rankings by Subject 2017). This means, you will be taught by the leading industry experts as well as internationally renowned academics in areas related to conservation science.

These programs are taught in an intensive mode with blocks of fieldwork that allow you to complete the equivalent of two academic years in just 18 months (32 units) or the equivalent of one and a half academic years in just 12 months (24 units).

Some classes commence ahead of the usual Semester 2 schedule and are taught in shorter intensive teaching periods, as well as during the Summer Semester. You will receive information about start dates when you are accepted into the program.

What you will study
Both programs cover the integrative disciplines of conservation, ecology and biodiversity and focus on the problems of restoring and maintaining viable populations of animal and plant species, and natural and managed ecosystems.

You will gain a comprehensive education in conservation, from law and environmental philosophy to field courses and studies in cutting edge conservation decision making.

Sample courses:
• Conservation & Wildlife Biology
• Geographical Information Systems
• Marine Conservation
• Rainforest Conservation
• Conservation Concerns: An Industry Perspective
• Space invaders: Invasive Species, Field Skills and GIS Mapping
• Conservation Decision-Making.

UQ’s Heron Island Research Station, Great Barrier Reef.

Practical experience
You will complete more than a month of field work at unique sites including subtropical rainforests, national parks, outback Australia, UQ’s Heron Island and Moreton Bay research stations, and the Solomon Islands.

Career opportunities
Conservation professionals work in the field and in offices across the public, private and not-for-profit sectors. They typically work in government departments, universities, non-profit organisations, or in industry in various managerial, educational, research and consultancy roles. You may work in areas such as:
• national parks and wildlife conservation
• natural resource management
• policy development
• mining
• agriculture
• education
• research.

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

“The exposure to working in the field in various ecosystems as part of my degree with an international cohort helped me to land a job as a Conservation Biologist in Mauritius before I had even completed my studies.”

Jonathan Gnanapragasan
Master of Conservation Biology

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

**Why Environmental Management at UQ?**

Ranked as the top university in Australia and 11th internationally for research in environmental sciences means your UQ lecturers are experts and world leaders in their fields (2019 QS World University Rankings by Subject). They are involved in environmental decision-making for influential institutions around the world, including the Nature Conservancy, the Royal Society of London, Great Barrier Reef Marine Park Authority, and the World Health Organisation.

At UQ you will access some of the world’s most unique biodiversity hotspots, allowing you to experience fascinating ecosystems ranging from coral reefs to World Heritage rainforests. Our Heron Island and Moreton Bay research stations enable innovative opportunities for marine and terrestrial research and interactive field- and lab-based learning.

**What you will study**

Our Environmental Management programs combine scientific, economic, planning and business principles to enhance your skills and technical expertise. Industry experts will share essential techniques and methods for resolving sustainable development issues. Gain a competitive edge by participating in international study opportunities, research projects and industry placements.

**Sample compulsory courses:**
- Foundations in Environmental Studies
- Environmental Problem Solving

**Sample elective courses:**
- Environmental Management in Mining
- Carbon and Energy Management
- Geographic Information Systems
- Global Population Issues
- Industry Placement.

**Practical experience**

You will gain hands-on experience while exploring a variety of locations and landscapes on field trips to ancient and exotic places in Queensland and abroad. The Industry Placement course in your second year of study gives you the opportunity to complete a semester-long project with an external organisation. You will gain practical field-related experience while enhancing your report writing and project management skills.

**Career opportunities**

As an environmental manager, you can apply your skills in a variety of roles and sectors, including:
- national parks and wildlife conservation
- environmental assessment and compliance
- natural resource manager
- policy developer
- government and commercial consultant
- mining industry
- environmental tourism
- environmental manager
- education and research.

“A large part of my decision to study at UQ was based on UQ’s excellent reputation in the field of environmental studies. Being so close to the extraordinary marine environments off the Queensland coast was also a factor!”

Sophie Clay  
Master of Environmental Management

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

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

Why Financial Mathematics at UQ?
The Master of Financial Mathematics helps to qualify you for your next professional advancement in banking, insurance, investment, utilities, mining, or any industry in which aspects of contemporary financial markets – such as international exchange rates, futures contracts and options – play a significant role.
The program is tailored to build upon your background in mathematics, commerce or economics/econometrics.

M MASTER (24 UNITS)

Duration: 1.5 years full-time
Start semester: 1 (24 Feb 2020)
2 (27 July 2020)
Location: St Lucia
Program code: 5572
Your current qualification: Bachelor of Mathematics; or Bachelor degree majoring in mathematics. UQ or equivalent GPA of 5.5 or above on a 7 point scale.

M MASTER (32 UNITS)

Duration: 2 years full-time
Start semester: 1 (24 Feb 2020)
2 (27 July 2020)
Location: St Lucia
Program code: 5573
Your current qualification: Bachelor of Mathematics; or Bachelor degree majoring in mathematics. UQ or equivalent GPA of 5.5 or above on a 7 point scale.

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

You’ll learn cutting-edge computational methodology, mathematical modelling and stochastic methods in finance in order to identify strategic investment or business opportunities, manage portfolios, and price financial products.

What you will study
With high demand for quantitative skills in the finance sector, UQ’s Master of Financial Mathematics is designed to equip you with sophisticated mathematical and computational techniques to measure and manage risk in the financial marketplace.
Study the pricing of financial contracts such as financial and real options, management of investment portfolios, capital adequacy requirements for financial institutions, valuation of firms, optimal capital management and optimal contracting.

