



PhD Scholarships on Electrosynthesis of Ammonia at UNSW

We are looking for a PhD candidate to work on an Australian Research Council-funded project in Electrochemical Nitrogen Reduction in the School of Chemistry of the University of New South Wales (Sydney, Australia).

Please apply if you have a passion for research and wish to pursue a career in the fields of clean energy and sustainability such as:

- ✓ Energy storage and conversion
- ✓ Hydrogen economy
- ✓ Decarbonisation technologies

The successful applicant will:

- ✓ Develop catalysts for electrochemical ammonia production in aqueous and non-aqueous electrolytes
- ✓ Elucidate structure to performance relationship by advanced characterisation tools
- ✓ Develop *In-situ/operando* ammonia detection methods

Qualifications:

- ✓ Master's degree or 1st Class Honours in Chemistry, Electrochemistry, Chemical Engineering, Materials Science, or a similar discipline

Desired skills:

- ✓ Knowledge of catalysis, electrochemical processes such as water splitting, CO₂ reduction, or batteries
- ✓ Demonstrated experience in conducting research projects and publishing research papers
- ✓ Excellent spoken and written English

The scholarships are available immediately. Candidates interested in these positions are welcome to contact Prof Chuan Zhao (chuan.zhao@unsw.edu.au) via email, and attach a CV, cover letter, and other relevant information.

ABOUT UNSW

The University of New South Wales (UNSW) is one of the leading universities in Australia and is the 44th best university in the world (2021 QS World University Rankings). The School of Chemistry is in the UNSW Kensington Campus, within easy reach of Sydney's CBD, sandy beaches and national parks. Sydney is consistently rated as one of the world's most liveable cities.

ABOUT THE NANOELECTROCHEMISTRY GROUP

The NanoElectroChemistry Lab in the School of Chemistry at UNSW is led by Professor Chuan Zhao and composed of ~20 enthusiastic researchers from 8 countries. The group is one of the leaders in electrochemistry and nanomaterials in Australia and publishes regularly in highly respected journals. The group also has strong links with the industry and has several patents successfully commercialised.