



Research Assistant in Biogeochemistry
PREDICT Project
School of Chemical Sciences
Faculty of Science & Health
12 Month Fixed-Term Contract

Dublin City University

Dublin City University www.dcu.ie is a research-intensive, globally-engaged, dynamic institution that is distinguished both by the quality and impact of its graduates and by its focus on the translation of knowledge into societal and economic benefit. Through its mission to transform lives and societies through education, research and innovation, DCU acts as an agent of social, cultural and economic progress. DCU is Ireland's fastest growing university, and now hosts more than 17,000 students across its three academic campuses: DCU Glasnevin Campus, DCU St Patrick's Campus and DCU All Hallows campus.

School of Chemical Sciences

The School of Chemical Sciences has played a significant role in the rapid development of DCU to the point where we can now compete with some of the best European Universities. At the postgraduate research level, the School possesses an outstanding track record and is currently home to more than 95 postgraduate students, engaged in taught and research based MSc and PhD programmes, in diverse fields. These range from the development of chemical and biological sensors, and intelligent materials, to drug design and discovery, and advances in science education. The School houses a suite of state-of-the-art research equipment including high resolution electron microscopy and a range of both mass and magnetic resonance spectrometers.

Role Background & Profile

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 – PREDICT “*Integrating multidisciplinary geoscientific data into forecasting models to monitor and predict coastal change: Proof of concept in Dublin Bay*” - 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.

We are now seeking an enthusiastic, and curious research assistant to join the PREDICT team which is currently made up of researchers with chemistry, bioscience, mathematical modelling, remote sensing and oceanography backgrounds.

Duties and Responsibilities

Reporting to the Principal Investigator the Research Assistant will:

- Analyse water and sediment samples
- Interpret results
- Support other researchers in the group

- 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
- Engage in the dissemination of the results of the research
- Engage in appropriate training and development opportunities as required by the Principal Investigator, the School, or the University.
- 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.

Candidate Requirements

-Essential

- A primary degree in either Chemistry, Biochemistry, or a related field
- Excellent practical laboratory skills
- Strong analytical skills including the maintenance, use and interpretation of analytical equipment results
- Ability to work in collaboration with an R&D team that includes both academic researchers and industrial partners
- Strong organisational skills

-Desirable

- Experience in statistical packages

Mandatory Training

The post holder will be required to undertake the following mandatory compliance training: Orientation, GDPR, and Compliance. Other training may need to be undertaken.