Biotechnology - the technology that uses scientific knowledge about living things to make products or to solve problems - is a fast-expanding industry with a tremendous demand for experienced people at research, management, and regulatory levels.

Research and development managers need savvy scientists with core technical skills, 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.

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

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
• Venture capital companies

Program structure

Graduate Certificate in Biotechnology
• 8 units (0.5 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)
• 32 units (2 years full-time)

Master of Biotechnology Research Extensive
• 24 units (1.5 years full-time)
• 32 units (2 years full-time)
Sample courses
• Emerging Biotechnologies
• Issues in Biotechnology
• Quality Management Systems in Biotechnology
• Introduction to the Molecular Biology Laboratory
• Biologics
• Drug Discovery and Development
• Immunology and Infectious Diseases

Entry requirements
Graduate Certificate in Biotechnology
Program code 5013
CRICOS Code: 034026J
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.

Graduate Diploma in Biotechnology
Program code 5119
CRICOS Code: 034052G
Bachelor degree in any field or Graduate Certificate in Biotech, with UQ or equivalent GPA of 4.5 or above on a 7 point scale.

Master of Biotechnology (#16)
Program code 5386
CRICOS Code: 057055C
An approved equivalent Bachelor degree (Honours) in Biotechnology, Science, Bioinformatics, Pharmacy, Engineering; or a 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.

Master of Biotechnology (#24)
Program code 5599
CRICOS Code: 082611E
Bachelor degree in any field, with UQ or equivalent GPA of 5 or above on a 7 point scale; or Graduate Certificate or Graduate Diploma in Biotechnology

Master of Biotechnology Research Extensive (#24)
Program code 5626
CRICOS Code: 085549D
An approved equivalent Bachelor degree (Honours) in Biotechnology, Science, Bioinformatics, Pharmacy, Engineering; or a 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.

Master of Biotechnology Research Extensive (#32)
Program code 5627
CRICOS Code: 085552J
An approved equivalent Bachelor degree in Biotechnology, Science, Bioinformatics, Pharmacy, Agriculture, Medicine or Engineering, with UQ or equivalent GPA of 5 or above on a 7 point scale.

International Students: English Proficiency
IELTS overall 6.5; writing 6, reading 6, speaking 6, and listening 6. For other English Language Proficiency Tests and Scores approved for UQ, view the English proficiency policy at http://future-students.uq.edu.au/applying/english-language-proficiency-requirements.

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

MAANY RAMANAN Biotechnology graduate
Since I was from India where the educational system was completely different, I found the lectures and the assignments initially daunting. I approached some of my professors and they offered to help me out with understanding the system better.
It didn’t take me more than a couple of weeks to get used to it. The research opportunities have a wider spectrum at UQ with so many different areas to choose from. I realised that UQ values innovation and students get to experiment and innovate, which attracted me.

LEADING RESEARCH
Ninety five percent of UQ’s broad fields are now above or well-above world standard, and none are below (2015 Excellence in Research for Australia (ERA) assessment)

INTERNATIONAL REPUTATION
UQ is one of only three Australian members of the global Universitas 21, a founding member of the Group of Eight (Go8) universities, and a member of Universities Australia

ESTEemed TEACHERS
More national teaching awards than any other Australian University

GLOBAL LEADER
Ranked in the top 50 in the world overall (QS World University Rankings, 2015-2016)

SUCCESSFUL GRADUATES
UQ graduates enjoy full-time employment rates and salaries higher than the national average

WORLD-CLASS FACILITIES
Access state-of-the-art laboratories and research facilities

VIBRANT CAMPUSES
Dynamic on campus environment, with over 190 sporting and cultural clubs and societies

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