



Trinity College Dublin
Coláiste na Tríonóide, Baile Átha Cliath
The University of Dublin



Computational Catalysis
and Energy Materials

2 PhD Positions Available in Trinity College Dublin

Applications from outstanding and highly motivated students are invited for two fully funded 4-year PhD positions (€18,500/year + academic fees) to join the [Computational Catalysis and Energy Materials](#) (CEM) group led by Prof. Max García-Melchor in the School of Chemistry of Trinity College Dublin.

Project Description

The PhD project will involve the use of state-of-the-art computational methods and machine learning algorithms to accelerate the design of cost-effective water oxidation electrocatalysts to produce green hydrogen. This research will be conducted in the CCEM group, an international and dynamic research team. The successful applicants will be trained to the highest standards and encouraged to further develop their technical and transferable skills by enrolling in courses as part of the Dublin Chemistry Programme and by attending group meetings, seminars, and national and international conferences.

Eligibility Criteria

The ideal candidates will have a first-class honours (or equivalent) BSc and/or MSc in Chemistry, Physics, Computational Chemistry, Nanoscience, Chemical Engineering, or related discipline. Good oral and written communication skills in English are required. Previous experience in molecular modelling and programming is highly desirable. Applications from female candidates and those from under-represented backgrounds are encouraged. Trinity College Dublin is an equal opportunities employer and is committed to the continued development of employment policies, procedures and practices which do not discriminate on grounds such as gender, civil status, family status, ethnicity, age, disability, sexual orientation, religion, or membership of the Travelling community.

How to Apply

A one-page cover letter, CV, and contact details of two academic references should be emailed to Prof. García-Melchor (garciamm@tcd.ie). Shortlisted candidates may be interviewed virtually.

Positions will remain opened until filled. The preferred start date is **October 2021**, although there is some flexibility. Only short-listed applications will be acknowledged.