Engineering with Innovation and Entrepreneurship MSc

This new degree programme is designed to equip graduates with a first degree in a relevant numerate subject with the technical, managerial and entrepreneurial skills and knowledge required to develop innovative engineering products and solutions and turn them to financial advantage.

Degree summary

The programme combines a first-rate engineering education in areas that are key to developing new technologies (namely, advanced materials, renewable energy and biomedical engineering) with modules on project management and entrepreneurship to equip students with the fundamentals and skills required to manage innovation. Students undertake a group and an individual project with a focus on innovation.

UCL Mechanical Engineering is a dynamic and vibrant place to study and do research. Located in central London it was the first mechanical engineering department in the UK. It has a long reputation for internationally leading research, funded by numerous organisations, and industry and quality teaching.

The department benefits from state-of-the-art facilities and close links with industry and has access to expertise in other disciplines, including engineering and management science within UCL.

This dynamic programme is delivered through a combination of lectures, tutorials, seminars, laboratory and project work, workshops and problem classes, all of which frequently draw upon real-life industrial case studies. Assessment is through examinations, coursework, lab reports, presentations, the group design project and the individual research project.

Degree structure

Mode: Full-time: 1 year
Location: London, Bloomsbury

Students undertake modules to the value of 180 credits. The programme consists of five core modules (75 credits), an optional module (15 credits), an individual research project (60 credits), and an innovation and Group Design Project (30 credits).

Please note that the list of modules given here is indicative. This information is published a long time in advance of enrolment and module content and availability is subject to change.

CORE MODULES

- Materials and Fatigue
- Project Management
- Mastering Entrepreneurship
- New and Renewable Energy Systems
- Applications of Biomedical Engineering

OPTIONAL MODULES

Students choose one of the following:

- Advanced Computer Applications in Engineering
- Vibration, Acoustics and Control
- Entrepreneurial Finance

DISSERTATION/REPORT

All students undertake an Innovation and Group Design Project and an individual research project, both of which culminate in a substantial dissertation. The Group Project focuses on creativity and design, teamwork, project management and entrepreneurial skills. The research project revolves around student research interest; it often has industry input and develops high-level presentation, critical thinking and research skills.
Graduates will be well placed to understand new technologies, develop and use their creativity to identify needs and opportunities and generate innovative solutions, thus preparing them for successful careers in today’s competitive, technology and knowledge-based economy.

**Employability**

This programme is delivered by leading researchers from across UCL, and students have plenty of opportunity to network and keep themselves informed about transforming ideas to business. For example, students will participate in the Entrepreneurship Lecture Series and are encouraged to attend an Enterprise Bootcamp workshop and also enter entrepreneurship competitions to pursue their innovative business ideas. Students also build up employer networks through the department’s careers programme which includes employer-led events and individual coaching. This carefully designed new programme will equip our graduates with the skills and confidence needed to play a creative and leading role in the professional and research community.
Entry requirements

A minimum of an upper second-class Bachelor's degree from a UK university in a suitable engineering subject, or an overseas qualification of an equivalent standard. Candidates with qualifications in other subjects allied to engineering will also be considered.

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.

There is an application processing fee for this programme of £75 for online applications and £100 for paper applications. Further information can be found at: www.ucl.ac.uk/prospective-students/graduate/taught/application.

FEES AND FUNDING 2019/20 ENTRY

UK: £12,750 (FT)
EU: £12,750 (FT)
Overseas: £26,660 (FT)

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 Students website.

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

APPLICATION DEADLINE

All applicants: 31 May 2019

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/brexit