

Extended Closing Date: 30th June 2017.



Ph.D Positions in Sensor Technologies BEYOND 2020 PROJECT Funded by the Marine Institute

We are seeking **2 Ph.D students** to develop Sensor technologies as part of the Burrishoole Ecosystem Observatory Network 2020 (BEYOND 2020). The successful students will form part of a multi-institute research cluster that will build on existing biological and sensor monitoring programme to develop next generation science and technology to further inform the ecosystem response to environmental change. The **Ph.D positions are available from July 2017 but the start date is flexible**. Both positions will be based at Dublin City University.

Project 1: *Generic Chemical and Bio-sensor platform development for monitoring water quality in the Burrishoole catchment.* The project will involve design of microfluidics and integration of sensor components including sample preparation modules for an autonomous sensor for nutrients and biological indicators. Candidates must have an honours degree in an analytical chemistry-, mechatronic engineering-, biomedical engineering-, physics-based subject and have on overall grade of 2.1 or higher. Students with experience in analytical or engineering methods and with a real interest in pursuing research are particularly encouraged to apply. Informal enquiries should be made by email to: Prof. Fiona Regan, Fiona.regan@dcu.ie

Project 2: *'Comparison of eDNA versus antibodies as approaches to novel biosensor development for the Burrishoole catchment'*. Candidates must have (or expected to have) an honours degree in a Biology based subject and have on overall grade of 2.1 or higher. Students with experience in molecular biology methods and with a passionate interest in research are particularly encouraged to apply. Informal enquiries should be made by email to: Dr. Anne Parle-McDermott, anne.parle-mcdermott@dcu.ie

Stipend & Fees: The studentships are for 48 months and includes a stipend of €17,000 p.a. and the payment of academic fees.

Application procedure: Interested applicants should Email their CV including the names of 2-3 referees and which project they are applying for to Fiona.Farrell@dcu.ie.

Closing Date for applications for both PhD positions: 5 pm June 30th 2017
Shortlisted candidates are expected to be interviewed on July 10th.

Please e-mail Fiona.Farrell@dcu.ie with CVs marking them BEYOND2020 for ref.