NANOTECHNOLOGY MSc / 2017/18 ENTRY

www.ucl.ac.uk/graduate/eleceng
This MSc is designed for graduates from the physical sciences and relevant engineering disciplines who wish to develop skills in this new and exciting area. Nanotechnology is rapidly establishing itself as a key technology, in industries ranging from microelectronics to healthcare, with a consequent demand for appropriately trained graduates.

### Degree structure

**Mode:** Full-time: 1 year; Part-time: 2 years  
**Location:** London, Bloomsbury  
Students undertake modules to the value of 180 credits. The programme consists of six core modules (75 credits), three optional modules (45 credits) and a research project (60 credits).

A Postgraduate Diploma (120 credits) is offered. The diploma consists of six core modules (75 credits) and three optional modules (45 credits).

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<th><strong>Degree</strong></th>
<th><strong>Module</strong></th>
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| CORE MODULES | - Physical Science for Nanotechnology  
- Nanoscale Processing and Characterisation for Advanced Devices  
- Instrumentation and Physical Techniques in the Life Sciences  
- Experimental Techniques for Nanotechnology  
- Nanotechnology and Society  
- Nanoelectronic Devices |
| OPTIONAL MODULES | - Quantum Computation and Communication  
- Order and Excitations in Condensed Matter  
- Molecular Biophysics  
- Molecular Physics  
- Entrepreneurship: Theory and Practice  
- Plastic and Molecular Electronics  
- Physics and Optics of Nano-Structures  
- Nanotechnology in Healthcare  
- Innovation Practices |
| DISSERTATION/REPORT | - All students undertake an extensive research project on an experimental or theoretical topic, which is assessed through two interim reports, a dissertation, and an oral examination. |
Your career
Recent graduates have gone on to work as engineers for companies including EDF Energy and Intel, as analysts and consultants for firms including Standard Bank PLC and DN Capital, or to undertake PhD study at the Universities of Oxford, Bath and Glasgow.

Employability
This MSc programme provides a broad and comprehensive coverage of the technological and scientific foundations of nanotechnology, from the basis of the fabrication of nanostructures for advanced device applications, to fundamental quantum information and molecular biophysics, from nanotechnology in life science to nanotechnology in healthcare, and from experimental technology to theoretical modelling. Nanotechnology MSc graduates are expertly equipped either to pursue PhD study or become consultants or engineers in a wide range of nanotechnology fields.
Entry requirements

A minimum of an upper second-class Bachelor's degree in a relevant discipline from a UK university or an overseas qualification of an equivalent standard.

English language proficiency level

If your education has not been conducted in the English language, you will be expected to demonstrate evidence of an adequate level of English proficiency.

The level of English language proficiency for this programme is: Standard.

Information about the evidence required, acceptable qualifications and test providers is provided at:
www.ucl.ac.uk/graduate/english-requirements

Your application

Students are advised to apply as early as possible due to competition for places. Those applying for scholarship funding (particularly overseas applicants) should take note of application deadlines.

When we assess your application we would like to learn:
// why you want to study Nanotechnology at graduate level
// why you want to study Nanotechnology at UCL
// what particularly attracts you to this programme
// how your academic and professional background meets the demands of this programme
// how you envisage your career path after the MSc

Together with essential academic requirements, the personal statement is your opportunity to illustrate whether your reasons for applying to this programme match what the programme will deliver.

FEES AND FUNDING 2017/18 ENTRY

// UK: £11,800 (FT), £6,010 (PT)
// EU: £11,800 (FT), £6,010 (PT)
// Overseas: £24,610 (FT), £12,570 (PT)

The tuition fees shown are for the year indicated above. Fees for subsequent years may increase or otherwise vary. Further information on fee status, fee increases and the fee schedule can be viewed on the UCL Current Students website.

The Institution of Engineering and Technology (IET) also awards competitive scholarships for postgraduate study, for details visit www.theiet.org

Please visit the UCL Electronic and Electrical Engineering Scholarships website for more information on funding.

Full details of funding opportunities can be found on the UCL Scholarships website: www.ucl.ac.uk/scholarships

APPLICATION DEADLINE

All applicants: 28 July 2017

Details on how to apply are available on the website at:
www.ucl.ac.uk/graduate/apply

CONTACT

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EU referendum

For up-to-date information relating to specific key questions following the UK’s decision to leave the EU, please refer to www.ucl.ac.uk/eu-referendum