Sample courses:
Our programs offer you a practical and flexible curriculum that you can tailor to your interests and career goals through a range of elective courses, including:
• Computation in Financial Mathematics
• Financial Calculus
• Machine Learning
• Financial Risk Management
• Econometric of Financial Markets.

Practical experience
Benefit from UQ’s strong connections with industry and government and experience the financial markets first-hand with an industry placement project as part of your program. You apply your knowledge and skills while working with an industry partner in sectors such as banking, energy trading or superannuation.

“I was fortunate to conduct my industry placement research project at Suncorp Group, which allowed me to apply the mathematical models and the statistical analysis techniques for machine learning I was learning in the classroom and helped me to secure a job with the organisation while I was still studying.”

April Zhang
Master of Financial Mathematics

Career opportunities
With a Master of Financial Mathematics qualification, you’ll be highly sought by investment banks, corporate risk management units, insurance companies, fund management institutions, financial regulatory bodies, brokerage firms and trading companies. You will find rewarding careers in positions such as:
• investment banker
• retail banker
• insurance actuary
• risk manager in the electricity and mining sectors
• funds manager
• data scientist.

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

You typically work in areas of quality control, new product development, research and innovation.
Geographic Information Science

Why Geographic Information Science at UQ?
Whether you want to advance your career in ecology, mineral and oil exploration, health, urban and regional planning, mathematics, cartography, surveying, geography or environmental science, this program will equip you with the geospatial data skills you need to get there.
You will access specialist laboratories that feature the latest applications for GIS, remote sensing, automating geospatial tasks with programming, and web map publishing. You will use online GIS data and applications for key national data such as the population census, Earth observation and national mapping services for society and the environment to gain a comprehensive understanding of these applications across many sectors.

What you will study
You will study advanced areas of GIS and choose electives from spatial analysis, remote-sensing, web mapping and related professional skills development.
You will graduate with advanced computing skills in GIS software, competence in GIS and remote-sensing operations, and project implementation and management skills.

Sample courses:
• Advanced Earth Observation Sciences
• Geospatial Processing and Web Mapping
• Advanced Geographical Information Systems
• Geographic Information Science Research Project.

Practical experience
During the later part of your master’s studies, you will have the opportunity to undertake a semester-long GIS and/or remote sensing research project where you will also gain practical field-related experience while enhancing your report writing and project management skills.

Career opportunities
UQ graduates are job ready, with skills across a number of sectors, including:
• planning
• built environment
• environment and resource management

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

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

“The skills I obtained through my degree helped significantly. Sound theoretical background and practical work during my study helped me to be firm in developing concepts, methods and applications that are crucial for my daily work.”

Ralf D. Schroers
Master of Geographic Information Science

• emerging areas in IT
• local, state and federal governments
• agencies such as the military, police, emergency services, and utilities
• private sector spatial information consultants
• spatial data collection and remote sensing companies
• IT companies who develop specialised geospatial software
• development companies
• scientific and research institutions.
Magnetic Resonance Technology

Why Magnetic Resonance Technology at UQ?

The Magnetic Resonance Technology programs are designed for professionals wanting to gain an advanced understanding of the physics and technology surrounding magnetic resonance. You will have access to new techniques which are not yet part of standard clinical practice.

UQ has the most comprehensive and advanced range of magnetic resonance instrumentation in the southern hemisphere, including three whole body scanners, several High Resolution NMR spectrometers, solid states and EPR instruments and microimaging and animal imaging systems. You will learn within a multidisciplinary environment from experienced radiographers, medical practitioners, medical physicists, chemists and engineers.

All courses in this program can be completed online to help you organise your study around professional and personal commitments.

What you will study

This program consists of core courses, electives and a research component.

You will learn the physics of magnetic resonance and image formation, the components of modern MRI scanners and develop specialist practical skills essential for a dynamic career in this field.

Apply your knowledge to projects that make innovative use of magnetic resonance as well as the skills to assess the needs of a radiography practice and the capability of equipment from various manufacturers to meet these needs.

Sample courses:
- Fundamental Musculoskeletal MRI
- Breast MRI
- Fundamental MRI of the Brain & Spine
- Advanced Techniques in Magnetic Resonance Imaging
- Magnetic Resonance Instrumentation
- MRI pulse sequence construction and image contrast
- MR Safety & Monitoring.

CPD credit recognition

This program is eligible for Australian Society of Medical Imaging and Radiation Therapy continuing professional development (CPD) points accrual.

Career opportunities

There is currently an unmet demand for MRI physicists, MR technologists, image processors, engineers, and biomedical engineers within Australia and internationally. Graduates from this program have found employment in leadership positions in hospitals, private practice and research facilities.

For English language entry requirements

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

For more information

future-students.uq.edu.au
Magnetic Resonance and Positron Emission Tomography

Why Magnetic Resonance and Positron Emission Tomography at UQ?
Medical imaging is rapidly developing and hybrid medical imaging systems are becoming more commonplace. Blending high-resolution Magnetic Resonance Imaging (MRI) and the physiological data of Positron Emission Tomography (PET), this program will place you at the forefront of medical diagnosis. The operation of this new hybrid system requires an understanding of both the MRI and PET stand-alone technologies.

