Applications are invited from suitably qualified candidates for a funded PhD research position affiliated to the Biomolecular Electronics Research Laboratory within the School of Chemistry at the National University of Ireland Galway. The successful candidate will work on a project related to the research interests of the Laboratory while undertaking a PhD.

The Biomolecular Electronics Research Laboratory, Director Prof. Dónal Leech, was established in NUI, Galway in 1997. The research laboratory is located in the Ryan Institute of the National University of Ireland Galway, and the laboratory is affiliated to the School of Chemistry. Information about research in the Biomolecular Electronics Research Laboratory is available at:

http://www.nuigalway.ie/our-research/people/chemistry/donalleech/

Research in the laboratory focuses on preparation and characterisation of electron-transfer catalysts and modified electrode surfaces directed to eventual application as sensors and fuel cell electrodes. See selected publication overleaf.

This research is undertaken by a group consisting of post-doctoral, doctoral, masters and undergraduate researchers working with collaborating partners within NUI Galway, nationally and internationally.

The research programme is aimed at developing eventual applications in bioelectrochemical diagnostics and sensors, biomolecular interaction platforms, biofuel cell prototypes, and bio-electrochemical transformations for production of added-value chemicals. A research effort that seeks to underpin these areas of application is focused on synthesis and characterisation of inorganic and polymer scaffolds, surface analytical techniques, and electrochemical and biochemical methods.

The successful candidate will enroll in the School of Chemistry 4-year structured PhD programme at the National University of Ireland Galway.

This full-time scholarship will be offered for a period of 48 months and will commence in September 2018.

Requirements

- Degree and/or Master in Chemistry, Biology, Biochemistry, or Physics.
- High level of spoken and written English and good communication skills

Host Institution

Located in the vibrant cultural city of Galway in the west of Ireland, with over 17,000 students and more than 2,400 staff, NUI Galway has a distinguished reputation for teaching and research excellence.

Should you require any further information on the research programme please browse publications, or contact Prof. Dónal Leech

Informal enquiries may be made to Prof. Dónal Leech Donal.leech@nuigalway.ie

To Apply:

Applications to include a covering letter, CV, statement of personal research interests, evidence of performance at BSc and MSc or equivalent and the contact details of two referees should be sent, via e-mail (in word or PDF only) to Professor Dónal Leech (donal.leech@nuigalway.ie)
Selected Recent Biomolecular Electronics Research Laboratory Publications

- Xiao, XX; Siepenkoetter, T; Conghaile, PO; Leech, D; Magner, E (2018) 'Nanoporous Gold-Based Biofuel Cells on Contact Lenses'. ACS Applied Materials & Interfaces, 10 :7107-7116.


- Kavanagh, P, Botting, CH, Jana, PS, Leech, D, Abram, F (2016) 'Comparative Proteomics Implicates a Role for Multiple Secretion Systems in Electrode-Respiring Geobacter sulfurreducens Biofilms'. Journal Of Proteome Research, 15 :4135-4145.

