

**Postdoctoral Research Associate, Mathematics and Statistics****ADVERTISEMENT BODY:**

- **Do you want to be part of a vibrant and collegial community of world-class mathematicians and statisticians?**
- **Located at CBD Campus, Camperdown – join a community of world-class mathematical scientists!**
- **Full-time, 24-month fixed term contract. Base salary: \$94,629 p.a. - \$101,018 p.a. (Level A,6+), plus annual leave loading and a generous employer's contribution to superannuation**

**About the opportunity**

We are seeking to appoint a Postdoctoral Research Associate (Level A) to join a new research initiative within The School of Mathematics and Statistics. The Postdoctoral Research Associate in Geometry and Topology will contribute to the Australian Research Council funded research program "Trisections, triangulations and the complexity of manifolds", under the direction of the Chief Investigators, Associate Professor Stephan Tillmann and Dr Jonathan Spreer (University of Sydney) and Professor Hyam Rubinstein (University of Melbourne).

The Research Associate will undertake research in the areas of low dimensional topology and geometric structures, with a focus on connecting geometric structures and topological properties to minimal triangulations of 3-manifolds; development of practical algorithms and new complexity bounds for 3-manifolds and 4-manifolds; construction of computable invariants; and algorithms to recognise fundamental topological properties and structures such as trisections and bundles. In addition, the Research Associate will participate in all aspects of the project; present research results at seminars and conferences; and will, as part of the research team, write scholarly papers for publication in academic journals.

The role will require carrying out scientific research and preparing and presenting scientific results in papers and conferences, co-supervising undergraduate and graduate research students, assisting in the recruitment of research students and continuously working towards attracting new funding. Additionally, you will help to coordinate the research of different researchers.

**About you**

The University values courage and creativity; openness and engagement; inclusion and diversity; and respect and integrity. As such, we see the importance of recruiting talent aligned to these values and are looking for a **Postdoctoral Research Associate** who possesses experience in the following areas:

- A PhD in mathematics (and a publication record in geometry and topology is required)
- Proven research ability, and evidence of self-motivation and research potential
- Excellent written and oral communications skills with interacting with a variety of researchers and stakeholders
- A demonstrated excellence in research within mathematics and statistics through published research in refereed journals
- Proven ability to prove theorems
- Proven ability to write and contribute to mathematical research papers

**About us**

We're Australia's first university and have a global reputation for academic and research excellence. Across our campuses, we employ over 6000 academic and non-academic staff who support over 60,000 students.

The School of Mathematics and Statistics is a leading centre for research and education in the mathematical sciences in Australia. We attract outstanding undergraduate students and have a large cohort of postgraduate research students. The large cohort of postgraduate research students and many overseas visitors benefit from, and help to sustain, a world-class research environment. The School attracts significant research funding in the form of Australian Research Council grants, fellowships, and other competitive external funding and is home to the University of Sydney Mathematical Research Institute which has attracted \$6.5M of philanthropic funding to date.

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. The University of Sydney has established a scheme to increase the number of Aboriginal and Torres Strait Islander staff employed across the institution, and applications from people of Aboriginal and Torres Strait Islander descent are also encouraged.

Late applications will be accepted but cannot be guaranteed consideration. Applicants seeking appointment at higher levels than those advertised should in the first instance contact the Head of School for a discussion. The University reserves the right not to proceed with any appointment.

### How to apply

For more information on the position and University, please view the listing on the University of Sydney careers website.

**All applications must be submitted via the University of Sydney careers website.** Visit [sydney.edu.au/recruitment](https://sydney.edu.au/recruitment) and search by the reference number **2762/1219F** to apply.

**Closing date: 11:30pm, Thursday 16 January 2020 (Sydney Time)**

The University of Sydney is committed to diversity and social inclusion. Applications from people of culturally and linguistically diverse backgrounds; equity target groups including women, people with disabilities, people who identify as LGBTIQ; and people of Aboriginal and Torres Strait Islander descent, are encouraged.