The Graduate Certificate in Magnetic Resonance and Positron Emission Tomography is designed for professionals such as nuclear medicine technologists, diagnostic radiographers and medical imaging researchers who require a more in-depth knowledge of the theoretical fundamentals and operational considerations of a hybrid MRI and PET scanner.

To help you organise your study around professional and personal commitments, all courses in this program can be completed online.

What you will study
This program develops your understanding of the operation of a MR-PET system including hardware, software, preparation, and calibration. You will also gain an understanding of MRI methodology and safety, patient preparation and screening, common clinical indications and MRI protocols used when imaging various parts of the human body. You will also explore the use of contrast agents and the factors affecting the accuracy of MRI images.

Course list:
• MR-PET Hardware and Software Integration
• Clinical Magnetic Resonance Imaging
• MR Safety & Monitoring
• Magnetic Resonance Imaging: Fundamentals

Practical experience
Apply your knowledge and skills during a week-long on-campus practical immersion during which you will operate MRI scanners and practice scanning on human volunteers.

CPD credit recognition
This program is eligible for Australian Society of Medical Imaging and Radiation Therapy continuing professional development (CPD) points accrual.

Career opportunities
Graduates from this program work in nuclear medicine and diagnostic radiography. Others go on to use this exciting technology for research.

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

GRADUATE CERTIFICATE
Duration: 6 months full-time
Start semester: 1 (24 Feb 2020)
2 (27 Jul 2020)
Location: St Lucia
Program code: 5654
Your current qualification: Bachelor degree in mathematics, physics, chemistry, biology, medical imaging, medical radiation, radiography, allied health, biomedical engineering, engineering, computer science or a relevant discipline. Applications on the basis of post-secondary study and two years work experience in a related field will be individually assessed. UQ equivalent GPA of 4 or above on a 7 point scale.

For more information:
future-students.uq.edu.au
Why Mineral Resources at UQ?

Whether your goal is to enhance your scientific and technical knowledge, accelerate your career, or gain entry into the dynamic minerals sector, the Mineral Resources program will support your career aspirations. You will learn from experts with an applied research background to ensure you gain the latest scientific knowledge. Experienced industry associates will also explore a range of strategies for practical implementation with you to put this knowledge into industry contexts.

What you will study

Throughout these programs, you will advance your knowledge in key specialist areas of the minerals industry. You will gain analytical skills enabling you to critically assess complex industry problems, and investigate and resolve operational problems in a safe and commercially efficient manner.

Sample courses:
• Ore Body Modelling
• Geographical Information Systems
• Exploration Seismology
• Industrial Applications of Exploration Geophysics
• Environmental Management in Mining.

Fields of study

The Graduate Diploma and the master’s programs give you the option to select from the following specialised fields of study:

Exploration Geology
You will develop advanced skills in economic geology and mineral exploration, including coal.

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

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

Why Molecular Biology at UQ?
UQ is a leading international powerhouse of teaching and research in the fields of chemical and molecular life sciences. You will learn from scientists who have contributed to significant scientific advances in areas as diverse as safer vaccines, understanding antibiotic resistance, potential treatments for viral infections, and breast cancer research to allow early detection.

Build your practical skills as you experience laboratory techniques such as electrophoresis, polymerase chain reaction, endonuclease mapping, fluorescent reporters and expression vectors.

What you will study
Develop an advanced knowledge of the structure and function of genes and the proteins they encode. You will cover genome sequencing, recombinant DNA technology and macromolecular structure determination. Through laboratory practicals, workshops, projects and directed study, you will receive training in bioinformatics, molecular genetics, biomolecular structure and function, and immunology.

Sample courses:
- Advanced Molecular Biology Laboratory
- Advanced Protein Technology
- Advanced Genomics and Bioinformatics
- Concepts in Bioinformatics
- Directed Studies in Biomolecular Structure and Function
- Directed Studies in Molecular Genetics
- Immunology and Infectious Diseases.

Practical experience
You will gain practical insights and crucial research skills by undertaking a research-focused internship or significant research project with our industry partners. Science is about working with others towards a common goal, and industry experiences enable you to put theory into practice, build relationships with potential employers and mentors, and test career options.

Research extensive option
If your goal is to work at the ‘coalface’ of molecular biology research, then the research extensive master’s programs will provide you with a head start. These programs enhance your technical and research skills in core areas of molecular biology, protein technology and bioinformatics through a two or three semester laboratory immersion. You can undertake the research project within university laboratories or in an industry setting with co-supervision by one of our academics. The course may also be taken as an industry placement under the direct supervision of an industry-based supervisor in a company, government department or other suitable organisation.

Career opportunities
You will be equipped with high-level knowledge and skills relevant to modern molecular biology research or industry practice. Opportunities for graduates exist across the public, private and not-for-profit sectors in areas, including:
- health
- agriculture
- diagnostics
- the environment
- food
- pharmaceuticals
- biotechnology
- pathology
- research.

For English language entry requirements
future-students.uq.edu.au/apply/english-language-proficiency-requirements
As part of your project you will learn the latest techniques in molecular biology, such as protein engineering, artificial evolution, enzymology, high-throughput screening, bioinformatics, ancestral sequence reconstruction, fundamental methods of molecular cloning, protein purification and LC-MS analysis of small molecules.

You will also learn how to formulate a creative hypothesis, design and execute experiments, and become familiar with Australian laboratory safety standards. Regular consultations with your supervisor allow you to discuss progress and receive feedback and guidance.

