

Applications are invited for the following a PhD studentship for the following project:

Accelerated Computational Rational Design of (Electro)Catalysis for Energy Storage and Conversion

The position will be based with the Computational Catalysis and Energy Materials (CCEM) Group led by Prof. Max García-Melchor in the School of Chemistry of Trinity College Dublin and within the Advanced Materials and Bioengineering Research Centre (AMBER) centre.

Summary of project

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 electrocatalysts for the sustainable production of chemical feedstocks and energy carriers. This research will be conducted in the CCEM group, an exciting and dynamic research team. The successful applicant will be trained to the highest standards and encouraged to develop her/his technical and transferable skills. In addition, s/he will attend courses on the Dublin Chemistry Programme, group meetings, seminars, and international conferences.

For more information please contact Prof. García-Melchor (garciamm@tcd.ie).

The ideal applicants will have a first class honours (or equivalent) BSc and/or MSc in Chemistry, Computational Chemistry, Nanoscience, Chemical Engineering, or related discipline before the starting date. Good oral and written communication skills in English are required. Previous experience in molecular modelling and programming languages would be advantageous but not essential.

How to apply:

CVs with the names and addresses of three referees should be submitted to:

[Prof. Max García-Melchor, garciamm@tcd.ie](mailto:garciamm@tcd.ie)

Positions will remain opened until filled but preferred start date is *September 2 2020*. Only short-listed applications will be acknowledged.

This position is funded by AMBER, SFI Research Centre for Advanced Materials and BioEngineering Research & CRANN Institute. The AMBER research centre, as a community of researchers, welcomes its responsibility to provide equal opportunities for all. We are actively seeking diversity in our research teams and particularly encourage applications from underrepresented groups.