

Bioinformatics MSc

There is a growing demand for scientists with the ability to analyse biological data by means of state of the art information technology and this course presents the cutting edge of this new discipline. The course brings together modern quantitative and computer-aided techniques to the study of biological processes. Whether you are interested in drug design, gene expression profiling, microarrays, manipulation of databases, analysis of genome data or gaining expertise in an

essential skill of the modern bioscientist then this course is for you.

The taught stage of the course is followed by a four-month full-time bioinformatics research project leading to the MSc Bioinformatics award.

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) Bioinformatics.

What you study

The study programme is designed for graduates in the biological sciences. The core themes of the course are: molecular biology; bioinformatics and information technology. The topics covered include genomics; proteomics; structural and functional bioinformatics; database management and programming & computational techniques for biological data analysis.

How you learn

An integrated programme of lectures, tutorials, seminars and guided studies are used to enhance your knowledge and understanding and enable you to make rapid progress in gaining effective skills in bioinformatics. The research project is designed to allow you to apply the theoretical and practical knowledge gained in the taught modules to a particular biological problem.

How you are assessed

A combination of coursework assignments, presentations, information assignments and formal examinations are used throughout the course with the most appropriate form of assessment being chosen for the topics being assessed.

Course Length	12 months (full-time)
Places Available	Approx 20
SCQF Level	11

Key information

Entrance Requirements

Applicants should normally have an Honours degree in a bioscience discipline. Applicants holding an acceptable equivalent qualification, substantial relevant experience or membership of a relevant professional body are also encouraged to seek entry to this course.

Want to know more?

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Key features

- Provides biosciences students with integrated practical and theoretical knowledge of the application of bioinformatics tools to particular biological problems
- Four-month project allows students to work in an industrial or research laboratory environment



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