During your last semester, you will hone your scientific communication skills when you present your findings in the form of a scientific manuscript suitable for publication in a relevant scientific journal. You will also present your project peer review during a seminar session to your lab group members.

The research extensive programs provide you with strong preparation for entry into a PhD program.

“At UQ, I was fortunate to be taught and mentored by so many brilliant minds who also strongly encouraged me to push the boundaries and actively pursue my interests. Outside of my degree there were opportunities aplenty to enhance my learning, including summer and winter research programs, extracurricular activities, research symposiums, science clubs and volunteering.”

Dr Christopher Haggarty-Weir
Master of Molecular Biology

For more information
future-students.uq.edu.au
Molecular Imaging Technology

Why Molecular Imaging Technology at UQ?

The Master of Molecular Imaging Technology is taught by molecular imaging experts supported by the most comprehensive and advanced range of magnetic resonance instrumentation in the southern hemisphere. You will become equipped to drive advances in disease diagnostics, molecular characterisation and drug discovery.

This program has been designed for graduates with a background in chemistry, biology, physics, computer science, engineering, radiography and nuclear medicine technology who wish to gain an in-depth knowledge of molecular imaging.

To help you organise your study around professional and personal commitments, all courses in this program can be completed online.

What you will study

You will cover all key aspects of molecular imaging, including optical imaging (i.e. luminescence and fluorescence), ultrasound photoacoustic imaging, single photon emission tomography (SPECT), positron emission tomography (PET), computed tomography (CT), magnetic resonance imaging (MRI), as well as hybrid imaging technologies (i.e. PET/CT, SPECT/CT, PET/MRI). You will also learn about the latest molecular imaging probes, contrast agents and radiopharmaceuticals for Nuclear Medicine as well as the importance of quality control involved in clinical molecular imaging.

Sample courses:

- Clinical Molecular Imaging
- Molecular Targets and Imaging Probes
- Radiotracer Based Imaging
- Magnetic Resonance Spectroscopy and Applications
- Pathological Correlates of Molecular Imaging.

Practical experience

You will have the opportunity to undertake a semester-long molecular imaging research project under the guidance of an academic supervisor. Using previously acquired data in the areas of molecular imaging, you will learn to organise, analyse and discuss information and draw defensible conclusions. A two-week residential component at the start of the course further adds to your research training.

Career opportunities

Use the Master of Molecular Imaging as a springboard for a rewarding career in roles such as:

- radio-pharmacist, physicist or engineer in the biotechnology sector
- clinical imaging technologist

“...the projects gave me scope to tailor the course toward a variety of interests. Ranging from generating molecular imaging probes to drug development and pre-clinical imaging, the Master of Molecular Imaging course offers an interesting insight into the molecular imaging field and community.”

Joshua Simpson
Master of Molecular Imaging

For more information
future-students.uq.edu.au
Occupational Health and Safety Science

Why Occupational Health and Safety Science at UQ?
Learn from some of the leading Occupational Health and Safety (OHS) experts in Australia in a program that has been developed in response to industry demand for highly-qualified OHS professionals.
The program addresses industry hazards - chemical, physical, mechanical, biological and psychosocial within the context of the core OHS disciplines of occupational hygiene, ergonomics, occupational health, safety science and risk management. In addition, you will conduct industry-based research.

What you will study
You will be equipped with the theoretical knowledge, practical application and professional attributes necessary for a career in OHS. Study a range of complementary disciplines, including environmental management, business and engineering to further strengthen your work-readiness.

Sample courses:
- Occupational Hygiene
- OHS Management Systems
- Risk Management
- OHS Law.

Practical experience
Apply theory to practice, build your industry contacts, and extend your independence as a researcher through a one- or two-semester industry research project. You will work in a host workplace on a part-time basis and plan, design, perform, analyse and report on an OHS industry research project.

Professional memberships and accreditation
This program is accredited by the Australian Occupational Health and Safety Education Accreditation Board. Graduates are eligible to become members of the following professional associations: Safety Institute of Australia, Human Factors and Ergonomics Society of Australia, Australian Institute of Occupational Hygienists.

Career opportunities
You will graduate ready to work globally in remote, rural or urban regions and across all industries, including mining, agriculture, retail, hospitality, construction, transport, manufacturing, health care, government, private sector or consultancy. On a day-to-day basis OHS professionals are involved in:
- monitoring and modifying the work environment
- delivering education programs
- devising, evaluating and implementing OHS management systems
- undertaking OHS audits and inspections
- completing accident investigations
- ensuring compliance with legislation.

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- undertaking OHS audits and inspections
- completing accident investigations
- ensuring compliance with legislation.

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

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

Why Quantitative Biology at UQ?
Tap into the unlimited potential of algorithms to solve biology-based questions across ecology, genetics and evolution. As the first of its kind in Australia, this program will help you get ahead of the competition, offering a unique combination of foundational courses in programming in biology and intensive core courses in stochastic modelling, optimisation and computational methods in biology.

Your teachers are also active researchers who bring quantitative approaches to addressing global challenges in fields as diverse as conservation and human health. They develop recommendations on how to maintain biodiversity, mitigate climate change impacts, maximise productivity in biofuel production, and understand the functional stability of the gut microbiome.

This program is taught in an intensive mode, so you can complete the equivalent of two years’ study in just 18 months (32 units), and for those with approved prior studies in just 12 months (24 units).

