Advances in molecular biology have transformed biological research and driven the extensive growth in the biotechnology industry. These rapid increases in molecular medicine and technology have created a high demand for skilled molecular biologists across the world.

Molecular biology studies the structure and function of genes and the proteins they encode, including genome sequencing, recombinant DNA technology and macromolecular structure determination.

Molecular biology is used to understand the interactions between the systems of a cell, including interactions between DNA, RNA and protein biosynthesis and how these interactions are regulated.

Our postgraduate programs will give you advanced theoretical and practical training in molecular biology through lectures, workshops, extended research projects and directed study.

You will also be trained in research methodology in molecular biology and have the opportunity to undertake a major individual research project. The molecular biology suite of programs is highly flexible to ensure that your previous study, experience, and interests are catered for.

**Career opportunities**

Career opportunities span a range of industries including:
- Biotechnology
- Food manufacturing and processing
- Pharmaceuticals
- Environment/government
- Pathology and hospital laboratories
- Research laboratories
- Research higher degree
- Science communication (journalism)

**Program structure**

**Graduate Certificate in Molecular Biology**
- 8 units (0.5 year full-time or part-time equivalent)

**Graduate Diploma in Molecular Biology**
- 16 units (1 year full-time or part-time equivalent)

**Master of Molecular Biology**
- 16 units (1 year full-time or part-time equivalent)
- 24 units (1.5 years full-time or part-time equivalent)
- 32 units (2 years full-time or part-time equivalent)

**Master of Molecular Biology Research Extensive (#24)**
- 24 units (1.5 years full-time or part-time equivalent)

**Master of Molecular Biology Research Extensive (#32)**
- 32 units (2 years full-time or part-time equivalent)

**UQ is ranked well above world standard in BIOLOGICAL SCIENCES.**

*2015 Excellence in Research for Australia (ERA) assessment*
CHRIS WEIR  Molecular Biology graduate

Chris Weir had offers to study and had visited other top universities overseas, but chose UQ for his postgraduate coursework because of its reputation and its cultural diversity. He had offers to do graduate studies at Sydney, Melbourne and Monash Universities, but chose UQ partly because of the way my Master of Molecular Biology program was structured and because I could see that it would prepare me well if I wanted to pursue doctoral studies.

My program involved both advanced coursework and research. The equipment I used is better than many other places I have visited, and the staff are very professional, approachable and respectful of cultural, religious and gender diversity. I can honestly say that UQ’s reputation in science is well-deserved.

After graduating from the Master program, Chris was awarded a prestigious PhD candidature at the Walter and Eliza Hall Institute of Medical Research.

Sample courses

- Introduction to the Molecular Biology Laboratory
- Advanced Genomics and Bioinformatics
- Advanced Molecular Biology Laboratory
- Advanced Protein Technology
- Immunology and Infectious Diseases

Entry requirements

Graduate Certificate in Molecular Biology
Program code 5042
CRICOS Code: 034030B
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 Molecular Biology
Program code 5127
CRICOS Code: 034053D
Bachelor degree in any field or Graduate Certificate in Molecular Biology; with UQ or equivalent GPA of 4.5 or above on a 7 point scale.

Master of Molecular Biology (#16)
Program code 5388
CRICOS Code: 057054D
An approved equivalent Bachelor degree in Genetics, Molecular Biology, Biochemistry; or 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.

Master of Molecular Biology Research Extensive (#24)
Program code 5600
CRICOS Code: 082612D
Bachelor degree in any field or a Graduate Certificate or Graduate Diploma in Molecular Biology, with UQ or equivalent GPA of 5 or above on a 7 point scale.

Master of Molecular Biology Research Extensive (#24)
Program code 5624
CRICOS Code: 085547F
An approved equivalent Bachelor degree (Honours) in Genetics, Molecular Biology, Biochemistry, Biotechnology or Biological Chemistry; or 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.

Master of Molecular Biology Research Extensive (#24)
Program code 5625
CRICOS Code: 085548E
An approved equivalent Bachelor degree in Genetics, Molecular Biology, Biochemistry, Biotechnology, Biological Chemistry or an approved discipline; or a Graduate Certificate or Graduate Diploma in Molecular Biology. 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.

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