**POSITION DESCRIPTION**

- **Position Title:** Research Fellow  
- **Organisation Unit:** School of Civil Engineering  
- **Position Number:** NEW  
- **Type of Employment:** Full-Time, Fixed-Term  
- **Classification:** Academic Level B  

## 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 Civil Engineering is one of the largest schools of its kind in Australia. Located in the state-of-the-art, $135 million Advanced Engineering Building, the School passionately delivers world-leading teaching, research, and service. We aspire to be the civil engineering school of choice for students, staff, industry, and the wider community in the fields of water, environmental, geotechnical, structural and transportation engineering.

Our goal is to foster graduates with the technical and professional skills required to lead the civil engineering profession and we aim to re-engineer civil and environmental research to improve the way communities operate and function.

Our academic staff hail from over 24 countries, are widely published and cited, and have extensive research backgrounds in diverse engineering disciplines including coastal, environmental, fire safety, geotechnical, hydraulics, structural, transport, and water resources. These research strengths attract expert academics and students from around the world and provide industry with consulting expertise, research collaboration and testing facilities.

For more information about the School, please visit: [www.civil.uq.edu.au](http://www.civil.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](http://www.uq.edu.au/current-staff/working-at-uq)

The University of Queensland [Enterprise Agreement](http://www.uq.edu.au/current-staff/working-at-uq) outlines the position classification standards for Levels A to E.
DUTY STATEMENT

Primary Purpose of Position

To support the Associate Professor in Transport Engineering with research activities in the domain of modelling mixed traffic (consisting of traditional, connected and automated vehicles), and related topics.

Duties

Duties and responsibilities include, but are not limited to:

Research

- Work closely with the Associate Professor in Transport Engineering and other members in the team on analysing data, documenting research findings, and co-authoring project reports.
- Actively assist in proposal writings and securing external research funding.
- Conduct research and publish scholarly papers in high-quality refereed international journals, books and conference proceedings.
- Present regular research seminars within the group and within the School/Centre and to external stakeholders.
- Build collaborative research projects within the School/Centre, internationally and, if relevant to the area of research, centres and institutes.

Teaching and learning

- Assist with teaching activities as required and contribute to the supervision of honours and postgraduate students.
- As this is a ‘Research focussed’ position there is no formal requirement for undergraduate teaching. However it is encouraged that you actively seek teaching opportunities.
- Participate in events to attract postgraduate students to the Institute.

Service and Engagement

- Support administrative activities, engage in outreach, and the dissemination of research findings.
- 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 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 the Associate Professor in Transport Engineering.
SELECTION CRITERIA

**Essential**

- PhD in the area of in Civil Engineering, Computer Science, Electrical Engineering, Mathematics, Statistics, or related disciplines.
- Demonstrated expert knowledge in at least one of the following topics: traffic flow modelling, control theory, mathematical and statistical modelling, optimisation, or related topics.
- Demonstrated ability of conducting high quality research and publishing research findings in prestigious journals.
- A reliable team player with excellent communication skills (academic writing in particular), and willing to supervise junior researchers.
- Demonstrated high level of drive and enthusiasm.
- Demonstrated ability to work collaboratively with colleagues, administrative, and technical staff.
- Demonstrated high level interpersonal, written and verbal communication skills.
- Demonstrated ability to prioritise own workload, work independently and meet deadlines.
- An ability to establish effective relationships and to represent and promote academic discipline at a university and wider community level, including industry, government and professional bodies.

**Desirable**

- Self-driven with a career development plan in the academia.
- Experience in liaising and collaborating with external agencies to develop co-operative research initiatives.

**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.

This role is a full-time position; however flexible working arrangements may be negotiated.

Accessibility requirements and/or adjustments can be directed to the contact person listed in the job advertisement.