

University College Dublin
Ireland's Global University

ME Electronic & Computer Engineering (Two Years Full Time)

Ireland has evolved into one of the world's most important centres for high-tech businesses. The ICT sector in Ireland is a thriving and growing industry with 9 of the top 10 global ICT companies maintaining a presence in Ireland. The economic contribution of the sector is substantial. The ICT industry is responsible for approximately 25% of Ireland's total turnover,

representing one third of Ireland's exports by value. This ME in Electronic and Computer Engineering is a two-year programme designed to develop professional engineers who can excel in the electronic and computer sectors worldwide.

Why study at UCD?



Tradition

Established 1854, with 160 years of teaching & research excellence



Global profile

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



Global community

Over 6,000 international students from over 120 countries study at UCD



Global careers

Degrees with high employability; dedicated careers support; 1 year stay-back visa (for non-EU students)



Safety

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

Professional work placements provided

Delivered by a highly research intensive School holding 101-150 in the QS world subject rankings, this two-year programme provides 6-8 months professional work experience as an embedded element of the programme.

Course Content and Structure

120 credits
taught masters

65 credits
taught modules

30 credits
work placement

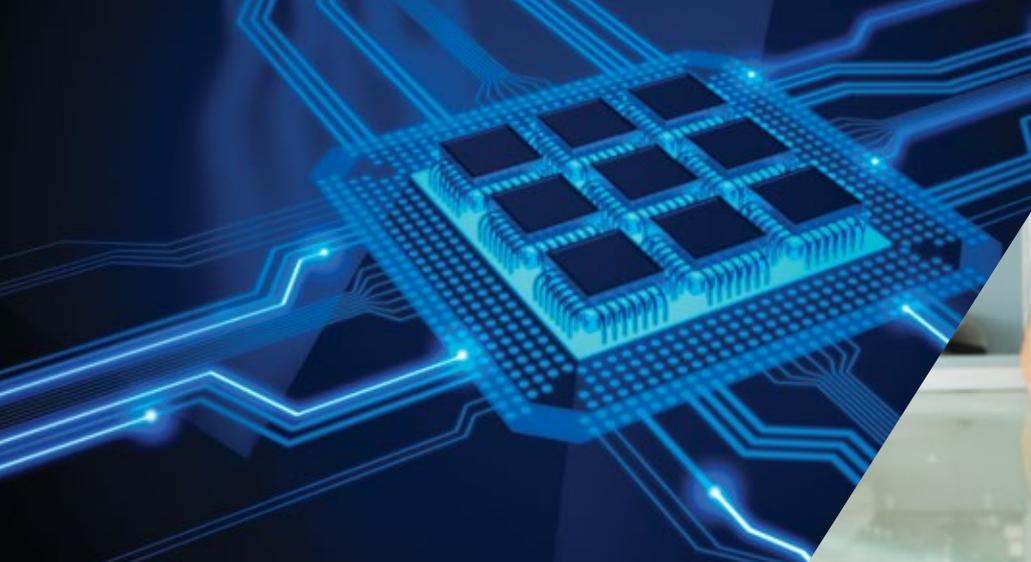
25 credits
research project

Modules cover the following topics:

- Control Theory
- Digital System Design
- Wireless Systems
- RF Electronics
- Foundations of Computing
- Computer Networks
- Software Engineering
- Analogue Integrated Circuits
- Digital Communications
- Operating Systems
- Signal Processing
- Entrepreneurial Management
- Embedded Systems
- Photonic Engineering
- Neural Engineering
- Electromagnetic Waves
- Communications Theory
- Professional Engineering Management

Project topics are spread across a wide range, but related to and drawing on the topics covered in the taught modules. Similarly, your work placement can involve a variety of roles in a range of different companies in the electronic and computer engineering field.





Career Opportunities

There are excellent job opportunities available in the ICT sector in Ireland. The Irish Government is to amend the work permit processing system in a bid to attract overseas workers to fill skill gaps in crucial areas like ICT and engineering. The government has an ongoing commitment to generate thousands of jobs in the ICT sector every year.



At present there are as many as 5,000 job vacancies in Ireland's burgeoning ICT sector and this gap could grow as Ireland hurtles towards becoming the digital capital of Europe. Prospective employers include Accenture, Analog Devices, Intel, Microsoft, SAP, Synopsys and Xilinx.



Graduate Profile

Jonathan Gorman, Everis

As job markets become increasingly competitive, employers are seeking more from recent graduates than just knowledge, but experience. I feel that the ME Electronic & Computer Engineering master's programme meets both of these requirements by providing a unique research project, as well as a professional work placement. These gave me the opportunity to apply my theoretical engineering knowledge in a number of practical environments, something which I believe makes this degree programme unique. This is complemented by state-of-the-art facilities and highly knowledgeable professors, both of which helped to maximise my learning. I also enjoyed the degree's flexibility and the wide range of modules offered, allowing me to tailor my degree as I pleased. I would have no doubts in advising anyone who is aiming to specialise in electronic or computer engineering to consider the ME Electronic & Computer Engineering masters at UCD.

Apply Now

This programme receives significant interest so please apply early online at www.ucd.ie/apply

Entry Requirements

- A 4-year bachelors degree with a minimum upper second class honours (NFQ level 8) or international equivalence in a relevant Engineering 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.

International Students

- Stay in Ireland after graduating for 12 months to seek employment
- Approved by US Dept. of Education for federally supported loans
- Apply for Non-EU Scholarships: www.ucd.ie/international/scholarships

Related Masters Programmes of Interest

- MEngSc Electronic & Computer Engineering
- MSc Advanced Software Engineering
- MSc Computer Science NL (Negotiated Learning)
- MSc Digital Investigation & Forensic Computing
- MSc Information Systems

Fees

Fee information is available www.ucd.ie/fees

Contact Us

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