POSITION DESCRIPTION

Position Title: Postdoctoral Research Fellow
Organisation Unit: School of Mathematics and Physics
Position Number: New
Type of Employment: Full time, fixed term for three years
Classification: Academic Level A increment step 8

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 well within the top 100 universities worldwide, measured through a number of major independent university rankings: the Academic Ranking of World Universities, Times Higher Education World University Rankings, US News Best Global Universities Rankings, QS World University Rankings and Performance Ranking of Scientific Papers for World Universities, and is indeed in the top 50 in some of these rankings. In 2013, UQ attracted more Australian Research Council funding than any other Australian university or research body.

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, and a founding member of Universitas 21, an international consortium of leading research-intensive universities. UQ is also the largest university in Queensland.

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 215,000-plus alumni. The University has more than 7,000 academic and professional staff and a $1.6 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.

Organisational Environment

The discipline of Mathematics is located in the School of Mathematics and Physics in the Faculty of Science. It is the leading provider of applied mathematical and statistical education in Queensland, with extensive undergraduate and postgraduate degrees (MPhil and PhD) and coursework. The Discipline is internationally recognised for its research excellence and hosts a number of first-class research centres. 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 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 in multiscale mathematics. To develop models, especially for stochastic systems involving multiple time scales, or space scales, or both.

Duties

Duties and responsibilities include, but are not limited to:

Research
• Conduct research in multiscale mathematics and publish scholarly papers
• Attend and present at conferences and workshops
• Work with colleagues and postgraduate students within the UQ ACEMS group on collaborative research projects

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 participate in School decision-making and serve on School committees
• 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:

- 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 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 Prof. Phil. Pollett.

SELECTION CRITERIA

Essential
- PhD in an area of mathematics/statistics with a specialization in stochastic modelling.
- Expert knowledge of advanced probability.
- An advanced understanding of mathematics, and demonstrated expert knowledge in stochastics modelling.
- Evidence of a contribution to research, including publication of research in peer-reviewed journals.
- Ability to work collaboratively with colleagues.

Desirable
- Awareness of current research in multiscale mathematics and modelling.

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 is committed to equity, diversity and inclusion.