

POSITION DESCRIPTION

Postdoctoral Research Fellow in Algebra



POSITION DETAILS

Position Title	Postdoctoral Research Fellow in Algebra
Classification	Level A
Position Number	NEW
School/Office	Computer, Data and Mathematical Sciences
Division	Provost

POSITION PURPOSE

This research-intensive role requires a forward-thinking, dynamic, and innovative scholar to undertake high-quality research aligned to, and supporting, the strategic priorities of the School or Research Institute. The role contributes to research outputs, grant activity, scholarly dissemination and the research culture of the university under the guidance of a senior academic.

This position is funded by the Australian Research Council Discovery Project DP 230103184 and will contribute to research activities associated with this project, which investigates the graded structure of combinatorial algebras.

KEY ACCOUNTABILITIES

1. Conduct high-quality research under limited supervision, contributing to agreed research projects and programs.
2. Produce scholarly outputs appropriate to career stage, including peer-reviewed publications, reports and other research outputs, and presenting research findings at seminars, workshops and conferences.
3. Contribute to the preparation of research grant applications, tenders and funding proposals.
4. Collaborate effectively with internal and external research partners, including industry, government and community stakeholders where relevant.
5. Occasionally contribute to the University's teaching program in relation to the research project(s) in collaboration with relevant Schools and Faculties where relevant.
6. Contribute to building a positive, inclusive and ethical research culture aligned with University values.
7. Participate in administration and attend meetings as required with the School or Institute, and across the University.

QUALIFICATIONS, EXPERIENCE AND SKILLS

1. A relevant doctoral qualification, or substantial progress toward completion of a PhD in Mathematics or a related field; or a Master's qualification and equivalent research experience.
2. Demonstrated experience in conducting, or the ability to conduct research from inception through to output using mathematical methods and techniques.
3. Evidence of research outputs appropriate to career stage.
4. Willingness to build relationships with the community and industry partners.
5. Excellent written and verbal communication skills, including interpersonal skills and the ability to work effectively in a team. Ability to be highly organised, meet priorities and timelines.
6. Demonstrated experience or capacity as part of a team in writing or contributing to research grant proposals.
7. Demonstrated experience, or potential capacity, in the supervision of honours or higher degree research candidates.

KEY RELATIONSHIPS

1. **This position reports to:** Chief Investigator/ Head of Discipline, Mathematics and Statistics
2. **This position supervises:** Nil
3. **Key internal relationships:**
 - Institute Director, Institute Manager, Institute Researchers, Higher Degree Students, Honours Students, Research Assistants
 - Other staff within the Institute and Western Sydney University
4. **Key external relationships:**
 - Local Community organisations
 - Partner institutions

CHALLENGES

- Navigating competing priorities across a variety of tasks while maintaining scientific integrity.
- Delivering high-quality research through peer-reviewed research outputs
- Navigating institutional processes and expectations
- Engaging in scholarly, research or professional development activities that builds disciplinary expertise and academic reputation.

UNIVERSITY EXPECTATIONS

The University expects that all employees are aware of, and comply with legislation and Western's policies and procedures relevant to the position, including but not limited to:

- Code of Conduct
- Work Health and Safety and Wellbeing Management System
- Enterprise Agreement or Award
- Anti-discrimination principles, Equal Employment Opportunity and staff and student equity.

Approved by: People and Culture Partner

Date: 19 May 2026