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## POSITION DESCRIPTION

# Research Associate

Faculty/Division	UNSW Canberra
Classification Level	Academic A
Hours & Span (Category)	ACADEMIC POSITION NO SPAN
Position number	00104609
Shiftwork status	NOT SHIFTWORKER
Allowances	NA
On call arrangements	NA
Original document creation	24 January 2025

## Position Summary

The Research Associate position is situated within the School of Engineering and Technology. As a member of a research team, the Research Associate will undertake research as directed by the Lead Investigator. The Research Associate position is situated within the School of Engineering and Technology. The position will involve research activity aimed at achieving demonstration of a decentralized framework for the coordination of swarms of small Uncrewed Aerial Systems (UAS). The incumbent will ideally have skills in developing software for autonomy of UAS. The Research Associate will contribute to the development of research results and their publication in conferences and international journals.

The role of Research Associate reports to the Lead Investigator of the grant.

## Accountabilities

Specific accountabilities for this role include:

- Conduct research as directed by the chief investigators.
- Develop and test algorithmic code in simulation and on real robots.
- Conduct field testing of Uncrewed Systems in indoor and outdoor environments as required.
- Prepare reports summarizing the results gained from the research.
- Prepare journal and conference publications based on the research.
- Mentoring, supervising and providing advice to higher degree research and honours students.
- Undertake a range of administrative tasks as directed.

- Align with and actively demonstrate the [UNSW Values in Action: Our Behaviours](#) and the [UNSW Code of Conduct](#).

## **Skills and Experience**

- A degree in science or engineering with a depth of subsequent relevant experience.
- A higher research degree in a robotics, control or related field or related discipline will be highly regarded.
- Experience with Uncrewed Aerial Systems and/or experiments involving real robotics platforms will be highly regarded.
- Experience in programming (Python, C/C++ or similar) is essential.
- A demonstrated ability to conduct innovative and independent research.
- 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.
- 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
- Criminal History Check
- Identification Check
- Australian Work Rights 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.