



Marie Skłodowska-Curie
Actions



*School of Civil & Structural Engineering,
Dublin Institute of Technology
<http://www.dit.ie/civilengineering/>*

The School of Civil & Structural Engineering in the Dublin Institute of Technology, Ireland 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 School of Civil & Structural Engineering is a research informed academic department in the Dublin Institute of Technology. This research active School has a growing international profile in the areas of cement science, concrete technology, structural engineering, transport engineering, hydrology and energy infrastructure.

Project idea and researcher opportunities

Research Field: Information Science and Engineering ENG

The proposed project will develop a cement hydration and microstructure model using the Matlab software. The model will be user friendly and capable of simulating the ongoing hydration and microstructure development of cement, SCM's and inert materials and calibrated using state-of-the-art experimental analysis. The transferrable skills developed during the research will include: i) Matlab programming ii) cement chemistry experimental analysis using state of the art equipment. The researcher will also raise their own research profile in this area by carrying out state of the art research, gaining industrial experience via sabbatical opportunities, publication of its research results in peer-review international journal publications and participation at international conferences.

Researcher Requirements

- The researcher must fulfil the MSCA-IF mobility and experienced researcher requirements.¹
- Advanced Matlab programming, cement chemistry and experienced undertaking experimental analysis.

Contact information

If you are interested in applying for a MSCA-IF with the School of Civil & Structural Engineering in the Dublin Institute of Technology, please contact Dr. Niall Holmes (niall.holmes@dit.ie; <http://www.dit.ie/civilengineering/>)

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 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.