
MSc (by research) in Biophotonics

www.nottingham.ac.uk/eee



The course's aim is to prepare physical scientists, life scientists and engineers to work in the rapidly expanding disciplines of biophotonics and imaging. For those with a background in the Biological Sciences, emphasis will be placed on the quantitative methods that now play a crucial role in the development of biology.

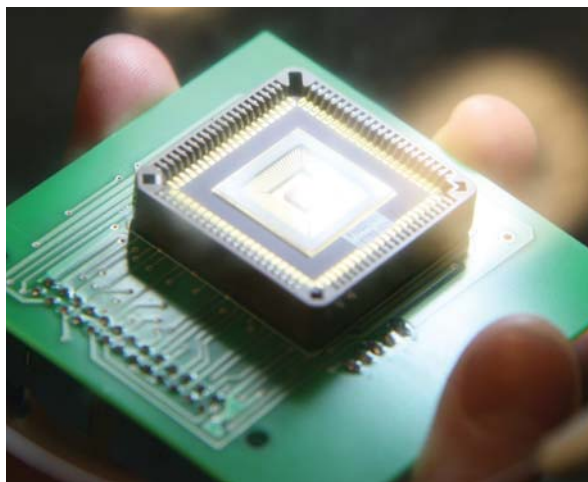
Students with previous experience in engineering or physics will be tutored in the challenges of working at the interface with biology.

In addition to a sound knowledge of interdisciplinary science, students will develop:

- key skills enabling them to communicate with researchers in other disciplines
- the ability to plan and undertake an individual project
- interpersonal, communication and professional skills
- the ability to communicate ideas effectively in written reports
- project management skills in relation to the scientific and technological aspects of the subject, including design, data collection and analysis
- critical and decision making skills

Postgraduate study

MSc (by research) in Biophotonics



Course structure

This masters course is taught on a full-time basis over one year and consists of 60 credits of taught modules and a 120 credit independent research project. Please be aware modules are subject to change.

Students with an Engineering or Physics background must take:
Introductory Cell Biology Autumn 10 credits

Students with a Biology background must take:
Communications Engineering Autumn 10 credits

Optional Modules - 50 credits

Autumn Semester
Instrumentation & Measurement 10 credits
Engineering Ultrasonics 10 credits

Spring Semester
Microscopy & Image Analysis 20 credits
Imaging Principles & Technology 20 credits
Digital Signal Processing for Telecommunications, Multimedia & Instrumentation 10 credits

Individual project

The individual research project is taken over the full year with guidance from an academic member of staff.

A previous research project on this course has been:

- Towards single photon detection with a practical EMCD

Funding opportunities

The Faculty offers a range of funding support for postgraduate courses, details of which can be found at:

www.nottingham.ac.uk/engineering/funding/postgraduate/funding

Details of other funding opportunities are available from the Graduate School at: www.nottingham.ac.uk/gradschool

Employment prospects

Students of this course will be well equipped to enter into roles in design and development within major international companies or government agencies, consultancy posts with leading contract consultant companies and move into successful academic careers.

Entry requirements

Applicants should have a 2:1 honours degree (or international equivalent) in a related subject from a recognised university.

English language requirements:

- IELTS score of at least 6.0 with a minimum score of 5.0 in individual elements
- TOEFL (paper based) score of at least 550 with a minimum of 4.0 in the writing element
- TOEFL (IBT) score of 79 no less than 17 in any element

Contact Us

If you are interested in this degree please apply through the University on-line application process at:

<https://pgapps.nottingham.ac.uk/>

For further details please look at the Department website: www.nottingham.ac.uk/eee