POSITION DESCRIPTION

Position Title: Postdoctoral Research Fellow
Organisation Unit: School of Mathematics and Physics
Position Number: TBA
Type of Employment: Full time. Fixed term for 2 years.
Classification: Academic Level A

THE UNIVERSITY OF QUEENSLAND

The University of Queensland (UQ) contributes positively to society by engaging in the creation, preservation, transfer and application of knowledge. UQ helps shape the future by bringing together and developing leaders in their fields to inspire the next generation and to advance ideas that benefit the world. UQ strives for the personal and professional success of its students, staff and alumni. For more than a century, we have educated and worked with outstanding people to deliver **knowledge leadership for a better world**.

UQ ranks in the world’s top universities, as measured by several key independent ranking, including the Performance Ranking of Scientific Papers for World Universities (43), the US News Best Global Universities Rankings (52), QS World University Rankings (47), Academic Ranking of World Universities (55), and the Times Higher Education World University Rankings (60). UQ again topped the nation in the prestigious Nature Index and our Life Sciences subject field ranking in the Academic Ranking of World Universities was the highest in Australia at 20.

UQ has an outstanding reputation for the quality of its teachers, its educational programs and employment outcomes for its students. Our students remain at the heart of what we do. The UQ experience – the UQ Advantage – is distinguished by a research enriched curriculum, international collaborations, industry engagement and opportunities that nurture and develop future leaders. UQ has a strong focus on teaching excellence, winning more national teaching excellence awards than any other in the country and attracting the majority of Queensland’s highest academic achievers, as well as top interstate and overseas students.

UQ is one of Australia’s Group of Eight, a charter member of edX and a founding member of Universitas 21, an international consortium of leading research-intensive universities.

Our 50,000-plus strong student community includes more than 13,000 postgraduate scholars and more than 12,000 international students from 144 countries, adding to its proud 240,000-plus alumni. The University has about 7,000 academic and professional staff and a $1.8 billion annual operating budget. Its major campuses are at St Lucia, Gatton and Herston, in addition to teaching and research sites around Queensland and Brisbane city. The University has six Faculties and four University-level Institutes. The Institutes, funded by government and industry grants, philanthropy and commercialisation activities, have built scale and focus in research areas in neuroscience, biomolecular and biomedical sciences, sustainable minerals, bioengineering and nanotechnology, as well as social science research.
UQ has an outstanding track-record in commercialisation of our innovation with major technologies employed across the globe and integral to gross product sales of $11billion+ (see http://uniquest.com.au/our-track-record).

UQ has a rapidly growing record of attracting philanthropic support for its activities and this will be a strategic focus going forward.

**Organisational Environment**

The School of Mathematics and Physics is a School within the Faculty of Science at the University of Queensland. The Discipline of Mathematics is located in the School of Mathematics and Physics. It is the leading provider of tertiary mathematics education in Queensland. Undergraduate programs offered are BMath, BSc, BA (each with an Honours year) and BAdvSci; Coursework degrees (MSc, MFinMath, MDataSc) and research degrees (MPhil and PhD) are offered at postgraduate level.

The Discipline is internationally recognised for its research excellence and hosts a number of first class research centres. Research is carried out at the cutting edge across a broad spectrum of areas in Mathematics and Statistics.

The position is based at the St. Lucia campus of The University of Queensland, one of the most spacious and attractive university campuses in Australia. The campus is centrally located near major public transport routes.

Details of the research interests of academic staff may be accessed on the school’s web site at http://www.smp.uq.edu.au/

Information about the Faculty and the School may be accessed on the Faculty’s web site at http://www.uq.edu.au/faculty-school.

**Information for Prospective Staff**

Information about life at UQ including staff benefits, relocation and UQ campuses is available at - http://www.uq.edu.au/current-staff/working-at-uq

The University of Queensland Enterprise Agreement outlines the position classification standards for Levels A to E.

**DUTY STATEMENT**

**Primary Purpose of Position**

To carry out research on the geometry of homogeneous spaces.

**Duties**

Duties and responsibilities include, but are not limited to:

**Research**

- Contribute to the research program in Homogeneous Geometry in the Mathematics Discipline.
- Publish scholarly, peer-reviewed papers in high quality international journals and present research findings at scientific conferences, seminars, and other relevant forums.
- Work with colleagues and postgraduates in the development of joint research projects
- Participate in the activities of the research group

**Service and Engagement**
- Perform a range of administrative functions in the School
- Contribute to the processes that enable the academic team to manage the work of the School, including participation in School decision-making
- Foster the School’s relations with industry, government departments, professional bodies and the wider community
- Any other duties as reasonably directed by your supervisor

**Other**
Ensure you are aware of and comply with legislation and University policy relevant to the duties undertaken, including but not exclusive to:
- the *University’s Code of Conduct*
- requirements of the Queensland occupational health and safety (OH&S) legislation and related *OH&S responsibilities and procedures* developed by the University or Institute/School
- the adoption of sustainable practices in all work activities and compliance with associated legislation and related University *sustainability responsibilities and procedures*
- requirements of the Education Services for Overseas Students Act 2000, the National Code 2007 and associated legislation, and related *responsibilities and procedures* developed by the University

**Organisational Relationships**
The position reports to Dr Artem Pulemotov, ARC DECRA Fellow.

**SELECTION CRITERIA**

*Essential*
- PhD in Mathematics or a related discipline.
- Demonstrated ability to carry out high-quality research in geometry
- Ability to work collaboratively with colleagues
- Ability to take initiative and work independently
- Highly developed interpersonal and written communication skills

*Desirable*
- Proven track record of publication in internationally recognised peer-reviewed journals
• Working knowledge of one or more of the following areas of research:
  o Geometric partial differential equations
  o Lie groups and Lie algebras
  o Representation theory

Please refer to the Criteria for Academic Performance policy PPL 5.70.17 when developing the duties and selection criteria for academic roles

**Qualification Verification**

An appointment to this position is subject to the verification of the highest academic qualification from the conferring institution.

The University of Queensland values diversity and inclusion.

Applications are particularly encouraged from Aboriginal and Torres Strait Islander peoples. Applications are also encouraged from women.