

ACADEMIC POSITION SUMMARY

DEPARTMENT/UNIT: School of Physics, ARC Training Centre for CubeSats, UAVs, and Their Applications (CUAVA) **FACULTY:** Faculty of Science

POSITION TITLE: Satellite Systems Engineer

LEVEL: A1 to A8

CLASSIFICATION: Academic

ESSENTIAL FORMAL QUALIFICATIONS:

PhD or equivalent Postgraduate degree Honours degree Other (specify)

Detail: e.g. **BEng or BSc** (ideally Honours) or equivalent and Research-focused Masters or PhD in Aerospace, Electrical, or Mechatronic Engineering or closely-related discipline.

PRIMARY ACTIVITIES AND RESPONSIBILITIES:

ESSENTIAL SKILLS/TECHNIQUES:

- A postgraduate degree in Aerospace, Electrical, or Mechatronic Engineering (or equivalent) with an undergraduate degree in Engineering or Science (or equivalent);
- Demonstrated expertise in designing, building, integrating, testing, and / or flying CubeSats or other small satellites;
- Demonstrated expertise in designing, implementing, and troubleshooting software for satellites;
- Working knowledge of electronics for spacecraft (or similar platform, e.g., UAVs) hardware;
- Excellent interpersonal, verbal, and written communication skills with sound negotiating and conflict resolution skills and a demonstrated level of tact and discretion in dealing with a variety of matters.
- Ability to work both independently and as part of a team, taking initiative and exercising sound judgement in resolving matters that may arise as part of normal daily work.
- Excellent collaboration, time, and workload management skills with demonstrated ability to prioritise effectively, manage multiple tasks, meet deadlines and achieve required outcomes.
- Financial literacy and the ability to develop and manage budgets
- Demonstrated ability to learn and use institutional procedures, policies, and organisation, including developing a working understanding and current knowledge of relevant aspects of the Work Health and Safety Policy and relevant legislation.

ESSENTIAL EXPERIENCE:

- At least 1 year designing, building, integrating, and testing CubeSats or other small satellites,
- At least 1 year designing, building, testing, and integrating instruments or platform (spacecraft or similar platform) system hardware,
- Working knowledge of electronics for spacecraft (or similar platform) hardware
- Writing, developing, implementing, and troubleshooting software;
- Working in a research-intensive environment as a member of a team;
- Experience in a multi-person engineering team for a space project;
- Writing excellent reports and proposals;
- Delivering excellent oral presentations at professional conferences and events;
- Management of the financial, scheduling, and time management aspects of a spacecraft (or similar platform) engineering project.

ESSENTIAL OTHER:

- Demonstrated understanding of the principles of Equal Employment Opportunity and Affirmative Action; and ability to work positively with staff, students, and external people from a diverse range of backgrounds.
- Demonstrated ability to learn and understand WHS responsibilities and to actively ensure the health, safety and wellbeing of yourself and others at work in accordance with your delegated authority.

DESIRABLE:

- Project management or other leadership experience
- Experience in mixed university – industry – government environments and projects, ideally with international links;
- Interest in space industry, development, or applications.