What you will study
The 24 unit master’s program commences in the Summer Semester with a thorough introduction to two programming languages that are widely used within the biological sciences: Python and R. You will use a variety of real biological datasets to learn about basic syntax, data import, export and manipulation, control flow, statistical analysis, string manipulation and advanced plotting.

The 32 unit master’s program allows you to develop your knowledge of conservation, mathematics and statistics during your first semester before moving into the more specialised quantitative biology courses. In the following semesters you will further develop your programming skills, navigate High-Performance Computing (HPC) platforms and spatial tools, such as remote sensing. You will learn how to visualise complex data in creative ways, produce interactive Shiny apps for exploring data, and bundle your code into well-documented and readily deployable R packages.

You will also hone your scientific communication skills and learn to publish reports that integrate the analysis of text, code, data and graphics using R Markdown.

Sample courses:
• Foundations of Quantitative Biology
• Exploring Biological Data
• Stochastic Models and Statistical Inference
• Optimisation in Biological Systems
• Conservation and Wildlife Biology
• Applied Mathematical Analysis
• Statistical Analysis of Genetic Data.

Practical experience
The Introduction to “Big Data” Biological Research course in your last semester of study gives you the opportunity to complete a research project with a UQ academic or an external organisation. You will gain practical experience working with large data sets while enhancing your report writing and project management skills.

Career opportunities
Urgent demand for graduates with programming and analytical skills is high within biological fields as well as in emerging job markets such as personalised medicine, biotechnology and agribusiness. Diverse career options include data-based roles in the corporate, government, conservation, environmental and medical sectors, and in research organisations globally. Expect to find research or consultancy work in a range of industries, including:
• conservation
• pharmaceutical development
• plant and animal biotechnology
• statistical and personalised medicine
• epidemiology
• agriculture and agribusiness.

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

Why Science at UQ?
UQ’s postgraduate programs in Science provide advanced theoretical and practical knowledge in the specialised scientific fields of mathematics, physics and statistics. Gain the skills to understand, analyse and influence our world. You will benefit from UQ’s first-class facilities and learn from global experts.

What you will study
Through lectures, workshops, projects and directed study, you will extend your knowledge in your chosen field of mathematics, physics or statistics, or develop an understanding of a specialised field in which you have little previous knowledge.

Sample courses:
• Financial Calculus
• Mathematical Biology
• Advanced Quantum Theory
• Condensed Matter Physics: Electronic Properties of Crystals
• Applied Probability and Statistics
• Frontiers in Astrophysics.

Fields of study
Mathematics
Undertake advanced courses in mathematics and its applications. Learn about recent developments in analysis, algebra and combinatorics, computational mathematics, and statistics and probability. Study modern applications of mathematics in areas such as coding and cryptography, bioinformatics, mathematical physics, mathematical ecology, computational science and visualisation, and nonlinear differential equations.

Physics
Study fundamental natural laws and demonstrate how and why things work at scales ranging from the sub-nuclear, through the everyday, and onto the entire cosmos. Gain advanced knowledge in areas such as quantum physics and astrophysics using experimental, theoretical and computational methods. This field is designed for students who have a substantial background in physics at the undergraduate level.

Statistics
Statistics is the scientific application of mathematical principles to the collection, analysis, and presentation of numerical data. Statisticians contribute to scientific inquiry by applying their mathematical knowledge to the design of surveys and experiments, collection, processing, and analysis of data and interpretation of the results. Gain the theory and practical experience in the use of popular statistical and data analysis packages, as well as applied and theoretical statistics and probability theory. You will develop advanced skills in modern statistics so you can graduate ready to embark on a career as a professional statistician.

Practical experience
UQ maintains long-standing links with industry and government partners. You will be able to apply your gained knowledge on a range of collaborations, including research projects externally and within our research centres, commercialisation ventures, and industry placements and internships. Carry out research projects with staff in various research centres such as the ARC Centres for Excellence for Engineered Quantum Systems, Quantum Computation and Communication Technology, Future Low-Energy Electronics Technologies, Mathematical and Statistical Frontiers, and Plant Success.

GRADUATE CERTIFICATE

Duration: 6 months full-time
Start semester: 1 (24 Feb 2020)
2 (27 Jul 2020)
Location: St Lucia
Program code: 5138
Your current qualification:
Mathematics field: Bachelor degree with mathematics major
Physics field: Bachelor degree with physics major
Statistics field: Bachelor degree with statistics major
UQ or equivalent GPA of 5.5 or above on a 7 point scale; or 5 years of work experience in the same field.

GRADUATE DIPLOMA

Duration: 1 year full-time
Start semester: 1 (24 Feb 2020)
2 (27 July, 2020)
Location: St Lucia
Program code: 5240
Your current qualification:
Mathematics field: Bachelor degree with mathematics major
Physics field: Bachelor degree with physics major
Statistics field: Bachelor degree with statistics major
UQ or equivalent GPA of 5.5 or above on a 7 point scale.

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

Many of our Mathematics graduates study higher degrees and go on to research positions at universities and other major research institutions. Statistics, operations research and financial mathematics are most often used in industry, with the number of mathematicians employed in banking, finance, insurance and risk management on the rise.

Our Physics graduates have robust, high-level analytical and problem-solving skills that are widely applicable and highly valued by a diverse range of employers including those in education, finance, engineering, computing and management. Many graduates are employed by governments in research and management positions, universities, health, research and nuclear physics.

Our Statistics graduates are in high demand in business, industry, research and government, where they are employed in areas such as quality control, product development, asset and liability management, and determining risks and returns of investments.

