

# ME Civil Engineering (dual degree)

Two Years Full Time (September start)



## Introduction

Globally, Civil Engineers are essential to the provision of transportation systems, bridges, buildings and other infrastructure, clean water, waste management, and earthworks. With ever increasing global population, global urbanisation and global concerns about climate change, the formal training of engineers in a global context becomes crucial. This programme offers\* students the

chance to develop their engineering skills in both University College Dublin and Columbia University, New York and to graduate with a dual degree from both universities. The benefits to both graduates and the industry as a whole will be in the training of high-quality graduates with global knowledge and training of European and American engineering practices.

## Course Highlight

Students have the opportunity to study in New York city for a year and receive a dual degree from New York's Columbia University (ranked 16th best university in the world) and University College Dublin. Students will complete a mixture of taught modules, a work placement and research over the course of their studies on this programme.

## Course Content and Structure

- 120 ECTS credits + 30 US credits
- 60 ECTS completed in first year in UCD. 30 US credits in second year in New York (this equates to 60 transfer ECTS credits from UCD)
- Stage 1 in UCD comprises 6 core modules in the Autumn Trimester (30 ECTS) and either a Professional Work Experience placement (30 ECTS) which runs across the Spring and Summer Trimesters or a Design Project (10 ECTS) plus Optional Modules (20 ECTS) which are undertaken in the Spring Trimester.
- Research Credit Requirements for Stage 2 are equal to 6 US credits from supervised research + 6 US credits from research-intensive course modules. Modules in Columbia will be chosen in consultation with the Programme Director.

### Core UCD modules:

- Innovation Leadership
- Civil Engineering Systems
- Geotechnics
- Design of Structures
- Quantitative Methods for Engineers
- Applied Hydrology

### Optional UCD modules:

- Advanced Air Pollution
- Environmental Engineering
- Transport Modelling
- Technical Communication
- Water & Wastewater Treatment
- Hydraulic Engineering Design
- Bridge Engineering
- Water Waste and Environmental
- Highway Engineering
- Professional Engineering Management
- Statistical Machine Learning

## Why study at UCD?



### Graduate education

12,800 graduate students; 17% graduate research students; structured PhDs



### Global community

Over 11,000 international students from more than 152 countries



### Global profile

UCD is ranked in the top 1% of higher education institutions worldwide



### Global careers

Dedicated careers support; 2-year stayback visa to work in Ireland



*\*Students will need to have a minimum GPA of 3.08 from UCD (equivalent to 2:1) and with the support of UCD make an application to Columbia University for acceptance. Students who are unsuccessful will complete Stage 2 of their degree in UCD.*



## Career Opportunities

There are excellent job opportunities for graduates of this dual master's programme in civil engineering design and construction, damage assessment and disaster relief, working in the developing work as engineers with NGOs, project management and site management. Established civil engineering employers with a presence in both Ireland, the US and around the world include Arup, Jacobs and AECOM.

## Graduate Profile

Tianyi Zhou  
Graduate Engineer, Arup



## Applicant Profile

- ◆ **For UCD:** A first cycle honours (2:1) bachelor's degree in civil engineering or equivalent and the appropriate prior learning.

Applicants whose first language is not English must also demonstrate English language proficiency of IELTS 6.5 (no band less than 6.0 in each element), or equivalent.

- ◆ **For Columbia:** GPA of 3.08 or better from UCD (equivalent to 2:1 or better) The Graduate Record Examination (GRE) is not required for the 2025 admission cycle. If you have taken the exam and would like to provide your scores, you may, but it is not required. Students who do not submit scores will not be penalised in the graduate admissions review process.

## International Fees and Scholarships

Tuition fee information is available on [www.ucd.ie/fees](http://www.ucd.ie/fees). Please note that UCD offers a number of graduate scholarships for full-time, self-funding international students, holding an offer of a place on a UCD master's programme. Please see [www.ucd.ie/global/scholarships/](http://www.ucd.ie/global/scholarships/) for further information.

## Related Master's Programmes of Interest

- MEngSc Structural Engineering
- MEngSc Water, Waste & Environmental Engineering
- ME Civil, Structural & Environmental Engineering

I chose the Civil Engineering (dual degree) at UCD because it offers the unique opportunity to experience both European and American educational environments at top universities. During my first year at UCD, I built a solid technical foundation and gained valuable field experience through an eight-month internship. Columbia University provided a vast choice of interdisciplinary classes and the chance to engage in research with esteemed professors. At both schools, I gained comprehensive knowledge in various fields of civil engineering, as well as machine learning and programming knowledge. This programme equipped me with essential skills that led to offers from top firms. Dr. Ekin Ozer, the programme director and a Columbia alumnus, offered invaluable support and guidance. Whether pursuing a career in industry or academia, this programme provides a clear path to success.

### CONTACT US

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### APPLY NOW

This programme receives significant interest so please apply early online at [www.ucd.ie/apply](http://www.ucd.ie/apply)