ACADEMIC POSITION SUMMARY

DEPARTMENT/UNIT: School of Mathematics and Statistics
FACULTY: Faculty of Science

POSITION TITLE: Research Fellow
LEVEL: B
CLASSIFICATION: Research Only

ESSENTIAL FORMAL QUALIFICATIONS:

- PhD or equivalent
- Postgraduate degree
- Honours degree
- Other (specify)

Detail: PhD in mathematics

PRIMARY ACTIVITIES AND RESPONSIBILITIES:

Conducting research on ARC Discovery Project "Super Duality and Deformations in the Representation Theory of Lie Superalgebras"

Developing and presenting new and innovative ideas;

Publishing articles in international peer-reviewed journals and presenting at conferences;

Writing and contributing to grant submissions;

Supervising Honours students.

ESSENTIAL SKILLS/TECHNIQUES:

- Expertise in Lie theory, representation theory and quantum groups
- Demonstrated ability to conduct high-quality research independently and as part of a research team
- Ability to supervise students at undergraduate and postgraduate level
- Good organisational and administrative skills with attention to detail
- Excellent written and verbal communication skills

ESSENTIAL EXPERIENCE:

- Experience in conducting research in Lie theory or representation theory
- Published papers as sole author or in collaboration in international refereed journals in Lie theory or representation theory
- Experience in research record keeping, preparation of research papers and seminars

ESSENTIAL OTHER:

- Demonstrated understanding of the incorporation into University life of the principles of Equal Employment Opportunity and Affirmative Action; and ability to work positively with staff and students from a diverse range of backgrounds.

- Understand your WHS responsibilities and actively ensure the health, safety and wellbeing of yourself and others at work in accordance with your delegated authority, as described in the University’s WHS Policy and Procedures and role responsibilities

DESIRABLE:
Expertise in geometric representation theory, algebraic geometry, invariant theory, braided tensor categories, and representations of diagram algebras such as the Brauer and BMW algebras.