



Marie Skłodowska-Curie
Actions



Waterford Institute of Technology
INSTITIÚID TEICNEOLAÍOCHTA PHORT LAIRGE

*School of Science, Pharmaceutical and Molecular
Biotechnology Research Centre
Waterford Institute of Technology
www.wit.ie*

The PMBRC at WIT 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

Waterford Institute of Technology is a research-led Institute whose strategy is to create substantial centres of excellence for world-class research in which individual scholars and research groups are given maximum freedom to pursue their investigations. The Pharmaceutical and Molecular Biotechnology Research Centre (PMBRC) is an applied research centre, which aims to support the sustainable growth of the pharmaceutical and healthcare industry in the south east of Ireland.

Project idea and researcher opportunities

Research Field: Information Science and Engineering ENG / Mathematics MAT/Physics PHY

The goal of this project is to develop a plasmonic multiplex sensor technology. Work will involve modelling and designing the sensor chip. Nano-photolithography will be used to realise the multiplex array and jet printing will be employed to deposit the sensor molecules or molecularly imprinted polymers onto the sensor chip. Software will be developed to readout the multiplex sensor in a test assay.

Researcher Requirements

- The researcher must fulfil the MSCA-IF mobility and experienced researcher requirements. ¹
- Excellent mathematical modelling skills – Experience with Optiwave FDTD or similar software packages.
- Experienced in the development of plasmonic biosensors based on nanostructured arrays.
- A knowledge of photolithography and aerosol jet printing is an advantage.
- LabView software development experience is desirable.
- Excellent communication skills with a good publication record.

Contact information: If you are interested in applying for a MSCA-IF with **PMBRC** please contact Dr. Joseph O'Mahony, jomahony@wit.ie

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.