POSITION DESCRIPTION

Research Associate
Signal processing / Machine learning

Position Summary
The Research Associate position is situated within the Engineering and Information Technology. As a member of a research team, the Research Associate will undertake research as directed by the Chief Investigator (CI). The position will involve research activity in multidisciplinary settings requiring skills in signal processing and machine learning. The Research Associate will contribute to the development of research results and their publication in international journals, participate at a national and/or international conference/s and undertakes a range of teaching duties.

Where negotiated with the Chief Investigator and the Head of School, the Research Associate may undertake teaching responsibilities as appropriate.

The role of Research Associate reports to the Chief Investigator (CI) of the grant.

Accountabilities
Specific accountabilities for this role include:

- Produce and optimise algorithms for signal processing and classification
- Produce and optimise machine learning techniques for data classification
- Perform administration duties
- Perform systems administration duties
- Produce new and modify existing machine learning techniques as needed for the role.
- Program new applications and methods as needed
- Analyse data
- Conduct research as directed by the research team leader.
• Prepare reports summarizing the results gained from the research.
• Prepare journal and conference publications based on the research.
• Contribute to the preparation of research proposal submissions to external funding bodies.
• Contribute to School teaching activities as required.
• Interact with undergraduate and postgraduate students and assist in their supervision.
• Undertake a range of administrative tasks as directed.
• Contribute to the common activities of the School, Faculty and University.
• 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.
• Align with and actively demonstrate the UNSW Values in Action: Our Behaviours and the UNSW Code of Conduct.

Skills and Experience

• A Masters in Electrical Engineering or Computer science that complements the breadth of expertise of the School.
• A demonstrated ability to conduct innovative and independent research.
• A record of papers in high quality journals and/or conferences of high ranking in the field.
• Ability to conduct high quality teaching in a University environment and willingness to undertake teaching duties as required.
• Excellent interpersonal, oral and written communication skills appropriate for interacting effectively team members, collaborators and colleagues across the Faculty.
• Demonstrated ability to work as a member of a multi-disciplinary team showing initiative and taking direction as appropriate to the situation.
• Demonstrated ability to complete tasks within agreed time frames, with suitable supervision.
• Knowledge of health and safety responsibilities and the ability and capacity to implement required UNSW health and safety policies and procedures.

Pre-Employment checks required for this position.

• Verification of Qualifications
• Criminal History Check
• Identification Check

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.