POSITION DESCRIPTION

Position Title: Senior Lecturer in Operations Research
Organisation Unit: School of Mathematics and Physics
Position Number: 
Type of Employment: Part-time (50%) continuing
Classification: Academic Level C (Teaching and Research)

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 (45), QS World University Rankings (48), Academic Ranking of World Universities (55), and the Times Higher Education World University Rankings (69). UQ again topped the nation in the prestigious Nature Index, and our Academic Ranking of World Universities result in the field of Life and Agricultural Sciences is 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 part of 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 and statistics education in Queensland. Undergraduate programs offered are BMath, BSc and BSc with Honours, BA and BA with Honours. Coursework degrees (MSc, MDATASc, MFinMath) 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 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

The School seeks to recruit a part-time staff member with a research program and teaching expertise in Operations Research. The position is required to engage in specialist teaching and curriculum development at undergraduate and postgraduate levels, as well as building and maintaining connections with the industrial mathematics community on behalf of the School, in particular to facilitate project-based research and student placements. In addition the applicant will be required to supervise postgraduate and honours students, conduct high-quality research and perform administrative, outreach and other activities associated with the School.

The University of Queensland is a family-friendly workplace and offers a number of flexible work options to help staff balance their responsibilities at work and at home. Further information can be found here.
Duties

Duties and responsibilities include, but are not limited to:

Teaching and Learning

- Teach and coordinate courses in Operations Research and other areas as required, at an undergraduate and postgraduate level.
- Develop and enhance course material and collaborate in curriculum design.
- Supervise at honours and postgraduate level.
- Where appropriate teach subjects in flexible delivery mode, including the development of online lectures.
- Consult with students.
- Provide support for other positions during absences.
- Make a significant contribution to the development of programs.

Research

- Develop and maintain a research program, supported by external funding.
- Conduct research and publish results of their research in high-quality international journals and other appropriate refereed outlets.
- Develop collaborative research links with other Disciplines, Centres, Schools and Faculties in the University.
- Work with colleagues and postgraduates in the development of joint research projects.
- Participate in academic life of the School and Discipline, including presenting results of their research at international and national meetings and seminars.
- Actively seek and secure external funding through suitable funding agencies or commercial links.
- Obtain and manage significant external research funds.

Service and Engagement

- Foster the School's relations with industry, government departments, professional bodies and the wider community, with an emphasis on liaising and collaborating with external agencies to develop co-operative research and teaching initiatives.
- Perform a range of administrative functions in the School, commensurate with experience and level of appointment.
- Contribute to the processes that enable the academic team to manage the work of the School, including participation in School decision-making and School committees.

Other

- Any other duties as reasonably directed by your supervisor.
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 the Head of School.

SELECTION CRITERIA

- A PhD or equivalent in mathematics or a related discipline, with an established record of original research in Operations Research or a closely related area. Applicants should address how their research complements and supplements our current research strengths.
- Potential or demonstrated ability to attract competitive research grants and/or industry funding.
- At level C, applicants will have demonstrated capacity for independent research, effective collaboration and have a developing international profile. The applicant will have demonstrated national recognition through publication, and where relevant, impact on practice and/or commercialisation.
- Demonstrated high-quality teaching and supervisory experience at undergraduate and postgraduate levels, including Operations Research or a closely related area.
- Demonstrated ability or potential for effectively developing, lecturing and coordinating mathematics courses, including service courses.
- A record of principal supervision of research higher degree (RHD) students and demonstrated improvement of teaching resources, approaches and curriculum development.
- Demonstrated record of active participation in academic service roles.
- A demonstrated ability to establish effective relationships and to represent and promote their academic discipline at a university and wider community level, including industry, government and professional bodies.

Seminar and Lecture

Applicants invited for interview will be expected to present a seminar on their research, and also a short introductory undergraduate-style lecture as part of the selection process.
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

Seminar

Applicants invited for interview may be expected to present a seminar and a short undergraduate-style lecture in conjunction with the selection interview process.

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 and actively encourages applications from those who bring diversity to the University. Please refer to the University’s Diversity and Inclusion webpage (http://www.uq.edu.au/equity) for further information and points of contact if you require additional support.