



PREDICT Project: Integrating multidisciplinary geoscientific data into forecasting models to monitor and predict coastal change: Proof of concept in Dublin Bay.

Post title: Postdoctoral Researcher, PREDICT

Level on Framework: Level 1

Post duration 36 months

Research Career Framework

As part of this role, the researcher will be required to participate in the DCU Research Career Framework <http://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.

DCU has a strong track record in attracting both Irish and European Union research funding under Horizon 2020 (and all previous Framework Programmes), Marie Curie Actions and Erasmus. We offer a dynamic and internationally focused environment in which you can advance your academic career.

Background & Role

We are seeking a driven, motivated, and skilled postdoctoral researcher for the SFI/GSI/MI funded programme for research “PREDICT – Integrating multidisciplinary geoscientific data into forecasting models to monitor and predict coastal change: Proof of concept in Dublin Bay”. The candidate will work with a team of researchers with chemistry, bioscience, mathematical modelling, remote sensing and oceanography backgrounds. Candidates must have a PhD and primary degree in chemistry, biochemistry and/or a related field.

Coastal zones are threatened by forces such as climate change and sea level rise that combine to drive increasingly intense storms, flooding, and erosion. Assessment and prediction of coastal vulnerability can only be achieved by systematic and sustained monitoring of physical, chemical and biological processes that occur in coastal zones. The objective of our project is a coordinated program of coastal observations that will be used to validate, calibrate and extract as much information as possible from satellite environmental data. We will integrate these datasets to generate forecasting models that can be used to predict environmental change and inform future planning.

Principal Duties and Responsibilities

Reporting to the Principal Investigator the Postdoctoral Researcher will:

- Coordinate research between partners MU, UCC and the GSI
- Assist in the supervision of postgraduate research students working on the project
- Deliver research outputs and provide input into reports as required according to project management schedules
- Attend and present results as required at project progress meetings
- Assist in identifying and developing future research and funding initiatives
- Engage in the dissemination of the results of the research in which he/she is engaged with the support of and under the supervision of the Principal Investigator
- Engage in appropriate training and development opportunities as required by the Principal Investigator, the School, or the University
- Engage in teaching and teaching support as assigned by the Head of School under the direction of the Principal Investigator
- Liaise with both internal and external stakeholders including industry and academic partners/collaborators
- Carry out administrative work associated with the programme of research as necessary

Minimum Criteria

Applicants should have a PhD in Biochemistry, Biotechnology and/or a related field.

The applicant should have strong analytical skills including the maintenance, use and interpretation of analytical equipment such as GC-MS. The candidate should have excellent writing skills with experience of report writing and publications in high impact journals. Experience in statistical packages is desirable. The candidate should be well organised and have excellent laboratory and communication skills.

Salary: €37,223 - €39,529 p.a. *

*Appointment 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: Tuesday, 9th July 2019

Candidates will be assessed on the following competencies:

- **Discipline specific 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 presenting at conferences and publishing research in relevant journals) and the potential to teach and tutor students
- **Managing and Leadership skills** - Demonstrates the potential to manage a research projects including the supervision of undergraduate students.

Application Procedure

Informal enquiries to: Dr Brian Kelleher, School of Chemical Science, DCU, Dublin 9, Ireland E-mail: brian.kelleher@dcu.ie

Please do not send applications to this email address, instead apply as described below

Application forms are available from the DCU Current Vacancies (open Competitions) website at <http://www.dcu.ie/vacancies/current.shtml> and from the Human Resources Department, Dublin City University, Dublin 9. Tel: +353 (0) 1 7005149.

***Please clearly state in the email subject line and in your application the role you are applying for:
#RF1242 – Postdoctoral Researcher – PREDICT Project***

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. Tel: +353 1 700 5149; Fax: +353 1 700 5500 Email: hr.applications@dcu.ie

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