



## **SELECTION CRITERIA**

**Research Fellow in Lie Theory and Representation Theory**  
**School of Mathematics and Statistics**  
**Faculty of Science**  
**Reference No. 1298/0615**

### **Training/Qualifications**

- PhD in mathematics

### **Skills/Techniques**

1. experience in conducting research in Lie theory and representation theory
2. ability to conduct research either independently or as part of a research team
3. ability to supervise Honours students and postgraduate students
4. good organisational and administrative skills with attention to detail
5. good written and verbal communication skills
6. published papers as sole author or in collaboration in international refereed mathematical journals
7. experience in research record keeping, preparation of research papers and seminars

### **Expertise in at least some of the following areas:**

1. Lie algebras and Lie superalgebras
2. invariant theory
3. geometric representation theory
4. algebraic geometry
5. quantum groups
6. braided tensor categories
7. representations of cellular algebras such as the Brauer and BMW algebras.