

## Ph.D Studentship Available

*'New electrodes for an old problem: tailormaking electrode surfaces for enhanced electrochemical water splitting, molecular oxygen reduction and alcohol electro-oxidation'*.

A 4 year PhD Studentship (€16,000 stipend plus fees) in Physical & Materials Electrochemistry, funded by the School of Chemistry & TCD is available within the Trinity Electrochemical Energy Conversion & Electrocatalysis (TEECE) Group headed by Professor Mike Lyons, School of Chemistry & AMBER National Centre, Trinity College, Dublin 2, Ireland.

The research project will focus on the fabrication and characterization (electrochemical, microscopic and spectroscopic) of modified electrodes for the catalysis of kinetically demanding multistep reactions such as oxygen evolution, oxygen reduction and ethanol oxidation which underpin the operation of electrochemical hydrogen generators and advanced direct alcohol fuel cells. Emphasis will focus on electrodes modified with hydrated metal oxide nanoclusters and nanoflakes.

The successful applicant will have a strong background in Physical/Materials Chemistry, Physics, Nanoscience, Materials Science or Chemical Engineering, be goal focused and independent, and be willing to work in a multidisciplinary and international team.

Please send completed applications (CV, statement of research interests and details of two referees) by email to:

Professor Mike Lyons, School of Chemistry & AMBER National Centre, Trinity College Dublin, Dublin 2, Ireland. Email: [melyons@tcd.ie](mailto:melyons@tcd.ie).