Graduates often find employment in areas such as:
- investment banking
- retail banking
- insurance and actuarial
- risk management in the electricity and mining sectors
- funds management.

This program also provides you with a pathway to PhD study.

“The lecturers and facilities here are outstanding, and the library is one of the best physical sciences libraries in the southern hemisphere.

The course provided me with great preparation for a PhD.”

Dr Jason Werry
Master of Science (Mathematics)
Urban and Regional Planning

Why Urban and Regional Planning at UQ?
Learn from Australia’s best planning practitioners; UQ’s planning program has been recognised by employers as delivering high-quality and job-ready graduates. Designed in consultation with industry, this program provides a balance of theoretical content and practical experience so you will graduate confident and well prepared for work. You will benefit from collaborative learning spaces, such as the $1.5 million Planning Studio. The studio features internet-connected pods that allow you to integrate maps, plans and computers while working together as a group and with external bodies to address real planning challenges. Tailor your program to match your career goals through practical and flexible elective courses.

What you will study
Throughout your studies you will gain advanced knowledge of strategic structural and statutory approaches to improve built and natural environments. You will address current problems facing cities and discuss the needs and capabilities for the future. Courses cover the legislative frameworks controlling land use, address key issues in resource management and environmental planning, examine the role of communities in planning processes, and explore the design dimension of urban planning. To add to your industry knowledge, many of our courses feature practical project work that fits within a wider intellectual framework of design and public policy.

Sample courses:
• Strategic Planning: Theory & Practice
• Climate Change & Environmental Management
• Community Planning & Participation
• Applied Demography
• Transport Planning
• Planning Practicum

Practical experience
Develop your problem-solving and communication skills during the Planning Practicum course. In your second year of study you will have the opportunity to undertake 200 hours of work place experience in a planning organisation in Australia or overseas.

The Understanding Development Complexities course will take you on a 2-week field trip to the Asia-Pacific region where you will explore poverty alleviation, governance structures, and the “politics of aid” and sustainable livelihoods.

Professional recognition
The Master of Urban and Regional Planning was the first masters level program in Queensland to be recognised by the Planning Institute of Australia (PIA).

Career opportunities
Employers seek UQ graduates for their ability to make environmentally, socially and economically sustainable decisions. You will find employment in a variety of roles in both public and private sectors, including:
• strategic and statutory planning
• regional development
• technology for planning
• spatial planning
• commercial and industrial development
• engineering and architectural applications
• heritage conservation
• land-use planning
• planning law
• resource management
• social and transport planning
• tourism
• urban design.

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

Duration:
6 months full-time
Start semester: 1 (24 Feb 2020)
2 (27 Jul 2020)
Location: St Lucia
Program code: 5068
Your current qualification: Bachelor degree in any field, with UQ or equivalent GPA of 4 or above on a 7 point scale; or 2 years of work experience in the same discipline.

Duration: 1 year full-time
Start semester: 1 (24 Feb 2020)
2 (27 Jul 2020)
Location: St Lucia
Program code: 5116
Your current qualification: Bachelor degree in any field; or Graduate Certificate in Urban and Regional Planning. UQ or equivalent GPA of 4.5 or above on a 7 point scale.

Duration: 2 years full-time
Start semester: 1 (24 Feb 2020)
2 (27 July 2020)
Location: St Lucia
Program code: 5559
Your current qualification: Bachelor degree in any field; or Graduate Certificate or Graduate Diploma in Urban and Regional Planning. UQ or equivalent GPA of 4.5 or above on a 7 point scale.

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

The program provided a taste of varying aspects of planning – history of the formation of cities, transportation planning, natural resource management, and much more.

It was well structured with a host of core subjects, but also allowed me to pursue personal interests such as development planning and the provision of inner city green spaces.”

Theresa Fullteron
Master of Urban and Regional Planning
Veterinary Science

**Why Veterinary Science at UQ?**
UQ produces veterinarians who are in high demand across the world. Developed by UQ’s specialist academics in consultation with industry, this program will expose you to the latest research developments to ensure you receive the most relevant, up-to-date knowledge and practical expertise to put you at the forefront of the veterinary profession.

You will access UQ’s world-class animal science facilities, including the $100 million veterinary science facilities with its veterinary laboratory services, a small animal hospital, an equine specialist hospital and an animal genetics laboratory.

**What you will study**
The program trains veterinarians to become veterinary pathologists and improve their research activity.

**Sample courses:**
- Epidemiological and Research Methods for Animal and Veterinary Biosciences
- Diagnostic Pathology
- Graduate Research Project.

**Fields of study**
**Veterinary Diagnostic Pathology**
Based upon the pathology and modern fields of immunopathology, molecular pathology as well as molecular biology, you will develop your understanding of the pathogenesis of diseases and improve your diagnosis techniques for the purposes of disease control, prevention and public health.

**Practical experience**
Through a two-semester research project in the area of veterinary pathology and infectious disease, you will increase your technical and research skills working with the university’s researchers and academics.

**Career opportunities**
As a Veterinary Diagnostic Pathologist, you will be qualified to work in the diagnosis of animal diseases, as well as in teaching and research. You may work in:
- diagnostic laboratories (including private or government owned laboratories, contract laboratories, zoos or wildlife agencies),
- academic institutions, industry (pharmaceutical, biotechnological, chemical) or
- government agencies dealing with animal disease control.

