



Applications are invited from suitably qualified candidates for the following position

**Assistant Professor in Advanced Manufacturing Technologies
School of Mechanical and Manufacturing Engineering
Fixed Term Contract to March 2025**

Dublin City University

Dublin City University (DCU) is a leading innovative European University. It is proud to be one of the world's leading Young Universities and is among the world's top 2% globally. DCU is known as Ireland's University of Impact, with a mission to 'transform lives and societies' and focuses on addressing global challenges in collaboration with key national and international partners and stakeholders.

DCU has over 20,000 students in five faculties spread across three academic campuses in the Glasnevin-Drumcondra area of North Dublin. Thanks to its innovative approach to teaching and learning, the University offers a 'transformative student experience' that helps to develop highly sought-after graduates. DCU is currently No. 1 in Ireland for Graduate Employment Rate, and for graduate income (CSO).

DCU is a research-intensive University and is home to a number of SFI-funded Research Centres. The University participates in a range of European and international research partnerships. DCU is also the leading Irish university in the area of technology transfer as reflected by licensing of intellectual property.

As a 'People First' institution, DCU is committed to Equality, Diversity and Inclusion - a University that helps staff and students to thrive. The University is a leader in terms of its work to increase access to education, and is placed in the world's Top 10 for reducing inequalities in the Times Higher Education Impact Rankings.

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 I-Form, the SFI Research Centre for Advanced Manufacturing, EPSRC/SFI Advanced Metallic Systems Centre for Doctoral Training, the Advanced Processing Technology Research Centre and also to ESIPP, MEDeng and the Water Institute, and has particular strengths in Advanced Manufacturing and Biomedical Engineering, Sustainable Systems and Energy.

Relationships

The position will report to the Head of School, and work closely with the programme lead for the Grad Cert., other colleagues, the Teaching Convenor/Associate Dean of Teaching and Learning and academic 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.

Role Profile

The appointee will be expected to support the school in implementing an innovative curriculum project, specifically:

- developing and delivering a new postgraduate certificate programme focussed on novel materials for industry 4.0, with specialism in innovative materials processing, 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.
- Teaching, student mentoring and supervision of taught projects and research.

The role will encompass activities across the three domains, as follows:

Teaching and Learning

Prepare, deliver and assess a range of core subjects in a manner consistent with DCU's high academic standards and in a hybrid environment which involves campus and elements of remote delivery.

Teaching extends to promoting innovation in curricula development. Typical activities include:

- Contributing to the design and development of the new programme.
- Developing and delivering new or reconceptualised modules and resources.
- Designing and assessing examinations and other types of coursework.
- Using a wide range of teaching and assessment methodologies which foster a deep approach to learning and equip students with the skills and attributes needed to be lifelong learners including challenge-based learning and concentrated and immersive learning experiences.
- Student mentoring.
- Proactive engagement with the renewal of existing courses and programmes.
- Engagement with professional development for teaching particularly in that related to the approaches embedded in the project.

Research and Scholarship

He/she will be expected to sustain and conduct research, engage in scholarship of quality and substance, generate research income, supervise postgraduate students and publish to the highest international standard both individually and, where appropriate, in partnership with colleagues in DCU and elsewhere. The appointee will be expected to have clearly articulated research interests and research profile development plans that support the school's current research priorities, and which will underpin modules and projects related to the new postgraduate certificate programme.

Contribution to the School, Faculty, University and Profession

Examples include:

- Engagement with planning, quality review and improvement processes, and external programme accreditations.
- Involvement with appropriate professional bodies and associated initiatives.
- Development and delivery of the international activities of the school including international travel to do so.
- Adoption of some administrative functions related to the activities of the School, the Faculty, and the wider University. Such duties will be defined by the Head of School and may include some of the following: degree programme coordination; participation in committees; visits to students on industrial placement within the DCU INTRA programme; student recruitment.

Qualifications and Experience

Essential Criteria:

- Applicants must hold an honours degree in a relevant discipline and should be qualified to a post-graduate level with a PhD specialism in materials processing, laser surface processing or other advanced materials processing related discipline.
- The successful candidates should ideally have a minimum of three years' relevant post-doctoral experience related to advanced manufacturing technologies.
- Applicants must have experience in research collaboration and engagement with (Irish, European, and international companies.
- Applicants must have demonstrated teaching experience at postgraduate level, including experience in using innovative pedagogies and/or assessments in the area of additive manufacturing, as well as international and online, or technology-assisted teaching.
- 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.

Ideally the applicants would have:

- Provided assistance to enterprises for technology development.

- Strong research credentials and publication record, particularly in one or more of the following research areas: additive manufacturing, advanced materials engineering, and laser processing.
- Demonstrated potential to establish an independent research programme and attract research funding from competitive research funding schemes and/or industry.

Essential Training

The postholder will be required to undertake the following essential compliance training: Orientation, Health & Safety and Data Protection (GDPR). Other training may need to be undertaken when required.

Salary Scale:

Assistant Professor (Lecturer above bar) - €57,479.00- €92,115.00

Appointment will be commensurate with qualifications and experience and in line with current Government pay policy.

Closing date: Friday, 17th March 2023

For more information on DCU and our benefits, please visit [Why work at DCU?](#)

Informal Enquiries in relation to this role should be directed to:

Dr. Paul Young, Acting Head of School, School of Mechanical & Manufacturing Engineering
Dublin City University.

Email: paul.young@dcu.ie

Please do not send applications to this email address, instead apply as described below.

Application Procedure:

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

Applications should be submitted by e-mail with your completed application form to hr.applications@dcu.ie

Please clearly state the role that you are applying for in your application and email subject line:

Job Ref #BC0621 Assistant Professor in Advanced Manufacturing Technologies

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](#)