Position Title: Lecturer/Senior Lecturer in Urban Water Engineering
Organisation Unit: Advanced Water Management Centre
Position Number: 3039839
Type of Employment: Full time, fixed term
Classification: Teaching Focussed Academic Level B/C

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 (65). 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 Advanced Water Management Centre (AWMC) is an internationally recognised centre of excellence in innovative water technology and management. The Centre has an outstanding worldwide reputation in urban water management and related fields, and an award winning multidisciplinary team delivers practical technological solutions underpinned by fundamental scientific discoveries.

The Centre has six interlinked programs namely, next generation urban water technologies, integrated urban water management, sewer corrosion and odour management, nexus of urban water, health and environment, resource efficient agri-industry and environmental biotechnology.

Collaborative linkages with industry are strong and solutions developed by the Centre have yielded quantifiable benefits in the order of hundreds of millions of dollars to the Australian water industry and other sectors. At the same time, the AWMC has an outstanding academic publication record, publishing on average more than 100 papers a year in high quality journals including the most prestigious multidisciplinary journals including Nature and Science, and top discipline journals such as Water Research and Environmental Science and Technologies.

The Centre has well-established process, microbiology and analytical labs. The direct collaboration with industry partners has also led to the creation of several field facilities including the Innovation Centre at Queensland Urban Utilities’ Luggage Point Sewage Treatment Plant, supporting technology demonstration at larger scales and under practical conditions.

The Centre recognises and values equity and diversity, and encourages applications from any individual who meets the requirements of this position irrespective of gender, sexuality, race, ethnicity, religion, disability, age or other protected attributes. The Centre strives to provide an inclusive working environment, and along with the University is committed to supporting staff with family and caring responsibilities by providing policies, programs and initiatives to help balance work and family responsibilities.

For more Information about the Centre, please visit: [www.awmc.uq.edu.au](http://www.awmc.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

The purpose of this position is to lead the design and delivery of a new two-year Master of Engineering program in Urban Water Engineering to be launched by AWMC in March 2019. This program aims to train a new generation of urban water engineers to tackle emerging issues and challenges in the modern urban water space. This unique coursework program will provide engineers with the integrated knowledge and skills required to grasp the whole urban water cycle and the linkages between its different aspects. Graduates will be equipped with the skills to design, optimise and manage the urban water infrastructure in the cities of the future.

The role-holder will provide leadership in program and course design and coordination, engagement with industry and other external contributors to the program, and marketing/recruitment of students at both national and international levels.

Duties

Duties and responsibilities include, but are not limited to:

Teaching and Learning
- Direct the new Master of Engineering: Urban Water Engineering program.
- Contribute to the overall design of the Master Program.
- Develop and deliver courses within the new Urban Water Engineering program.
- Develop and implement innovative teaching strategies and methods for the new program.
- Review student applications for entry requirements.
- Actively support student recruitment both nationally and internationally.
- Conduct program reviews and course reviews and address any identified problems in program/course delivery.
- Engage with industry stakeholders and coordinate their contribution to the Master Program, through e.g. guest lectures, workshops, student industry placements.
- Liaise with AWMC researchers to coordinate research placements for students enrolled in the Master Program.

Scholarship of Teaching and Learning
- Design, implement and continuously update innovative teaching and learning strategies.
- Disseminate your work on teaching and learning innovation in high-quality peer reviewed outlets.
- Seek funding to undertake projects that enhance and develop teaching in the discipline.
Service and Engagement

- Contribute to the processes that enable the academic team to manage the work of the Centre, including participate in Centre decision-making and serve on Centre committees.
- Foster the Centre's relations with industry, government departments, professional bodies and the wider community.
- Perform a range of administrative functions in the Centre.
- 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 Centre Director Prof. Zhiguo Yuan.

SELECTION CRITERIA

**Essential**

- A PhD in the area of Chemical Engineering, Environmental Engineering, Biotechnology, or suitable alternative.
- Demonstrated extensive experience in teaching undergraduate courses in water and wastewater engineering.
- In-depth knowledge of urban water engineering, water chemistry and microbiology.
- Track record of generating high-impact publications, either in research or in scholarship of teaching and learning.
- Strong ability to communicate results in different environments (i.e., industry, conferences, etc.).
- Track record of applying for competitive grants in either research or scholarship of teaching and learning.
- Capability to work cooperatively with industry or industry experience.
• Ability to work collaboratively with colleagues.

For Level C, in addition to the above, the following criteria apply:

• Previous experience as a coordinator of teaching programs (undergraduate or graduate).

• Track record of winning competitive grants in either research or scholarship of teaching and learning.

Desirable

• A Graduate Certificate in Higher Education or equivalent postgraduate level teaching and learning training.

• Knowledge of emerging issues in wastewater systems, including emerging contaminants.

• Ability to teach core chemical engineering courses, including unit operations, reaction engineering and process modelling and control.

For Level C, in addition to the above, the following criteria apply:

• Previous experience with coordination of a Master program in a closely related field.

Seminar

Applicants invited for interview may be expected to present a seminar 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.

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