



Marie Skłodowska-Curie
Actions



*Advanced Processing Technology Research Centre & I-Form@DCU
Dublin City University
<http://aptcentre.ie/>*

APT & I-Form@DCU, Dublin City University is looking to host an experienced researcher via funding through [Marie Skłodowska-Curie Individual Fellowships](#). In order to secure funding, the experienced researcher must develop a proposal with the host for the September 12th 2018 deadline.

Company Description

The research centres are focused on developing advanced materials and processing technologies; and on the convergence of the digital agenda with the most fundamental scientific/technological aspects of Additive Manufacturing (AM).

Project idea and researcher opportunities

Research Field: Information Science and Engineering ENG/ Chemistry CHE/ Life Sciences LIF/ Physics PHY.

2-year fellowship project:

The challenges is to adapt and apply flexible wearable electronics within the healthcare sector. The aim of this project is to implement enhanced processing techniques for the production and integration of sensors into flexible wearable using state-of-the-art materials.

Research and training opportunities for the researcher include secondment to industry, training on technical writing and data analytics, and training on state of the art additive manufacturing and material characterisation equipment.

Researcher Requirements

- Researcher must fulfil the MSCA-IF mobility and experienced researcher requirements.¹
- The applicant will require a masters in the research area, already have published in a peer reviewed journal(s) and have demonstrable motivation toward advancement of the proposed research area.

Contact information

If you are interested in applying for a MSCA-IF with APT & I-Form@DCU, Dublin City University please contact Prof Dermot Brabazon at dermot.brabazon@dcu.ie. *LinkedIn profile:* <https://www.linkedin.com/in/dermotbrabazon/>

¹ **MSCA-IF mobility:** The researcher must not have resided or carried out the main activity (work, studies, etc.) in the country of the beneficiary for more than 12 months in the 3 years immediately before the call September 12th deadline (flexible 36 months in the 5 previous years if eligible for career restart or reintegration fellowship <https://www.iaa.ie/irish-marie-curie-office/funding-calls/individual-fellowships/>)

Experienced researcher requirements: The researcher must have at least 4-years full time research experience or hold a doctorate before the September 12th deadline.



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2-year fellowship project:

The challenge is to gain a fundamental understanding of the production of metal foams which is required to support their usages taking advantage of the large surface area and ultra-light weight such as in automobile, catalysis, heat sink, orthopaedic, and storage applications.

Research and training opportunities for the researcher include secondment, training on technical writing, and training on state of the art manufacturing and material characterisation equipment.

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Conventional matrix composites are produced using micrometre scale metal and reinforcement powders. In this project, reinforcing phases of elements such as SiC, WC and carbon allotropes of nano-scale will be integrated within the metal AM process.

Research and training opportunities for the researcher include secondment to industry, training on technical writing and data analytics, and training on state of the art additive manufacturing and material characterisation equipment.

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Electrochemical sensors for single analyte quantification will be investigated for detection of glucose, triglycerides and superoxide. These will be integrated in a lab-on-a-chip system for rapid and simultaneous detection of these important metabolic syndrome biomarkers.

Research and training opportunities for the researcher include secondment to industry, training on technical writing and data analytics, and training on state of the processing and material characterisation equipment.

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2-year fellowship project:

The challenge is the implementation of metal AM process with a defined control on resulting part phase structure. In this project measurement of the thermal field and resulting parts will be examined for development of new process control algorithms.

Research and training opportunities for the researcher include secondment to industry, training on technical writing and data analytics, and training on state of the art additive manufacturing and material characterisation equipment.

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2-year fellowship project:

Laser hardening is a novel method of nitriding where the surface is heated locally by a laser in an atmosphere of nitrogen. The challenge is the implementation of metal laser hardening at atmospheric pressure and plasma assisted.

Research and training opportunities for the researcher include secondment to industry, training on technical writing and data analytics, and training on state of the art additive manufacturing and material characterisation equipment.

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