Applications are invited from suitably qualified candidates for the following position

Assistant Professor in Sustainable Systems and Energy Engineering

School of Mechanical and Manufacturing Engineering

Faculty of Engineering and Computing

Fixed Term Five Year Contract

Introduction

Dublin City University (www.dcu.ie) is a research-intensive, globally-engaged, dynamic institution that is distinguished by both the quality and impact of its graduates and its focus on the translation of knowledge into societal and economic benefit. DCU prepares its students well for success in life, and in the workplace, by providing a high-quality, rounded education appropriate to the challenges and opportunities of the 21st century. As Ireland's University of Enterprise and Transformation, DCU is characterised by a focus on innovation and entrepreneurship and a track-record of effective engagement with the enterprise sector, including commercial, social and cultural enterprises. Excellence in its education and research activities has led to DCU's consistent position in the rankings of the world's top young universities. DCU has a strong track record in attracting both Irish and European Union funding under FP7, Horizon 2020, Marie Curie Actions and Erasmus. We offer a dynamic and internationally focused environment in which to advance your academic career.

Dublin City University's Strategic Plan places sustainability at the core of the University's strategic mission fostering education and research in line with the UN sustainable development goals and key themes. The Faculty of Engineering and Computing at Dublin City University is home to the Schools of Computing, Mechanical and Manufacturing Engineering and Electronic Engineering and hosts or participates in a number of large scale SFI research centres, including: INSIGHT (Data Analytics), ADAPT, and I-Form and BioDesign Europe. We offer programmes at Bachelors, Masters and PhD levels and our graduates are highly sought after by industry both nationally and internationally. Our teaching, learning and research activities are about transforming lives and societies.

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.

Role Profile

The School of Mechanical and Manufacturing Engineering is seeking to recruit a talented and passionate Assistant Professor in Sustainable Systems & Energy Engineering. The candidate should be motivated to direct and develop modules at both undergraduate and postgraduate level in the areas of Waste Water Management, Environmental and Hydraulic Engineering, Sustainable Systems and Process Design. We are particularly interested in applicants who have experience in teaching and established research in the area of Engineering system design and modelling for intelligent and sustainable water treatment, processing or distribution including energy recovery or conversion. The post holder 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 activities include 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 see job description for full list of duties and responsibilities.

Qualifications & Experience

Applicants for the post must hold honours degree in a Mechanical Engineering, and be qualified to PhD level with a specialism in Sustainable Systems/ Energy or a closely related discipline. The successful candidate should also have a minimum of three year's relevant postdoctoral experience,

with a record of high quality university level teaching.

In addition, the ideal candidate will:

- Have teaching experience to include experience of content generation, exam preparation and assessment, project supervision and the use of online teaching platforms and technology assisted learning
- Demonstrate an Internationally relevant research track record
- Be goal orientated, a team player, use their initiative and show management potential
- Demonstrate excellent interpersonal and communication skills consistent with the highest quality of teaching and learning, with evidence of successful teamwork and a collegial approach
- Applications are specifically invited from those with strong relevant research credentials and publication record, particularly in the research areas of Waste Water Management, Environmental Engineering, Sustainable Systems and Process Design.

Mandatory Training

The appointee will be required to undertake the following mandatory compliance training: GDPR; Orientation, and Compliance. Other training may need to be undertaken when required.

Salary Scales:

Assistant Professor above bar: €54,163 - €86,182

Assistant Professor below bar: €40,604 - €55,820

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

Closing date: Friday 19th February 2021

Informal Enquiries to:

Harry Esmonde, Head of the School of Mechanical Engineering

E-mail: harry.esmonde@dcu.ie

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

Further information:

More information on the School, including specific areas of research expertise and details of taught programmes, may be found at: www.dcu.ie/mechanical_engineering/index.shtml

Application Procsedure:

Application forms are available from the DCU Current Vacancies website at http://www4.dcu.ie/hr/vacancies/current.shtml. Applications should 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 #BC2206 Assistant Professor in Sustainable Systems & Energy 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