## Southampton

# MSc Photonic Technologies



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Our MSc Photonic Technologies programme offers students access to an excellent range of photonics equipment and materials technologies within a vibrant community of researchers, led by some of the leading figures in the field of photonics.

Working in our new, state-of-the-art cleanroom complex with access to our extensive range of optical laboratories, as part of the course you will work with leading local and national photonics companies, and see first-hand their products and emerging photonics technologies. Our broad programme will give you the solid intellectual foundation and hands-on practical and technical skills that you need for a successful professional career in science, engineering and related photonics-based industry, or to embark on further postgraduate research.

Our course is designed to ensure that all students are exposed to the key subject areas in photonics and its applications, including leading-edge topics that are driving the photonics agenda, such as metamaterials, microfabrication, nanophotonics, telecommunications and optical fibre fabrication.

### **Key facts**

Programme Director: Bill Brocklesby

**Entry requirements:** minimum upper second-class degree, or overseas equivalent, in a relevant subject (e.g. physics, electronics, engineering, materials science or mathematics)

**English language:** IELTS 6.5, with a minimum of 6.0 in each component; for information on other accepted English Language tests, please visit www.southampton.ac.uk/admissions\_language

Duration: one year (full-time)

Assessment: coursework, examinations and project

Start date: September

Applying: University application form with transcript

Closing date: none, but early application advised

Funding: scholarships available:

www.orc.southampton.ac.uk/sponsoredphd.html

Fees: www.southampton.ac.uk/pgfeesandfunding

For further information on this course, please search: ORC MSc Photonics

www.orc.southampton.ac.uk

#### **Typical Core Modules:**

Lasers

Microfabrication

Photonics laboratory and study skills

Solid State and Ultrafast lasers

Photonic Materials

Plasmonics, Metamaterials and nanophotonics

Project

#### Typical Optional Modules:

Light and Matter Silicon Photonics

and Advanced Materials

MEMS Sensors and Actuators