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**Jee Young Oh**
Master of Veterinary Science

“UQ is known as a university with diverse programs and great facilities – even in my home country of Korea.

The veterinary science facilities at UQ are excellent and I believe it would be hard for other universities to compete with that.”

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

Develop your area of specialisation in science and create real impact.

Why a Master of Philosophy at UQ?
A Master of Philosophy (MPhil) is a higher degree by research that involves undertaking a significant research project. You will have the opportunity to develop and enhance your analytical and research skills through independent investigation in a specific field.
Many Master of Philosophy students choose to continue with their research to obtain a Doctor of Philosophy (PhD).

What you will study
You will learn how to formulate a significant problem and conduct articulate and critical analyses. You will also develop a mastery of appropriate conceptual and methodological frameworks. Your completed master’s thesis is evidence of your significant research contribution – the culmination of 1.5 to two years’ full-time equivalent study and research training.

Careers: Many graduates enjoy careers where they can put their advanced research skills into practice to create better outcomes for business and society. Many also continue their studies to earn PhD qualifications.

International students:
English proficiency
IELTS overall 6.5
reading 6
writing 6
speaking 6
listening 6
For more information visit graduate-school.uq.edu.au/english-language-proficiency-requirements

For more information
graduate-school.uq.edu.au
Doctor of Philosophy

Become an expert in your field.

**Doctor of Philosophy**

- **Duration:** 6-8 semesters*
- **Commencement:**
  - Research Quarter 1 (January)
  - Research Quarter 2 (April)
  - Research Quarter 3 (July)
  - Research Quarter 4 (October)
- **Prior study:**
  - To meet the Graduate School admissions requirements for a PhD, applicants must provide evidence of one of the following:
    - A bachelor’s degree with honours class IIA or equivalent from approved universities, which includes a relevant research component.
    - A research master’s degree.
    - A coursework master’s degree and an overall GPA (grade point average) equivalent to 5.65 on the 7-point UQ scale, which includes a relevant research component.
    - A postgraduate degree of at least one year full-time equivalent with an overall GPA equivalent to 5.0 on the 7-point UQ scale, together with demonstrated research experience equivalent to honours IIA will be considered on a case-by-case basis.
- A bachelor’s degree plus at least two years of documented relevant research experience, including research publications.

* Part-time study available for domestic students under approved circumstances.

**Why a Doctor of Philosophy at UQ?**

This program provides you with research training and fosters the development of your independent research skills. These skills include the capacity to formulate a significant problem, master appropriate conceptual and methodological skills, and relate your research topic to a broader framework of knowledge in the relevant disciplinary area. The doctoral thesis provides evidence of your contribution to knowledge with a level of originality consistent with three to four years’ full-time study and research training.

In addition to enhanced employment prospects, you will also benefit from meaningfully advancing the research and knowledge in your chosen field. Your PhD proves you are capable of completing a complex project at a world-class standard.

**What you will study**

You will be required to produce a thesis based on research that represents a significant new contribution to your discipline. This thesis should be no more than 80,000 words.

You will work with an adviser throughout your PhD studies. Your adviser is an expert within your relevant UQ school or institute who becomes your mentor and guides you through your candidature, while helping you realise your academic potential.

**Careers:**

Graduates enjoy a wide range of career opportunities in industry and academia. You will have access to the UQ Career Development Framework, a training initiative developed exclusively for PhD students. The framework will prepare you for your chosen career and stimulate greater interaction between you and your fellow students, industry, alumni and potential employers. You will emerge as a more experienced and globally aware graduate.

Participation in the Career Development Framework will accelerate your career development and you will benefit from cross-disciplinary dialogue and collaboration as well as enhance your employability.

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**International students:**

- English proficiency
  - IELTS overall 6.5
  - reading 6
  - writing 6
  - speaking 6
  - listening 6

For more information visit graduate-school.uq.edu.au/english-language-proficiency-requirements

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“My PhD journey at UQ’s School of Chemistry and Molecular Biosciences has prepared me for a smooth transition from study to work by empowering me with essential laboratory, technical and communications skills needed to succeed in the workplace”

Loan Nguyen
Doctor of Philosophy (Animal Genetics)
Apply for a scholarship

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

There are a broad range of scholarships offered to postgraduate students. From academic to equity, sporting and more, you’ll be surprised by the options available.

We strongly encourage you to take some time to research and apply.

The following are a selection of scholarships available to international students. More options for domestic and international students are available online.

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

Career development

We offer an employability development program for postgraduate coursework students that takes you through the steps to successfully launch your career. Throughout semester, you can attend workshops on topics such as using LinkedIn to expand your network, crafting strong job applications, and interview techniques. You can also book an individual appointment with the Science Career Development Adviser to review your CV/resume, prepare for interviews, and address your career questions.

Get in early

Scholarship applications close at different times of the year – plan your response and apply early so you don’t miss out!

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

Proactively build your employability with tailored programs and individual consultations that will make you stand out to employers during and on completion of your study. We partner with external employers, alumni, businesses, government and community organisations to create learning and engagement opportunities, including industry placements and internships. Some of the programs you can take advantage of as a UQ student include:

Chemistry and Molecular Biosciences Indian Scholarship

Awarded to outstanding students from India commencing postgraduate coursework in Biotechnology, Molecular Biology or Bioinformatics, based on academic merit and interest in this field.

