Applications are invited from suitably qualified candidates for the following position:

Research Centre   Water Institute
Post title   Postdoctoral Researcher
                                            In Environmental Analytical Science for Marine
                                            Chemical Monitoring

Level on Framework   Level 1
Post duration   Up to 2 year Fixed Term contract

Dublin City University
Dublin City University (DCU) is a young, ambitious and vibrant university, with a mission 'to transform lives and societies through education, research, innovation and engagement'. Known as Ireland's 'University of Enterprise', DCU is a values-based institution, committed to the delivery of impact for the public good. DCU was named Sunday Times Irish University of the Year 2021.

DCU is based on three academic campuses in the Glasnevin-Drumcondra region of north Dublin. More than 18,000 students are enrolled across five faculties – Science and Health, DCU Business School, Computing and Engineering, Humanities and Social Sciences and DCU Institute of Education.

DCU is committed to excellence across all its activities. This is demonstrated by its world-class research initiatives, its cutting-edge approach to teaching and learning, its focus on delivering a transformative student experience, and its positive social and economic impact. The university continues to develop innovative programmes in collaboration with industry, such as the DCU Futures suite of degrees, which are designed to equip graduates with the skills and knowledge required in a rapidly evolving economy.

DCU's pursuit of excellence has led to its current ranking among the top 2% of universities globally. It is also one of the world's Top Young Universities (QS Top 100 Under 50, Times Higher Top 150 Under 100). In the Times Higher Education University Impact Rankings 2021, DCU ranked 23rd in the world for its approach to widening participation in higher education and its ongoing commitment to eradicating poverty, while it ranks 38th globally for its work in reducing inequality and 89th globally for gender equality.

The university is ranked 23rd in the world and first in Ireland for its graduate employment rate, according to the 2020 QS Graduate Employability Rankings. Over the past decade, DCU has been the leading Irish university in the area of technology transfer, as reflected by licensing of intellectual property.

As part of this role the researcher will be required to participate in the DCU Research Career Framework. This framework is designed to provide significant professional development opportunities to Researchers and offer the best opportunities in terms of a wider career path.

Background and Role:

Irish Marine Screening and Assessment of Emerging Contaminants in Coastal and Transitional Environments (I-SECURE) is a collaborative project, led by the DCU Water Institute with the Irish Marine Institute, University of Portsmouth, RECETOX and Agilent.

Anthropogenic contaminants reach the marine environment from land-based sources, but there are cases in which they are emitted or re-mobilised in the marine environment itself. The I-SECURE project involves the study of sources and occurrences of contaminants of emerging concern (CECs) in the marine coastal and transitional waters. The project will review and evaluate the potential application of novel approaches (high-resolution screening, passive sampling, effect-based methods and vulnerability assessment) in future risk-based water quality assessment for CECs.

This is an exciting opportunity for an enthusiastic scientist with a keen interest in research involving the chemicals in the coastal and marine environment.

Principal Duties and Responsibilities
Working as part of the team, the duties and responsibilities for the successful individual include but are not restricted to the following:

- Enable the growth in capacity of chemicals of emerging concern (CEC) monitoring in Ireland
- Deliver novel data and new compound information
- Aid in the prioritisation of monitoring locations and chemical groups in support of policy objectives e.g. national (and OSPAR) pollutants listings
- Identify risk-based approaches for marine monitoring
- Show impacts of chemicals on marine biota; and provide data that can be archived for comparisons with international databases.
- Any other duties as required

Qualifications and Experience:

Minimum Criteria
- Applicants should have a PhD in a relevant field such as analytical science, marine science, environmental analytical chemistry, or a related discipline.

Desirable:

- It is desirable that the candidate has experience in Experience in marine science and environmental monitoring and chromatography with mass spectrometry would be an advantage.
- Good data analysis skills and evidence of project management skills are also an advantage.
- Evidence of working in multidisciplinary teams and ability to communicate across disciplines is desirable.
- Sampling campaigns at sea may form part of this work to generate samples for sample analysis.
- Candidates should have a strong interest in the marine environment and/or environmental science.

Candidates will be assessed on the following competencies:

Discipline 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 & Leadership skills - Demonstrates the potential to manage a research project including the supervision of undergraduate students

Essential Training
The postholder will be required to undertake the following essential compliance training: Orientation, Health & Safety and Data Protection (GDPR). Other training may need to be undertaken when required.