



University College Dublin  
Ireland's Global University



## MSc ENVIRONMENTAL TECHNOLOGY (ONE YEAR FULL TIME)

The programme addresses the demand for graduates who have the skills to develop technological solutions for air, water and soil protection in existing and emerging sectors across industry (particularly agri-food and bioresources), consulting companies and regulatory authorities. This programme will enable its students to acquire skills in the areas

of environmental engineering, risk assessment, air pollution, waste management, life cycle assessment, buildings and environment, energy systems and sustainable environment. Students will enhance their ability to work effectively as an individual, in teams and in multi-disciplinary settings, together with the capacity to undertake lifelong learning.

### DELIVERED BY A HIGHLY RESEARCH-INTENSIVE SCHOOL

This programme is delivered by a highly research-intensive School comprised of a European Research Council Fellow and six Marie Curie Fellowships. Opportunities for site visits and industry internships are provided where possible. Dr Tom Curran the academic coordinator has received teaching and research awards from UCD, the American Society of Engineering Education (ASEE), the American Society of Agricultural and Biological Engineers (ASABE) and most recently the prestigious Fulbright Award (TechImpact). The UCD School of Biosystems & Food Engineering consistently wins up to €3 million in annual research funding.

### WHY STUDY AT UCD?



#### Tradition

Established 1854, with 160 years of teaching and research excellence



#### Global profile

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



#### Global community

Over 8,000 international students from over 139 countries study at UCD



#### Global careers

Degrees with high employability; dedicated careers support; two-year stay-back visa (for non-EU students)



#### Safety

Modern parkland campus with 24-hour security, minutes from Dublin city centre

## COURSE CONTENT AND STRUCTURE

**90 credits**  
taught master's

**60 credits**  
taught modules

**30 credits**  
research project

#### Modules include:

- Advanced Air Pollution
- Buildings and Environment
- Energy Systems and Sustainable Environment
- Environmental Engineering
- LCA Applications
- Life Cycle Assessment
- Quantitative Risk Assessment for
- Human and Animal Health
- Research and Teaching Methods
- Thesis
- Waste to Energy Process & Technology

Please see online for a full list of modules.





## GRADUATE PROFILE

### Padraig Keating Enva

For my undergraduate degree I studied Agricultural Environmental Sciences in UCD and I am currently studying the Environmental Technologies master's in the School of Biosystems and Food Engineering in UCD. When deciding what to do near the end of my undergraduate degree, it seemed the right fit for me to carry on my education, so I applied for the environmental technologies master's which has a duration of 12 months, as I felt it was the most applicable programme available to my undergraduate programme. Since then I haven't looked back. The course develops a further understanding of environmental conditions both in Ireland and globally. It also looks at air, water and soil pollution and ways to prevent or reduce such issues with use of abatement technologies and alternatives to fossil fuels. This master's has opened up employment opportunities for me going forward and after I complete my thesis I look forward to finding employment in the water preservation and contamination industry.

## CAREER OPPORTUNITIES

Graduates of this master's can find employment opportunities in the following areas:

- Eco-consulting and design
- Engineering consultancy
- Environmental regulation
- Public service
- Research



## FACILITIES AND RESOURCES

UCD School of Biosystems & Food Engineering hosts the only olfactometry laboratory in a university on the island of Ireland. This is a unique facility which is used for the measurement of environmental odours from a range of sources such as landfills, wastewater treatment plants and intensive agricultural units. The data produced can be combined with meteorological information and atmospheric dispersion models to generate contour plots of predicted odour nuisance around such sites.

### APPLY NOW

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

## ENTRY REQUIREMENTS

- A bachelor's degree with a minimum upper second class honours (NFQ level 8) or international equivalent in a relevant Engineering, Science or Technology programme.
- 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.
- Students who do not meet the IELTS requirement may wish to consider taking the Pre-Sessional or Pre-Master's Pathway. Full details at <https://www.ucd.ie/alc/programmes/pathways/>

## INTERNATIONAL STUDENTS

- Option to stay in Ireland to seek employment and/or work for 2 years after graduating
- Approved by US Dept of Education for federally supported loans
- Apply for University non-EU Scholarships: [www.ucd.ie/global/study-at-ucd/scholarshipsfinances/scholarships/](https://www.ucd.ie/global/study-at-ucd/scholarshipsfinances/scholarships/)
- Apply for College of Engineering & Architecture non-EU scholarship: [www.ucd.ie/eacollege/study/noneus/scholarships](https://www.ucd.ie/eacollege/study/noneus/scholarships)

## RELATED MASTER'S PROGRAMMES OF INTEREST

- MSc Sustainable Energy & Green Technologies

## FEES

Fee information is available at [www.ucd.ie/fees](https://www.ucd.ie/fees)

## CONTACT US

**EU Students** – Katie O'Neill E: [eamarketing@ucd.ie](mailto:eamarketing@ucd.ie) T: +353 1 716 1781 W: [www.ucd.ie/eacollege](https://www.ucd.ie/eacollege)

**International Students** – E: [michelle.mathews@ucd.ie](mailto:michelle.mathews@ucd.ie) T: +353 1 716 8500 W: [www.ucd.ie/global](https://www.ucd.ie/global)