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

- **Level B, Full time, fixed-term for 3 years**
- **Join a research group of international reputation and contribute to developing and presenting new and innovative ideas**
- **Full time Fixed term for 3 years, remuneration $114,015 p.a. which includes leave loading and up to 17% super)**

The University of Sydney is Australia's first university and has an outstanding global reputation for academic and research excellence. It employs over 7500 permanent staff, supporting over 52,000 students.

The School of Mathematics and Statistics at the University of Sydney is a leading centre for mathematical research and education in Australia. The School attracts outstanding undergraduate students including many talented students. It has a large cohort of postgraduate research students and many overseas visitors and offers a diverse and world class research environment.

We currently seek a Research Fellow to conduct research on the Australian Research Council Discovery Project "*Symmetry via braiding, diagrammatics and cellularity*" led by Professors Gus Lehrer and Ruibin Zhang.

In this role the candidate will be:
- publishing scholarly papers in international peer-reviewed journals and presenting at conferences
- supervising Honours students and postgraduate students
- developing and presenting new and innovative ideas
- writing and contributing to grant submissions.

To qualify for this position, the candidate will need to demonstrate:
- PhD in mathematics
- experience in conducting research in Lie theory and representation theory
- ability to conduct research either independently or as part of a research team
- ability to supervise Honours students and postgraduate students
- good organisational and administrative skills with attention to detail
- good written and verbal communication skills
- published papers as sole author or in collaboration in international refereed mathematical journals
- experience in research record keeping, preparation of research papers and seminars
- expertise in at least some of the following areas: Lie algebras and Lie superalgebras, invariant theory, geometric representation theory, algebraic geometry, quantum groups, braided tensor categories, and representations of cellular algebras such as the Brauer and BMW algebras.

All applications must be submitted via the University of Sydney careers website. Visit sydney.edu.au/recruitment and search by the reference number for more information and to apply.

CLOSING DATE: 21 August 2015 (11.30pm Sydney time)

The University is an equal opportunity employer committed to equity, diversity and social inclusion. Applications from equity target groups, including women and people with disabilities are encouraged. As the University of Sydney has established a scheme to increase the number of Aboriginal and Torres Strait Islander staff employed across the institution, applications from people of Aboriginal and Torres Strait Islander descent are also encouraged.

The University reserves the right not to proceed with any appointment.