



MSc Optical Fibre
Technologies



MSc Optical Fibre Technologies

Many of the major developments in today's global optical fibre infrastructure were pioneered at the Optoelectronics Research Centre (ORC). These developments include the optical fibres and optical amplifiers that power the internet, a variety of optical fibre sensor technologies, and the fibre laser used for a range of applications in fields as diverse as manufacturing, medicine, and defence. In addition, several of these technologies were originally commercialised through spin-out ventures from the ORC.

Our MSc Optical Fibre Technologies programme offers a great opportunity to be taught, first-hand, by some of the world's leading experts on optical fibre technology in areas ranging from fibre design and fabrication, fibre telecommunication, fibre lasers, and fibre sensors including fibre devices such as gratings and tapers.

Our programme teaches the core concepts of these technologies and then focuses on their application in real-world settings via a series of specialist modules. These include a number of optional modules on Enterprise, Entrepreneurship and Innovation offered within the Southampton Business School, and a 4-month optical fibre laboratory-based project in the final semester, providing students with hands-on experience of cutting-edge research.

Key facts

Programme Director: Dr Morten Ibsen

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

Fees: www.southampton.ac.uk/pgfeesandfunding

Typical Core Modules:*

Optical Fibre Technology I
(Basics of optical fibres, light manipulation and transmission)

Optical Fibre Technology II
(Basics of optical amplifiers and CW fibre lasers)

Photonics Laboratory and Study Skills

Industry Showcase Week

4-month optical fibre laboratory-based project

Typical Optional Modules:*

Advanced Fibre Laser Technologies

Advanced Fibre Telecommunication Technologies

Fibre Optic Sensor Technologies

Enterprise, Entrepreneurship and New Business Venturing

Innovation and Technology Transfer

Global Entrepreneurship

**Subject to approval*

For further information on this course, please search: **ORC MSc Fibre**
www.orc.southampton.ac.uk