ENGINEERING FOR INTERNATIONAL DEVELOPMENT MSc / 2019/20 ENTRY

www.ucl.ac.uk/graduate/
There is an international need for professionals who can provide sustainable and resilient infrastructure to help alleviate poverty in low- to middle-income countries. This programme will create future engineers who can work in a global context and with the skills and understanding to address the challenges of poverty worldwide.

**Degree summary**

Students gain understanding of infrastructure design and delivery processes in resource-limited settings, and learn how to mobilise technical expertise to develop solutions with local stakeholders in a global context. The wide range of taught modules also provides opportunity to critically engage with the complexities and ethical dilemmas of working as an engineer internationally.

UCL Civil, Environmental & Geomatic Engineering is an energetic and exciting department with well-established research projects and networks in environmental engineering, transportation, urban resilience, wastewater provision, human settlements and renewable energy.

UCL is also home to Engineers Without Borders UCL, the international development organisation's largest UK branch and the Engineering for International Development which is an umbrella entity for student activities in relation to international development. A self-financed summer school can be organized to Ethiopia to gain exposure to the water supply, sanitation and hygiene (WASH) programme of the UN.

Students benefit from UCL’s strong links with industry-leading partners in the heart of London, through collaborative projects with businesses, charities and utility companies who work in low-middle income regions such as Water Aid, and renewable energy start-ups such as BBOXX.

This programme will be delivered by a selection of taught modules, collaborative project with overseas clients and practical activities, including a site visit to the Centre for Alternative Technologies in Wales. While most of the field trip costs are met by the department, students are required to pay £300 towards the trip which contributes to accommodation and food. Assessment will range from group project presentations, coursework, and examinations to essays and a compulsory dissertation over the last term.

**Degree structure**

Mode: Full-time: 1 year; Part-time: 2 years; Flexible: up to 5 years
Location: London, Bloomsbury

Students undertake modules to the value of 180 credits. The programme consists of three core modules (45 credits), a collaborative project (30 credits), three optional modules (45 credits), and a dissertation/report (60 credits).

A Postgraduate Diploma (120 credits), full-time nine months, part-time two years, flexible up to five years is offered

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.

**COMPULSORY MODULES**

- Appropriate Technologies in Practice
- Collaborative Project International Development
- Engineering and International Development
- Conflict, Humanitarianism and Disaster Risk Reduction

**OPTIONAL MODULES**

Students choose a minimum of two* and a maximum of three optional modules from the following (subject to availability):
- Environmental GIS
- Environmental Modelling
- Environmental Systems Engineering
- GIS Principles and Technology
- Natural and Environmental Disasters
- Urban Flooding and Drainage
- Water and Wastewater Treatment
- Critical Urbanism Studio I – Learning from Informality: Case Studies and Alternatives
- Critical Urbanism Studio II – Learning from Informality: Investigative Design
- Disaster Risk Reduction in Cities
- Food and the City
- Post Disaster Recovery: Policies, Practices and Alternatives
- Sustainable Infrastructure and Services in Development
- Urban Water and Sanitation, Planning and Politics

**DISSERTATION/REPORT**

All students undertake an independent research project which culminates in a dissertation of 10,000 to 15,000 words.
Your career

Graduates can expect to find employment in the following areas:

- the Department for International Development
- international development agencies and engineering consultancies
- organisations such as the United Nations, the World Bank, and the European Union
- non-governmental agencies worldwide, such as Practical Action, WaterAid, and Water & Sanitation for the Urban Poor.

Employability

MSc Engineering for International Development graduates will be able to pursue a career in the field of engineering, working on projects in low-middle income, developing countries, as well as the broader international development sector in different capacities and within various organisations currently operating in the field, such as the UN, the EU or NGOs such as WaterAid, Practical Action, Habitat for Humanity and more.
Entry requirements

A minimum of an upper second-class Bachelor’s degree in a relevant discipline (such as engineering, architecture, geography, urban planning, mathematics) from a UK university or an overseas qualification of an equivalent standard. Normally, however, only candidates with either a first- or upper second-class degree will be accepted, although applicants with a lower second-class degree supported by extensive relevant work experience 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.

When we assess your application we would like to learn:

- why you want to study Engineering for International Development at graduate level
- why you want to study this programme at UCL
- what particularly attracts you to the chosen programme
- how your academic and professional background meets the demands of this challenging programme
- where you would like to go professionally with your degree.

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.

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), £6,375 (PT)
// EU: £12,750 (FT), £6,375 (PT)
// Overseas: £26,660 (FT), £13,340 (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 Students website.

Fees for flexible, modular study are charged pro-rata to the appropriate full-time Master's fee taken in an academic session.

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

APPLICATION DEADLINE

UK/EU applicants: 26 July 2019
Overseas applicants: 15 June 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