



**Faculty of Engineering and Computing  
School of Mechanical and Manufacturing Engineering**

**Lecturer in Biomedical Engineering (1 Year Fixed-Term Contract)**

**Introduction**

The School of Mechanical and Manufacturing Engineering is one of three schools that constitute the Faculty of Engineering and Computing at Dublin City University. The school is currently recruiting for a Lecturer in Biomedical Engineering.

**The School of Mechanical and Manufacturing Engineering**

A dynamic and innovative School of Mechanical and Manufacturing Engineering in Dublin City University offers an extensive range of taught and research programmes at both undergraduate and postgraduate level, since the School was established in 1987. The School currently offers: four Bachelor of Engineering Undergraduate degrees (NFQ Level 8) in; Mechanical and Manufacturing Engineering, Biomedical Engineering, and Mechatronic Engineering, along with a Masters (NFQ Level 9) majoring in Mechanical and Manufacturing Engineering, Biomedical Engineering, and Sustainable Systems Engineering. More detailed information on the School's structure and activities are available on its website ([http://www.dcu.ie/mechanical\\_engineering/](http://www.dcu.ie/mechanical_engineering/)).

The School has forged itself a strong reputation for excellence in research in both its Masters and PhD (NFQ Levels 9 and 10) activities since 1987. The school's innovative approach has been to anticipate new directions in Mechanical and Manufacturing Engineering relevant themes and to meet these challenges through strategic development of its portfolio in teaching and learning, and research, and the integration of its teaching and learning-research activities. The School makes significant contributions to the body of global knowledge in support of societal, commercial and industrial needs, while meeting national and international academic standards. The school meets these challenges through its research in the strategic thematic areas of: Biomedical Engineering, Innovative Manufacturing and Sustainable Technology/Energy. These areas are underpinned by the activities within a University Designated Research Centre, the **Centre for Medical Engineering Research**, various National Centres within DCU, the **Advanced Processing Technology Research Centre (APT)** and other school related research clusters such as the **Enterprise Process Research Group**, the **Computational Fluid Dynamics, Heat Transfer, Complex Analytical and Numerical Modelling**, and **Energy Generation** groups.

## **Position**

The successful candidates will be expected to play a leading role in the growth and expansion of the School, to foster appropriate developments within the School and the enhancements of its teaching and learning, and research to underpin this. The candidate will be expected to identify how they can enhance the key University objectives set out in its strategic plan 2012-2017, *Transforming Lives and Societies*, together with National and European Higher Education objectives. Reporting to the Head of School of Mechanical and Manufacturing Engineering, the successful candidate will be expected demonstrate leadership and engagement in both their individual and the school's members high quality research, as well as contributing to the range of programmes offered by the School at undergraduate, postgraduate and doctoral level and to provide service to support the School's needs through various administration expectations.

## **Main Duties**

Candidates will be expected to demonstrate an ability to contribute to the School and Faculty in the following areas:

### **Programme Delivery and Development:**

- Prepare, deliver and assess a wide range of mechanical engineering related modules at undergraduate and postgraduate levels (related to the position)
- Supervise undergraduate and postgraduate projects in either Bioengineering/Energy related areas
- Liaise with other module co-ordinators on course development and delivery
- Participate in the ongoing development of the schools programmes
- Engage with national graduate education initiatives in mechanical and manufacturing engineering

### **Contribution to University and Profession**

- Contribute to the school, faculty and university in terms of strategic planning, quality review and improvement processes, and external programme accreditations
- Contribute to the profession by involvement with appropriate professional institution(s) and associated initiatives

### **Research Quality**

- Engagement in high quality research activities in the field of Bioengineering or Energy/Sustainability (publications in high impact factor journals, and presentations at national and international conferences)

- Evidence of ability to establish an independent research programme and attract research funding from competitive research funding schemes and/or industry.
- Ability to engage in interdisciplinary research

### **Person Specification**

Applicants for the post must hold an honours degree in a relevant discipline, should be qualified to post-graduate level and have completed a Doctoral qualification in the field of Biomedical, Bio-Mechanical, Bio-Mechatronics or Biomaterials Engineering. The successful candidate will also have a minimum of three years relevant industrial or academic experience, with a record of high quality university-level teaching. Preference will be given to candidates who can contribute to research in one or more of the following subject areas: Biomechanics / Biomaterials / Surgical Device Technology / Rehabilitation Engineering / Experimental and/or Computational Cardiovascular Biomechanics / Medical Device Technology.

In addition, they should have a proven research background in the area. They must demonstrate their ability to publish in the high quality peer-reviewed journals and / or with high quality book publishers and in securing external research funding supports. The successful candidate will be expected to contribute significantly to curriculum development, teaching and administration activity in the School of Mechanical and Manufacturing Engineering, across all levels and a variety of programmes.

### **Salary Scales:**

**\*Lecturer (Above Bar):** €50,159 - €76,891 per annum

**\*Lecturer (Below Bar):** €37,352 - €51,724 per annum

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

**Closing Date:** 11<sup>th</sup> September 2015

### **Informal Enquiries to:**

Dr Joseph Stokes, Head of School, School of Mechanical and Manufacturing Engineering, Faculty of Engineering and Computing. E-mail: [joseph.t.stokes@dcu.ie](mailto:joseph.t.stokes@dcu.ie) Tel: +353 (0)1 700 8720,  
*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 (Open Competitions) website at <http://www4.dcu.ie/hr/vacancies/current.shtml> and also from the Human Resources Department, Dublin City University, Dublin 9. Tel: +353 (0)1 700 5149

Applications should be submitted by email to [hr.applications@dcu.ie](mailto:hr.applications@dcu.ie) or by Fax: +353 (0) 1 7005500 or by post to the Human Resources Department, Dublin City University, Dublin 9.

**Please clearly state the role that you are applying for in your application and email subject line: Job Ref#166: Lecturer in Biomedical Engineering**

*Dublin City University is an equal opportunities employer*