

## Biotechnology MSc

This course is designed for bioscience graduates who wish to further their careers in biotechnology by extending their current qualifications and experience. The one-year course involves two semesters of taught modules followed by a semester of project work.

The taught course modules include theoretical, practical and applied elements of biotechnology and provide the opportunity for students to specialise in areas such as plant, animal (including human) and microbial biotechnology.

Students may select one of two optional project structures. The first, for those who wish to use the MSc

award as a stepping stone to a research career, involves a specialised research project, often taken in a research institute or biotechnology company outwith the University. The second option offers practical investigative skills encompassing a broad range of cellular and molecular biological, analytical and data processing systems and is recommended for students who wish to maximise their potential for employment or further study.

Those exiting the course after successful completion of the taught component (i.e. Postgraduate Diploma) would be eligible for the award of Postgraduate Diploma (PGDip) Biotechnology.

### What you study

The core themes of the course are molecular biology, bioinformatics, the application of biotechnology in an industrial context, experimental analytical biotechnology and review modules on subjects chosen by students. Optional specialist modules include genome structure and function, animal cell biology, human molecular genetics, plant biotechnology and microbial biotechnology.

### How you learn

An integrated programme of lectures, tutorials, seminars, laboratory assignments and case studies are used to enhance your knowledge and understanding. Both the research and investigative project routes are designed to allow you to apply your studies in a new context.

### How you are assessed

A combination of written submissions, seminar and webpage presentations, laboratory reports and formal examinations are used throughout the programme with the most appropriate form of assessment being chosen for the topics being assessed.

Course Length	12 months (full-time)
Places Available	Approx 60
SCQF Level	11

### Key information

#### Entrance Requirements

Applicants should normally have an Honours degree in a biological science with a significant cellular or molecular biology component, although those holding an acceptable equivalent qualification and/or experience will be considered.

#### Want to know more?

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#### Related courses

MSc Food Biotechnology p97

MSc Environmental Biotechnology p94

### Key features

- Develop a personalised course syllabus by choosing optional modules, and by selecting subjects within some modules
- Structured programme of case studies and visits to research laboratories in institutes and companies in the biotechnology sector
- Opportunity to undertake a five-month research project in a 'world class' institute, company or university laboratory



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