Research Career Framework

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.

Overview

DCU Water Institute is a large, multidisciplinary research unit based in state-of-the-art facilities situated on the campus of Dublin City University. Arising from success in recent proposals we are now seeking applications for the following research position in DCU.

Background and Role

Applications are invited for a highly motivated and talented Post-Doctoral Researcher to conduct laboratory based research on the microbiology of a wastewater treatment system attached to a meat processing plant. This post is part of a larger project conducted in partnership with the ABP Food Group and co-funded by Enterprise Ireland. The industrial partner is investing heavily in new technologies and research to improve the sustainability of its liquid waste treatment processes. The overall project aims to support research on four novel solutions for ammonia removal, suspended particle filtration, fine bubble particle flotation and biothermic digestion. This particular post will have an input in all work-packages working closely with engineers.

Applicants should be qualified in Environmental or Industrial Microbiology and have obtained or should be expecting to obtain a PhD in an appropriate discipline with research experience in at least one of the following areas: (i) biological wastewater treatment and in particular ammonia removal systems (ii) mixed microbial population characterisation (iii) biological high temperature digestion.
The successful candidate will join a team of 3 post-doctoral engineers and scientists and 6 Principle Investigators from the Schools of Chemical Sciences, Biotechnology and Mechanical Engineering. The post is full-time and fixed term for 20 months.

Principal Duties and Responsibilities

Reporting to his/her Principal Investigator the Postdoctoral Researcher will:

- Take responsibility for planning and conducting an experimental program of research on the characterisation and optimisation of microbial strains and mixed populations used to improve process performance and sludge treatment
- Make conference presentations and write papers as agreed with PI.
- Present regular updates via lab meetings, Skype (or similar electronic media) and discussions with PI and external collaborators at the ABP Group Research Facilities.
- Manage project ordering
- Provide advice and assistance for junior staff and research students as required

Minimum Criteria

The candidate should possess the following criteria:

- Ph.D. in Environmental Microbiology or related discipline from an accredited institution.
- Background in biological wastewater treatment systems
- Experience with mixed microbial populations – cultivation, identification and bioaugmentation.
- Proven ability in working in teams, preferably cross-disciplinary teamwork;
- Excellent communication and writing skills are essential.

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.

Salary: €37,750 per annum

Closing date: 18th April 2016
Informal enquiries to:

Dr. Brid Quilty, School of Biotechnology, DCU, Dublin 9, Ireland

E-mail: brid.quilty@dcu.ie

Phone: +353 (0)1 7005388

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

Application Procedure

To apply for this role, applications should include a CV and covering letter and be submitted with the application form to the Human Resources Department as outlined below. Application forms are available from the DCU Current Vacancies (open Competitions) website at http://www.dcu.ie/vacancies/current.shtml and also from the Human Resources Department, Dublin City University, Dublin 9. Tel: +353 (0) 1 700 5149

Please clearly state the role that you are applying for in your application and email subject line:

Job Ref # 299 Post-doctoral Researcher in Environmental Microbiology specialising in the study of biological wastewater treatment systems

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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