Award value: 50% of tuition fees

Chemistry and Molecular Biosciences Latin American Scholarship

Awarded to outstanding students from Latin America commencing postgraduate coursework in Biotechnology, Molecular Biology or Bioinformatics, based on academic merit and interest in this field.

Award value: 50% of tuition fees

International Scholarship in Conservation Biology

Awarded to international postgraduate students who are accepted into the Master of Conservation Biology or Conservation Science programs. Applicants must have achieved an overall GPA of 5 or above in their undergraduate program.

Award value: up to $10,000 AUD across 12 months

For more information

scholarships.uq.edu.au

For more information

employability.uq.edu.au/find-a-job

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

For more information

employability.uq.edu.au/find-a-job

Student Experience

Explore the diverse and exciting range of opportunities to develop your professional, research, and leadership capabilities.

Proactively build your employability with tailored programs and individual consultations that will make you stand out to employers during and on completion of your study. We partner with external employers, alumni, businesses, government and community organisations to create learning and engagement opportunities, including industry placements and internships. Some of the programs you can take advantage of as a UQ student include:

Leadership and Mentoring Program in Science (LaMPS)

Develop your leadership and mentoring capabilities through a series of online modules, on-campus workshops and events, and a residential camp. Learn about the psychology of leadership theory, emotional intelligence, the difference between leadership and management, how to lead yourself and others, and peer mentoring.

LaMPS runs in Semester 2 each year and provides a pathway into the Science Leaders Academy.

Science Leaders Academy

Develop your employability and leadership through a range of opportunities exclusive to the Science Leaders Academy. You will have opportunities to welcome and mentor new students, attend leadership workshops and events, participate in committees, interact with researchers and industry, and contribute to the UQ Science community. Some of these opportunities are paid.

Entry to the Science Leaders Academy is by application and interview in February each year. We strongly encourage you to complete LaMPS before applying.
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 a:
• temporary resident (visa status) of Australia
• permanent resident (visa status) of New Zealand, or
• resident or citizen of any other country.

Tuition fees
UQ has program-based fees for coursework programs, meaning that all courses within a program are charged at the same tuition fee rate per unit for a given academic year.

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

Other expenses
All international students applying to study in Australia must have a student visa and study full-time on campus. Please consider expenses such as visa and medical (predeparture) fees, tuition fees, general living expenses, return airfares, and Overseas Student Health Cover (OSHC) when you plan your budget.

homeaffairs.gov.au

Services
When you arrive, UQ representatives can meet you at the airport and then help you organise orientation and academic preparation sessions. International student advisers can help you quickly settle into life as a UQ student and can also answer your questions about health services, family matters, schooling or child care, social events, and cultural or religious organisations.

future-students.uq.edu.au/student-support/accommodation

Scholarships
Visit UQ’s Scholarships website to view the range of scholarships available.

scholarships.uq.edu.au

Applying to UQ
For instructions on how to apply to UQ, go to

future-students.uq.edu.au/apply.
study@uq.edu.au
+61 3 8676 7004 (outside Australia)
1800 671 980 (within Australia)

NOTE: Some UQ programs require a higher level than the standard English language entry requirements. See individual program entry requirements for specific English language proficiency requirements.

Studying at UQ is a fulfilling experience as you have the opportunity to gain so much knowledge from so many brilliant minds – professors, researchers, industry experts and your fellow classmates.

The supportive multicultural environment at UQ has helped me adapt to the diverse working environment in the UN.”

Shaoxin Li
Master of Environmental Management

ENGLISH language proficiency – ALTERNATIVE TESTS AND SCORES

<table>
<thead>
<tr>
<th>TEST/SYSTEM</th>
<th>OVERALL SCORE*</th>
<th>PLUS ADDITIONAL SCORE</th>
</tr>
</thead>
<tbody>
<tr>
<td>International English Language Testing System (IELTS) test</td>
<td>6.5</td>
<td>6 (in each sub-band)</td>
</tr>
<tr>
<td>Test of English as a Foreign Language (TOEFL):</td>
<td></td>
<td></td>
</tr>
<tr>
<td>– paper-based TOEFL</td>
<td>570</td>
<td>54 (listening and reading)</td>
</tr>
<tr>
<td>– Internet based TOEFL</td>
<td>87</td>
<td>21 (writing), 19 (speaking, listening and reading)</td>
</tr>
<tr>
<td>– Cambridge English Scale (CES)</td>
<td>176</td>
<td>169 (in each band)</td>
</tr>
<tr>
<td>– Pearson Test of English (PTE) Academic</td>
<td>64</td>
<td>60 (in each band)</td>
</tr>
</tbody>
</table>

* Test scores are valid for two years from the date of the test to the date of commencing the UQ program.
** TOEFL paper-based Writing test consists of two scores: Structure & Written Expression (graded 31–68) and the Test of Written English (graded 0–6).

The information above outlines the standard English language entry requirements for most UQ programs. Most programs in the Health disciplines require a higher level; please see individual program entry requirements for specific English language proficiency requirements. Information is correct as at March 2018 and is subject to change. Please refer to future-students.uq.edu.au/applying/english-language-proficiency-requirements for current English Language requirements.
Applying to UQ

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

**Applying to UQ**

**Domestic* Students**

**STEP 1**

Choose

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

**STEP 2**

Apply

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

**STEP 3**

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.

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* 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.

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

STEP 4
Submit your application

- 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.

- 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.
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
The information in this Guide is accurate 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$) except where otherwise indicated.
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