

**MSC/PGDIP**

# **Industrial Biotechnology**

including 10-week internship

# MSc Industrial Biotechnology

IBioIC's collaborative MSc in Industrial Biotechnology is an exciting opportunity for science and engineering graduates who are looking for a career in an emerging industry that is sustainable, green and essential to the global economy.

The course is taught and awarded by the University of Strathclyde, offers a competitive 10-week internship and combines modular teaching from HEIs across Scotland, including:

- University of Edinburgh
- University of Glasgow
- Heriot-Watt University
- Abertay University
- Scottish Association for Marine Science (SAMS)
- Glasgow Caledonian University

Our course is at the forefront of developments in science and engineering, providing you with a strong foundation in industrial biotechnology as well as learning advanced state-of-the-art topics in a range of related areas.



## Class Profile

This course attracts recent graduates and early-career professionals from engineering, chemistry, biology and applied science subjects, from the UK, EU and further afield. All recognise the opportunity this transformative sector affords and seek the knowledge to apply IB to within their discipline.

*“The experience I gained from my industrial placement had a significant influence in me acquiring my PhD studentship.”*

**BLAIR MACKIE, 2017/18**



## Taught Content

The course includes a range of compulsory core classes and optional electives to ensure graduates have a grounding in essential knowledge and the opportunity to tailor the course to a preferred career path.

### Core classes include:

- **Bioprocessing**  
(University of Strathclyde)
- **Applied Biocatalysis**  
(University of Strathclyde)
- **Synthetic Biology**  
(University of Glasgow)
- **Downstream Processing**  
(Heriot-Watt University)
- **Big Data Fundamentals**  
(University of Strathclyde)
- **Introduction to Bioinformatics for Life Scientists**  
(University of Edinburgh)

### Elective classes include:

- **Analysis and Shaping of the Bioeconomy**  
(University of Edinburgh)
- **Blue Biotechnology**  
(SAMS, University of the Highlands & Islands)
- **Renewable Energy Technologies**  
(Abertay University)
- **Circular Economy and Transformations Towards Sustainability**  
(University of Strathclyde)
- **Project Management**  
(University of Strathclyde)
- **Food Microbiology and Biotechnology**  
(Glasgow Caledonian University)
- **Food Commodities and Sustainability**  
(Glasgow Caledonian University)
- **Understanding the Regulatory Environment of Bioprocessing Industries**  
(Glasgow Caledonian University)

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## Careers

Our students enjoyed successful placements with the following companies:

- GSK
- Devro
- Marine Biopolymers
- Ingenza
- Unilever
- CelluComp
- Scottish Water Horizons

As a result of the MSc experience and particularly the industrial placement, at least 85% of our recent cohorts have secured full-time jobs within the biotechnology sector or have undertaken further postgraduate study.

*“I was pleased to be offered a permanent role as a Bioprocess Engineer with ScotBio following my industrial placement, and I now lead on the downstream processing part of their production”*

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**ALEXANDROS ZOULIATIS, 2017/18**

## Biotechnology Research Project (MSc only)

The project will typically be based with one of IBioIC's industrial or academic partners and be supervised by both an industrial and academic supervisor. The internship will last a minimum of 10 weeks, and students will work on a sector-relevant project gaining invaluable experience in a key area of biotechnology.

## Site Visits

To enhance your learning, students can take part in industry site visits, experiencing the industrial biotechnology sector first-hand in a variety of organisations from SME's to Multinationals.

## Career Support

Students undertaking IBioIC's MSc in Industrial Biotechnology will have access to a wealth of career support.



## Duration of Course

MSc: 12 months full-time  
PgDip: 9 months full-time

## Entry Requirements

First- or upper second-class Honours degree in biology, biotechnology, chemistry, chemical engineering or a related subject.

Other qualifications and industrial experience may be considered.

**English language:** IELTS 6.5 is required for all non-English speakers.

## Fees and Funding

For information on current fee levels, see: [www.strath.ac.uk/tuitionfees](http://www.strath.ac.uk/tuitionfees)

This course is fully funded to Scottish/EU applicants.

A number of scholarships are available for outstanding UK, EU and international applicants. For details, please visit [www.strath.ac.uk/studywithus/scholarships](http://www.strath.ac.uk/studywithus/scholarships)

## Further Information and How to Apply

For further information and how to apply, please visit [www.strath.ac.uk/courses/postgraduatetaught/industrialbiotechnology](http://www.strath.ac.uk/courses/postgraduatetaught/industrialbiotechnology)

For informal enquires, please contact the Skills Team on (+44 (0) 141 574 5376) or email: [skills@ibioic.com](mailto:skills@ibioic.com)

[www.ibioic.com](http://www.ibioic.com)



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