ENGINEERING & ARCHITECTURE

AT UNIVERSITY COLLEGE DUBLIN

Architecture, Planning & Environmental Policy, Biosystems & Food Engineering, Chemical & Bioprocess Engineering, Civil Engineering, Electrical & Electronic Engineering Mechanical & Materials Engineering

School of Chemical & Bioprocess Engineering

- ✓ **151-200** in the QS World Subject Rankings
- ✓ Research Funding awarded in past 5 years: **€12.55m**
- ✓ The UCD bachelor degree in Chemical & Bioprocess Engineering is accredited by **IChemE at Masters level**
- ✓ Strong relationship with industry including an **8 - 12 month ME industrial placement** and significant industrial research collaborations with companies based both in Ireland and globally
- ✓ School research has yielded **award-winning spin-out companies:** APC, OxyMem and BioSimulytics
- ✓ Powerful network of influential graduates worldwide
- ✓ Graduates have excellent and very well paid employment opportunities in the buoyant process industries

Research

- • (Bio)pharmaceutical engineering
- • Energy and the environment
- • Advanced materials engineering

School of Electrical & Electronic Engineering

- ✓ **151-200** in the QS World Subject Rankings
- ✓ Research Funding awarded in past 5 years: **€29.52m**
- ✓ Robust Research profile and **strength of global significance** in Electrical Energy and Circuit Design Research
- ✓ **Leading research profile** in Enabling Technologies for the Internet-of-Things (IoT)
- ✓ **Strong record of innovation** and good links with industry
- ✓ Graduates are feeding a robust national ICT sector with **excellent career prospects**
- ✓ Network of **influential graduates worldwide:** Executive Vice President Xilinx USA and Google Vice President Engineering (Android)

Research

- • Energy systems
- • Internet of things
- • Signal processing integration
- • Biomedical Engineering

School of Biosystems & Food Engineering

- ✓ This School comprises a **European Research Council Fellow and six Marie Curie Fellowships**
- ✓ Research Funding awarded in past 5 years: **€17.30m**
- ✓ The School has three professors, that are among the top 1% of the most cited researchers in the world according to the latest Highly Cited Researchers report
- ✓ Prof. Colm O'Donnell Head of School, is listed among **the world's most "influential names in science"**, according to Thomson Reuters due to his "highly cited papers" in the area of Food Engineering
- ✓ Prof. Da-Wen Sun who is an international authority in food engineering research, his work is standard reference material for researchers in the areas of computer vision, computational fluid dynamics modelling and vacuum cooling
- ✓ Professor Paula Bourke whose research focuses on sustainable processing innovations and novel antimicrobial technologies

Research

- • Food
- • Water
- • Energy
- • Environment

School of Mechanical & Materials Engineering

- ✓ Research Funding awarded in past 5 years: **€34.59m**
- ✓ Home to I-Form, a national research centre for manufacturing technology
- ✓ Graduates primarily enter the manufacturing, automotive, aeronautical and biomedical engineering sectors
- ✓ Materials Engineering **double accreditation** with Engineers Ireland and IOM3
- ✓ **96%** graduate employment
- ✓ Choice of 8 taught master's programmes in Mechanical, Materials, Manufacturing, Energy Systems, Biomedical Engineering and Engineering with Business

Research

- Bioengineering
- Design & manufacturing
- Energy
- Materials

School of Civil Engineering

- ✓ **101-150** in the QS World Subject Rankings
- ✓ Research Funding awarded in past 5 years: **€5.82m**
- ✓ **World leading researchers** in Critical Infrastructure and Water Resources research
- ✓ Undergraduate and Graduate Programmes in Civil, Structural and Environmental Engineering, Structural Engineering with Architecture and Civil Engineering Infrastructure
- ✓ Dual Masters Degree in Civil Engineering with Columbia University, New York
- ✓ **National Teaching Award** and **Teaching Excellence Awards** received by staff
- ✓ **Excellent facilities** to meet the needs of civil engineering students

Research

- Infrastructure Resilience
- Mobility for Smart Cities
- Structural Health Monitoring
- Water Resources
- Hydrology and Remote Sensing
- Pollution and Environmental Protection

School of Architecture, Planning & Environmental Policy

- ✓ It is **the oldest Architecture Department in Ireland** and celebrated its Centenary in 2011
- ✓ Research Funding awarded in the past 5 years: **€9.83m**
- ✓ **50 years** of Planning at UCD
- ✓ **30+ years** of Environmental Policy at UCD
- ✓ UCD Architecture is ranked in the top 50 Architecture Schools in Europe by Domus
- ✓ Global recognition **101-150 in the QS World Subject rankings** in Architecture & Built Environment
- ✓ Accredited and **internationally recognised** teaching programmes
- ✓ Vibrant **doctoral programme**
- ✓ Research Excellence
- ✓ Uniquely in Ireland, UCD's architecture programmes are accredited by both the **RIBA (Royal Institute of British Architects)** and the **RIAI**, and has International Certification status with the US **National Architectural Accrediting Board (NAAB)**
- ✓ UCD's planning programmes are accredited by the **RTPI** and the **IPI**
- ✓ The only Landscape Architecture degree in Europe, accredited by the **ILI** and **EFLA**
- ✓ The **RIBA Gold Medal** was been won by 2 UCD Architecture adjunct professors (2015) and 2 UCD Architecture alumni (2020) (the world's most prestigious architecture award)
- ✓ Design programmes taught by **nationally and internationally renowned architects**
- ✓ Two alumni and adjunct Professors also curated the 2018 Venice Biennale
- ✓ **Dedicated studio space** for each architecture student.

Research

- Sustainable building design
- Conservation & heritage
- Urban planning
- Environmental policy

The College at a glance

207
Academic staff

177
Research staff

55
Technical & admin staff

1,301
Undergraduate students

754
Taught Masters students

17
Research Masters students

€107.43m
Research funding awarded in the last 5 years

406
PhD Researchers

6,150
Publications in last 5 years

88.9%
2020 Graduates employed or in further study