



Applications are invited from suitably qualified candidates for the following position

Assistant Professor
School of Mechanical Engineering
Faculty of Engineering and Computing
Fixed Term Three Year Contract

Introduction

Dublin City University (www.dcu.ie) is a young, dynamic and ambitious university with a distinctive mission to transform lives and societies through education, research and innovation. We are a research-intensive, globally-engaged institution, distinguished by both the quality and impact of our graduates, and focus on the translation of knowledge into societal and economic benefit. Excellence in education and research activities has led to DCU's consistent presence in the rankings of the world's top young universities.

Over its relatively short history has developed a strong reputation nationally and internationally for pioneering innovations in higher education. The university is embarking on a period of significant investment in learning innovation across all of its Faculties. This initiative will help us transform the learning experience of undergraduate students at DCU, reconceptualizing learning opportunities, creating authentic connections between the classroom and enterprise, and embedding digital literacies, disciplinary competencies and transversal skills required to truly future-proof our graduates for the rapidly changing workplace. DCU is joined in this project by a strong consortium of enterprise partners, representing key employment sectors in the Irish economy and with a strong presence in DCU's primary catchment area. This programme of innovation is funded under the Irish Government's Human Capital Initiative (HCI) supported by the National Training Fund. It will deliver on the ambitions we have to reimagine undergraduate curricula and to embed innovative pedagogies, enhanced use of technology and deep industry engagement.

School of Mechanical and Manufacturing Engineering

The School of Mechanical and Manufacturing Engineering has been at the forefront of Teaching, Learning, Research and Innovation in engineering since its establishment in 1987. Current programmes include Mechanical and Manufacturing Engineering, Biomedical Engineering and Mechatronics. The School is a research-intensive school that is home to key researchers affiliate to the research centres listed above and also to ESIPP, MEDeng and the Water Institute, and has particular strengths in Biomedical Engineering, Advanced Manufacturing and Sustainable Systems and Energy. At postgraduate levels the school offers taught Master's programmes with Majors in Biomedical Engineering, Simulation Driven Design and Sustainable Systems and Energy, each also with a pathway integrated with bachelor's degrees.

Relationships

The position will report to the Head of School and work closely with other colleagues, the Teaching Convenor/Associate Dean of Teaching and Learning and industry partners. Building positive relationships with professional support staff and technical and pedagogy specialists and engagement with key stakeholders within and outside of DCU is an important part of this role.

The Role

The successful individual will be expected to support the School in implementing an innovative curriculum project, specifically

- developing and delivering a new bachelors programme/specialism in Sustainable Systems and Energy, ensuring an industry engaged, research-led approach, integration of challenge based learning, digital tools and hybrid delivery.
- broader implementation of teaching approaches into other target programmes in the school, and
- engaging with university-wide elements of the initiative including cross faculty cooperation, project evaluation and reporting.

The role includes teaching, supervision of laboratory sessions, student mentoring and supervision of taught projects and research.

The successful individual should be motivated to direct and develop modules in the areas of Environmental Standards and Risk, Sustainable Development Goal Challenges and Emerging Sustainable Technologies. We are particularly interested in applicants who have experience in teaching and established research, which they bring into their teaching, in the area of Sustainability/Environmental Engineering and Emerging Technology associated with Renewable Energy/Decarbonisation.

The successful individual will be expected to align research and knowledge transfer activities with DCU's Water Institute and the Sustainable Systems and Energy Research Group. This group's research activity includes Renewable Energy, Hydrogen and Fuel Cells, Energy Auditing, Sustainable Water and Wastewater systems, Energy System Integration, Desalination, Sustainable Coatings, Heat Pumps and Life Cycle Analysis. The Water Institute is a university wide initiative focussed on water research and education with four pillars on Energy, Water and Health, Marine and Sustainable Agriculture.

Duties and Responsibilities:

Please refer to the job description for a list of duties and responsibilities associated with this role.

Applicant Requirements

- Applicants must hold an honours degree in Environmental/Chemical Engineering, and should be qualified to a post-graduate level with a PhD specialism in Sustainability, Energy and the Environment, or a related discipline.
- The successful individual should ideally have a minimum of three years' relevant post-doctoral experience.

- Applicants must have demonstrated teaching experience at undergraduate and/or postgraduate level, ideally including experience in innovative pedagogies and/or assessments, international and/or online or technology-assisted teaching.
- Applications are specifically invited from those with strong research credentials and publication record, particularly in one or more of the following research areas: Environmental Standards and Risk, Sustainable Development Goal Challenges and Emerging Sustainable Technologies.
- The successful applicants will also have demonstrated potential to establish an independent research programme and attract research funding from competitive research funding schemes and/or industry.
- Candidates should demonstrate excellent interpersonal and communication skills consistent with the highest quality of teaching and learning, together with evidence of successful teamwork and a collegial approach

Further Information

More information on the School of Mechanical and Manufacturing Engineering and its programmes can be found at: <https://www.dcu.ie/mechanicalengineering>

Essential Training

The post holder will be required to undertake the following essential training: Orientation, GDPR and Compliance. Other training may need to be undertaken when required.

Salary Scale: Assistant Professor (Above Bar) *€54,163 - €86,182

**Appointment will be commensurate with qualifications and experience, and will be made on the appropriate point of the relevant salary scale in line with current Government pay policy.*

Closing Date: Monday, 13th September 2021

Informal enquiries to: Associate Professor Brian Corcoran, Head of School of Mechanical and Manufacturing Engineering, Dublin City University, Dublin 9. Email brian.corcoran@dcu.ie
Do not send applications to this address. Instead, apply using the procedure set out below.

Application Procedure: Application forms are available from the DCU Current Vacancies website at <https://www.dcu.ie/hr/vacancies/current.shtml>

Applications must be submitted by e-mail to hr.applications@dcu.ie

**Please clearly state the role that you are applying for in your application and email subject line:
Job Ref #HCI.3.F.38 Assistant Professor, School of Mechanical Engineering**

Dublin City University is an equal opportunities employer.

In line with the Employment Equality Acts 1998 – 2015, the University is committed to equality of treatment for all those who engage with its recruitment, selection and appointment processes.

The University's Athena SWAN Bronze Award signifies the University's commitment to promoting gender equality and addressing any gender pay gaps. Information on a range of university policies

aimed at creating a supportive and flexible work environment are available [in the DCU Policy Starter Packs](#)