



Water Institute

Research Centre:	DCU Water Institute
Post title:	Research Assistant for the study of micro bubble generation and transport in liquid waste streams.
Level on Framework:	Level 1
Post duration:	6 months Fixed Term Contract

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 Research Assistant to conduct laboratory based experimental research and on-site trials of novel oxygenation system for Waste Water Treatment. The successful candidate will be responsible for the characterisation of existing units and the development of innovative and improved technical solutions. 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 responsibility for one Work Package working closely with a microbiologist and may require travel to the partner's facilities in Cahir, Co. Tipperary.

Applicants should be qualified Mechanical or Chemical engineers with some experience of system design and experimental or operational testing in at least one of the following areas: (i) experimental characterisation of fluid or hydraulic systems and/or (ii) Computational Fluid Dynamics and (iii) hydraulic system design.

The successful candidate will join a multidisciplinary team of post-doctoral engineers and scientists from the Schools of Chemical Sciences, Biotechnology and Mechanical Engineering at DCU. The post is full-time and fixed term for 5 months. The role will involve travel between DCU and the Industrial Partner site at Cahir, Co. Tipperary.

Principal Duties and Responsibilities

Reporting to his/her Principal Investigator the Research Assistant will:

- Conduct, with a very high degree of technical competence a specified programme of research and scholarship under the supervision and direction of the Principal Investigator
- Disseminate the outcomes of the research in which he/she is engaged including publishing in high quality peer reviewed journals of international standing.
- Support the PI and research group in the design and development and implementation of the broader research programme.
- Support if required, the development of proposals for research funding.
- Take responsibility as requested for day-to-day advice and support of graduate research students associated with your research group.
- Mentor, assist and train as appropriate and as directed, the research graduate students and more junior postdoctoral fellows within the group.
- Contribute to reporting, site visit preparation and other administrative management work associated with your programme of research and the research group.
- Contribute to teaching and outreach activities of the group.
- Liaise with stakeholders such as industry and collaborators.
- Engage in appropriate training and development opportunities as required by the Principal Investigator, the School or Research Centre, or the University.
- Carry out administrative work associated with the programme of research as necessary.

Minimum Criteria

The candidate should possess the following criteria:

- Has graduated or is due to graduate with a Mechanical or Chemical Engineering degree with Second Class Honours classification with a strong interest in hydraulic or fluid systems.
- Research experience in system testing and characterisation;
- Knowledge of Waste Water Treatment processes and/or experience of mechanical or chemical engineering system design would be an advantage;
- Proven ability to working in teams, preferably cross-disciplinary teamwork;
- Excellent communication and writing skills are essential.

Salary: €21,459 per annum

Closing date: 26/07/2017

Informal enquiries to:

Dr. Yan Delauré, School of Mechanical and Manufacturing Engineering, DCU, Dublin 9, Ireland

E-mail: yan.delaware@dcu.ie

Phone: +353 (0)1 7008886

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#620: Research Assistant for the study of micro bubble generation and transport in liquid waste streams.

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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