



Research Unit	School of Mechanical & Manufacturing Engineering
Research Centre	Advanced Processing Technology Research Centre (APT)
Post Title	Postdoctoral Researcher
Level on Framework	Level 1
Funding duration	1.5 year Fixed Term Contract

Research Career Framework

As part of this role the researcher will be required to participate in the DCU Research Career Framework <http://www.dcu.ie/hr/ResearchersFramework/index.shtml>. This framework is designed to provide significant professional development opportunities to Researchers and offer the best opportunities in terms of a wider career path.

Background

Dublin City University (DCU) is one of the largest universities in Ireland. Its student population is approximately 13,000, including 500 research postgraduates and over 1,800 taught postgraduate students, plus around 3,000 distance education students. DCU is a research-led university which has developed its own research specialists, established internationally recognized centres of excellence that have substantive collaborative links with leading universities and industrial partners.

Advanced Processing Technology Research Centre (APT), Dublin City University

The Advanced Processing Technology Research Centre (APT) supports research and development in the areas of production technologies, advanced engineering materials, micro/nano systems engineering, and product design and sustainability. Industry sectors supported include aerospace, agriculture and food, biomedical, ICT, sustainable engineering, and heavy industry. For further information, please visit <http://www.dcu.ie/apt>

Background and Role

Arising from a recent industry collaborative project award, the following Postdoctoral research position is now available in Dublin City University. The duties and responsibilities will include metal powder characterisation, preparation of powder batches for metal Additive Manufacturing, assessment of key feedstock and laser process parameters required for successful Additive Manufacturing of components, preparation of CAD files for sample parts to be fabricated and tested, mechanical testing of sample parts, data analysis and reporting.

Minimum Criteria

Applicants should have a technology related masters or PhD. The candidate should have experience working in teams; actively engaging with people to obtain required information to enable project work. It would be desirable for the candidate to have experience or knowledge of in powder metallurgy, metal processing and materials testing, including mechanical strength, and powder fluidity; process parameter mapping with design of experiments; and data analysis and reporting.

Salary Scales

***Postdoctoral Researcher:** €37,750 - €46,255 per annum

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

Closing Date:

16 November 2016

Candidates will be assessed on the following competencies:

Discipline knowledge and Research skills – Demonstrates knowledge of a research discipline and the ability to conduct a specific programme of research within that discipline.

Understanding the Research Environment – Demonstrates an awareness of the research environment (for example funding bodies) and the ability to contribute to grant applications.

Communicating Research – Demonstrates the ability to communicate their research with their peers and the wider research community (for example colleagues in companies and research institutions, presenting at conferences and publishing research in relevant journals) and the potential to teach and tutor students.

Managing & Leadership skills - Demonstrates the potential to manage a research project including the supervision of undergraduate/postgraduate students.

Informal Enquiries to:

Prof. Dermot Brabazon, School of Mechanical & Manufacturing Engineering, DCU, Dublin 9, Ireland.

E-mail: Dermot.brabazon@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 (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.

Please clearly state the role that you are applying for in your application and email subject line: Job Ref#423: Postdoctoral Researcher

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

Dublin City University is an equal opportunities employer