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POSITION DESCRIPTION

Postdoctoral Fellow

Position Level	A
Faculty/Division	Science
Position Number	00204992
Original document creation	07/11/ 2024

Position Summary

The Postdoctoral Fellow works on development of novel catalysts and electrolytes for electrochemical CO₂ reduction and energy conversion and is responsible for prototyping, verification, and validation testing, and facilitating scaled up installations. The Postdoctoral Fellow will also assess key metrics of efficiency and durability and relate these metrics to product performance and life cycle cost and develop relevant experiments under schedule constraints.

This position is based in the School of Chemistry at the University of New South Wales, Sydney.

The role of Postdoctoral Fellow reports to Professor Chuan Zhao and has no direct reports.

Accountabilities

Specific accountabilities for this role include:

- Prepare and maintain experimental materials, equipment and data.
- Prepare manuscripts for publication in peer-reviewed journals.
- Prototype electrochemical devices based on research results.
- Undertake additional research responsibilities within the field of expertise.
- Actively apply for external grants and fellowships with support from supervisor.

- Assist with the supervision of HDR and project students in the electrochemical energy conversion and storage.
- Assist with lab management including instrument maintenance, trouble shooting and contacting service providers when required.
- Align with and actively demonstrate the [Code of Conduct and Values](#).
- 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

- A PhD in Chemistry, Chemical Engineering or Materials Science.
- Demonstrated prior research experience in electrochemistry work.
- Demonstrated experience in conducting a research project (including experiment design, data collection, and record keeping).
- Demonstrated ability to complete projects in a timely manner and submit reports.
- Proven commitment to proactively keeping up to date with discipline knowledge and developments.
- Demonstrated ability to undertake high quality academic research and conduct independent research with limited supervision.
- Demonstrated track record of publications in high-impact journals and conference presentations relative to opportunity.
- Demonstrated ability to work in a team, collaborate across disciplines and build effective relationships.
- Evidence of highly developed interpersonal skills.
- Demonstrated ability to communicate and interact with a diverse range of stakeholders and students.
- 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.

Pre-employment checks required for this position

- Verification of qualifications

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.