



<b>Research Unit</b>	School of Mechanical & Manufacturing Engineering
<b>Research Centre</b>	Advanced Processing Technology Research Centre (APT)
<b>Post Title</b>	Postdoctoral Researcher
<b>Level on Framework</b>	Level 1
<b>Funding duration</b>	2.5 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>

### **The Project**

Arising from a recent EU H2020 award, the following Postdoctoral research position is now available in Dublin City University. The project is entitled **Pan-European Clusters for Technology Transfer and New Value Chains**. This project is a €4.8M EU H2020 funded project which is focused on supporting innovation in SMEs and fostering the smart reindustrialisation of Europe by enabling the emergence of new cross-border and cross-sectoral value chains resulting from the translation of advanced technologies among selected sectors with strong synergies. These new value chains will be created from the interaction of the following sectors: aerospace, agro-food, health and ICT sectors.

### **Principal Duties and Responsibilities**

The primary focus of the Postdoctoral Research (PDR) will be performing research on the EU funded project entitled **Pan-European Clusters for Technology Transfer and New Value Chains**. This role will have a strong focus on the assessment of technologies and new value chains. In particular, the state-of-the-art for all cross-sector and cross-regional technologies/applications will be identified and reported. This analysis is expected to include surveys among companies - members of clusters participating in the project - as well as direct interviews and case studies for a representative set of companies. The technologies will be classified and ranked in order to select those best suited for support which will be provided via this project to EU SMEs. Support to SMEs will include B2B matchmaking events, organisation and delivery of technology transfer and commercialisation programmes, delivery of one-to-one coaching and mentoring programmes, and mobility and exchange programmes. This role in APT will participate to develop, validate and assess the impact of a large scale demonstrator. This role will also involve the communication of the activities within and outside of the consortium.

### **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 system integration, and control; laser and materials processing; process parameter mapping with design of experiments; data acquisition, 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: 29 August 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](mailto: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#379: Postdoctoral Researcher**

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.

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