POSITION DESCRIPTION

Postdoctoral Research Associate

Position Level: A
Faculty/Division: Science
Position Number: 00049197
Original document creation: 20/12/2021

Position Summary

A Postdoctoral Research Associate with electrochemical expertise is needed for the Smart Materials and Surfaces research group in the School of Chemistry at UNSW to be part of a larger multidisciplinary team.

This Postdoctoral Research Associate position relates to an ARC Discovery grant on mesoporous materials for electrocatalysis. The Postdoctoral Research Associate role will focus on electrocatalysis research with an emphasis on fundamental electrochemical measurements in electrocatalysis for characterising new materials.

The role of Postdoctoral Research Associate reports to Professor Richard Tilley and has no direct reports.

Accountabilities

Specific accountabilities for this role include:

- Conduct research in the area of electrochemistry and electrocatalysis.
- Perform and supervise experiments in electrochemical evaluation of catalytic materials.
- Write and maintain laboratory notebooks detailing all experiments conducted.
- Successfully complete experiments and on-time provision of analysis on results.
- Analyse and write results of experiments in a format suitable for publication in peer reviewed journals.
- Contribute to the writing of scientific papers and reports for international journals and progress reporting to other researchers and industry partners.
- Contribute to the preparation of research proposal submissions to funding bodies and actively seek collaboration with industry partners as appropriate.
• Assist with the coordination of research activities and actively contribute to research outputs to meet project milestones.
• Present results of experiments at national and international conferences.
• Assist in the training of PhD and honours students.
• Align with and actively demonstrate the UNSW Values in Action: Our Behaviours and the UNSW Code of Conduct.
• Cooperate with all health and safety policies and procedures of the university and take all reasonable care to ensure that your actions or omissions do not impact on the health and safety of yourself or others.

Skills and Experience
• PhD specialising in electrochemistry.
• Demonstrated ability to develop electrochemical procedures for materials characterisation.
• Extensive experience in performing electrochemical measurements.
• Demonstrated experience in materials synthesis.
• Previous experience in a research environment and in training PhD and Honours Students.
• Ability to work in a multidisciplinary team.
• Excellent verbal and written communication skills.
• An understanding of and commitment to UNSW’s aims, objectives and values in action, together with relevant policies and guidelines.
• Knowledge of health and safety responsibilities and commitment to attending relevant health and safety training.

About this document
This Position Description outlines the objectives, desired outcomes, key responsibilities, accountabilities, required skills, experience and desired behaviours required to successfully perform the role.

This template is not intended to limit the scope or accountabilities of the position. Characteristics of the position may be altered in accordance with the changing requirements of the role.