



## PhD Scholarships on Water Electrolysis at UNSW

We are looking for a PhD candidate to fill in an Australian Research Council-funded project on Electrochemical Water Splitting in the School of Chemistry of University of New South Wales (Sydney, Australia) and ARC Training Centre for the Global Hydrogen Economy.

**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:**

- ✓ Electrochemistry and electrocatalysis
- ✓ Green hydrogen technologies
- ✓ Energy conversion and Storage

**The successful applicant will:**

- ✓ Synthesize efficient electrocatalysts based on noble metals and nonprecious metals
- ✓ Test the electrocatalytic performance in electrochemical cells and water electrolyzers
- ✓ Evaluate electrocatalysts structures via advanced characterization techniques

**Qualifications:**

- ✓ Master's degree or 1<sup>st</sup> Class Honours Degree in Chemistry, Electrochemistry, Chemical Engineering, Materials Science, or similar disciplines

**Desired skills:**

- ✓ Knowledge of electrochemical systems, inorganic synthesis, (electro)catalytic reactions
- ✓ Familiar with energy conversion and storage technologies such hydrogen fuel cell, electrolyser, or batteries
- ✓ Demonstrated experience in conducting research projects and publishing research papers in respected journals
- ✓ Excellent spoken and written English

The positions are available immediately. Candidates interested in these positions are welcome to contact Prof Chuan Zhao ([chuan.zhao@unsw.edu.au](mailto:chuan.zhao@unsw.edu.au)) or Dr Kamran Dastafkan ([k.dastafkan@unsw.edu.au](mailto:k.dastafkan@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 the global university in Australia. With high rankings of 4<sup>th</sup> in Australia and 44<sup>th</sup> in the world (2021 QS World University Rankings), UNSW is one of the leading universities worldwide. The School of Chemistry is in the UNSW Kensington Campus, within easy reach of Sydney's CBD, sandy beaches, and national parks. Sydney is also 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.