



PhD Position Available in Trinity College Dublin (September 2018)

Applications from highly motivated students are invited for a fully funded 4-year PhD position in the *Computational Catalysis and Energy Materials* (CEM) Group led by Dr. Max García-Melchor. This position is open to both EU and Non-EU candidates and includes an annual stipend of €16,000 (+ academic fees) for four years. The position has been generously funded through alumni donations and Trinity's Commercial Revenue Unit and is one of the 40 prestigious Provost's PhD Project Awards offered across a wide variety of disciplines.

Project

The successful candidate will be involved in an innovative and challenging research project on "**High-Throughput Screening of Hybrid Materials for Sustainable Energy Applications**". S/he will be directly supervised by Dr. García-Melchor and will receive a unique training in the modelling of molecular and heterogeneous catalysts. The candidate will also be instructed in the use of cutting-edge supercomputing facilities based at the Trinity Centre for High-Performance Computing (TCHPC) and the Irish Centre of High-End Computing (ICHEC), which the CCEM group has access to.

Responsibilities and Conditions

The successful candidate will join an exciting and dynamic research team and will be encouraged to develop her/his chemical knowledge, and technical and transferable skills. S/he will attend courses on the Dublin Chemistry Programme, group meetings, seminars, and international conferences. This PhD award will allow the candidate to develop advanced computational chemistry skills and gain particular expertise in the modelling of (electro)catalytic processes. On graduation, the candidate should be well placed to pursue a career in either the materials science industry or in academia.

Eligibility Criteria

Applications are welcome from strongly motivated candidates with, or expecting to gain, a first or upper second class honours (or equivalent) BSc and/or MSc in Chemistry, Computational Chemistry, Nanoscience, or related discipline. Previous experience in molecular modelling and programming will be a plus. Good oral and written communication skills in English are required.

Application Process

Applications must include a cover letter, CV (resume), and the contact details of at least 2 referees. **Documents should be emailed** to Dr. García-Melchor (garciamm@tcd.ie) **by May 31st, 2018 at 5 pm Dublin local time**. Shortlisted candidates may be interviewed at Trinity or remotely via Skype. All candidates will be notified of the application outcome in due course. For further details, see:

<http://www.chemistry.tcd.ie/staff/academic/garciamm/>

http://www.tcd.ie/Graduate_Studies/students/prospective/apply/