

Position Overview

NIBRT are seeking an enthusiastic MSc student to join the NIBRT GlycoScience group to study the *Glycoanalytics for better design of biomaterial implants in regenerative medicine*. The central focus of this fully funded 2 years position (fixed term 1/9/2018-31/08/2020) will be to develop and further assess the potential of our glycoanalytic methodology developed in NIBRT GlycoScience group to investigate further the glycome on tissues in collaboration with CURAM (The Centre for Research in Medical Devices) for the aim of better design of biomaterial implants in regenerative medicine. The successful candidate will be based in NIBRT under the supervision of Dr Radka Fahey (Saldova) (Principal Investigator- PI and line manager).

The successful candidate will be based at NIBRT Limited facility Fosters Avenue, Mount Merrion, Co. Dublin working within the NIBRT GlycoScience Group and registered to MSc programme in UCD School of Medicine. He/she may be required to travel to CURAM, NUIG for meetings and will also have to spend 1 month in Dr Struwe laboratory in Oxford University to gain more experience in mass spectrometry methods for glycan analysis.

Institute

The National Institute for Bioprocessing Research and Training (NIBRT) is a global centre of excellence for training and research in bioprocessing. **The NIBRT GlycoScience Group** is a world leading group specialising in the application of UPLC, HPLC, exoglycosidase sequencing, CE, MS and coupled LC-MS technologies for analysis of release *N*- and *O*-glycans, glycolipid head groups as well as site-specific glycosylation. Our technology provides a service that supports the drug development pipeline of leading biopharmaceutical companies, as well as underpinning our diverse research programme. We have also developed Glycibase (a comprehensive open access experimental data base) and software for computerised data analysis. The *N*-glycan library and the bioinformatics programmes have been commercialised with Waters Corporation within the UNIFI platform to automate the acquisition of LC and orthogonal MS to provide structural confirmation. It has also been integrated into Glycostore, an internationally supported open access glycan data repository.

The Centre for Research in Medical Devices (CÚRAM) is a national, SFI funded, €49.6m research centre that brings together researchers from NUI Galway, University College Dublin, Dublin City University, University of Limerick, University College Cork, Trinity College Dublin and Royal College of Surgeons Ireland. The prime objective for CÚRAM is to radically improve health outcomes for patients by developing innovative implantable 'smart' medical devices to treat major unmet medical needs. Implants will be designed and manufactured to respond to the body's environment and to deliver therapeutic agents, such as drugs, exactly where needed. Cutting-edge science will develop devices using the very latest research from biomaterials, stem cells and drug delivery and the support of strong clinical collaborations, industry partners and hospital groups to enable rapid translation to the clinic. The centre will include almost 40 industry partners and support product development and the creation of new spin-out companies.

The Role- key responsibilities of the job include

- Managing and conducting this specific project under the leadership of the PI;
- Engaging in appropriate training and professional development opportunities as determined by the PI;

- Preparing and presenting progress reports and research findings to colleagues for review purposes;
- Carrying out any other duties within the scope, spirit and purpose of the job as requested by the line manager;
- Comply with all NIBRT policies and regulations, including those in relation to Research Ethics and Health and Safety.

Requirements

- Applicants should, at the time of recruitment, be in possession of a bachelor's degree in a discipline of chemistry.
- Previous experience/background in analytical chemistry, analytical science, separation science or bioanalytical science is advantageous.

Other Skills/Abilities

- Candidates should have excellent communication and organizational skills, be highly motivated, and have strong written, oral and interpersonal skills.
- Candidates should be able to work independently and as a part of team.
- Commitment to research excellence.

How To Apply:

To apply for this position please email your CV, cover letter and the names and contact details of two referees in a combined PDF document to careers@nibrt.ie. Please include your name and the reference number for – MSc student (Ref: RF012018), in the subject line. Closing date for applications is 30th July 2018 and starting date is 1st September 2018.

NIBRT and CURAM are the equal opportunities employers.

The research programme will encourage networking and strong clinical and industry collaborations. The successful candidate will be provided with training and development opportunities designed to support his/her personal career development plans.

Gender Balance

The PhD/MSc programme will promote "positive equality" in line with CÚRAM's goal of achieving at least 40% female representation at all levels.

