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POSITION DESCRIPTION

Postdoctoral Fellow

Position Level	A
Faculty/Division	Engineering
Position Number	00204329
Original document creation	21/10/ 2024

Position Summary

The **Post-Doctoral Fellow (Level A)** is expected to contribute towards the research effort of UNSW in the field of Floating photovoltaic (PV) system design and connection, hydrogen electrolyser analysis, assessment and evaluation, PV-Load connection and optimisation, thin film chalcogenide materials and devices, and to develop their research expertise through the pursuit of defined projects relevant to their particular field of research.

The role of Post-Doctoral Fellow reports to Dr Kaiwen Sun and has no direct reports.

Accountabilities

- Contribute independently or as a team member in collaborative research with a focus to enhance the quality of research outcomes in the discipline area.
- Conduct research (as per the norms of the discipline) and/or enable research teams to create scholarly output that is recognised by peers.
- Undertake specific research project/s under the guidance of a research leader and contribute to development of research activities.
- Undertake discipline-appropriate research activities, e.g. surveys, literature reviews, data gathering, and/or recording of results using appropriate research methods.
- Support the dissemination of research outcomes through appropriate channels and outlets.
- Participate in and/or present at conferences and/or workshops relevant to the project as required.
- Assist with the supervision of research students in the research area where required.

Skills and Experience

- A PhD in electrical or electronic engineering, photovoltaic, material, physics, chemistry, or related discipline. Work experience in fabrication and characterisation of chalcogenide thin film materials for PV devices and Photoelectrochemical devices or PV system design especially floating PV system, or PV-Load connection and optimisation for desired and maximum output.
- Demonstrated track record in research with outcomes of high quality and high impact with clear evidence of the desire and ability to continually achieve research excellence as well as the capacity for research leadership.
- Proven commitment to proactively keeping up to date with discipline knowledge and developments.
- Demonstrated ability to work in a team, collaborate across disciplines and build effective relationships.
- Evidence of highly developed interpersonal and organisational skills.
- Demonstrated ability or experience to interact/work with the profession and industry partners and attract funding for learning and teaching initiatives.
- 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.