postgraduate coursework programs in biotechnology

The growing demand on resources from an increasing global population means that there are many career opportunities for skilled and experienced scientists in the biotechnology industry.

Research and development managers need savvy scientists with core technical skills, combined with knowledge of commercial imperatives and current regulatory environments.

Choose postgraduate study in biotechnology to update your scientific technical skills and knowledge in core areas such as molecular biology, intellectual property management and quality systems management, and to acquire research laboratory experience. The programs are also suitable if you are a legal or business professional with some scientific background and want to learn about the latest technological developments.

During your studies you will receive comprehensive training in the scientific disciplines underpinning the biotechnology industry and research, through advanced lectures, projects and directed study.

You will develop skills in research methodology, as well as training in the special requirements to undertake research in the biotechnology industry. You will also have the opportunity to undertake a biotechnology research project.

You will graduate with a thorough understanding of a broad range of modern biotechnologies, the commercialisation of products and marketing, the business environment including business planning and project management, and how research and development are undertaken in industry settings.

UQ Advantage
You will receive extensive hands-on laboratory experience and practical product development skills, while learning cutting-edge theory and research from some of Australia’s leading educators in biotechnology.

The Master of Biotechnology program is recognised in the United States as a Professional Science Masters Program.

Commencing:
Semester 1 or Semester 2
Location:
St Lucia
Delivery Mode:
Internal

www.uq.edu.au/study
Career opportunities
Postgraduate study in biotechnology will enhance your career opportunities in a variety of industry, research and service sectors, including health, agriculture, diagnostics, the environment, intellectual property management, and technology commercialisation. You can pursue a career in areas such as:

- agriculture – including plant breeding and engineering;
- nanotechnology and biosensor applications;
- diagnostic companies – including diagnostic test design, development and production;
- government agencies as a technology I.P. analyst or commercialisation specialist;
- legal and consulting companies as a business plan analyst;
- pharmaceutical companies – including drug design and development or pharmaceutical production, as well as research institutes, universities or in industry;
- venture capital companies.

Program structure
Graduate Certificate in Biotechnology
- 8 units (half year full-time or part-time equivalent)

Graduate Diploma in Biotechnology
- 16 units (1 year full-time or part-time equivalent)

Master of Biotechnology
- 16 units (1 year full-time or part-time equivalent)
- 24 units (1.5 years full-time)

Master of Biotechnology; and Master of Biotechnology Research Extensive
- 24 units (1.5 years full-time or part-time equivalent)
- 32 units (2 years full-time or part-time equivalent)

Sample course list
- Emerging biotechnologies
- Introduction to biotechnology
- Quality management systems
- Molecular biology laboratory
- Biologics
- Drug discovery and development
- Immunology and infectious diseases

Entry requirements
Graduate Certificate in Biotechnology
Bachelor degree in any field, with a GPA of 4.5 or above on a 7 point scale; or 2 years work experience in the same discipline.

Graduate Diploma in Biotechnology
Bachelor degree in any field or Graduate Certificate in Biotechnology; with a GPA of 4.5 or above on a 7 point scale.

Master of Biotechnology (#16)
An approved equivalent Bachelor degree (Honours) in Biotechnology, Science, Bioinformatics, Pharmacy or Engineering (particularly chemical engineering), Information Technology (IT); or an undergraduate or postgraduate qualification in an approved discipline incorporating a major research project or other significant research experience; GPA of 5 or above on a 7 point scale.

Master of Biotechnology (#24)
An approved equivalent Bachelor degree in Biotechnology, Science, Bioinformatics, Pharmacy, Agriculture, Medicine, Engineering (particularly chemical engineering), Information Technology (IT); or a Graduate Diploma in Biotechnology; with a GPA of 5 or above on a 7 point scale.

Master of Biotechnology (#32)
Bachelor degree in any discipline; or a Graduate Diploma in Biotechnology; with a GPA of 5 or above on a 7 point scale.

Master of Biotechnology Research Extensive (#32)
An approved equivalent Bachelor degree in Biotechnology, Science, Bioinformatics, Pharmacy, Agriculture, Medicine, Engineering (particularly chemical engineering), Information Technology (IT); or an approved discipline; or a Graduate Diploma in Biotechnology.

How to apply
Information about application procedures can be found at: www.future-students.uq.edu.au/apply

Time of publication: Every effort has been made to ensure the accuracy of information in this document at the time of publication. The authoritative source of program and course information is the UQ Courses and Programs website at uq.edu.au/study. Where any conflict of information exists, the rules and associated course lists approved by the UQ Senate shall apply.

“I chose UQ because of the flexibility of the Biotechnology program. Though it is a course-work degree, students have the freedom to choose research components within any of UQ’s seven research institutes. This provides access to a diverse range of research opportunities within the Biotechnology spectrum. The structure of the program is very student friendly and I wanted to pursue my higher studies at UQ when I realised this. UQ values innovation and encourages students to experiment and innovate.”

Maany Ramanan
Postgraduate Coursework in Biotechnology graduate

Enquiries – International applicants
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