

## POSITION DESCRIPTION

<b>Position Title:</b>	Senior Lecturer – Biomedical Engineering
<b>Organisation Unit:</b>	School of Chemical Engineering
<b>Position Number:</b>	
<b>Type of Employment:</b>	Full-time, Continuing
<b>Classification:</b>	Teaching and Research Academic Level 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 among the world's top universities, as measured by several key independent rankings, including the CWTS Leiden Ranking (31), U.S. News Best Global Universities Rankings (36), the Performance Ranking of Scientific Papers for World Universities (39), QS World University Rankings (46), Academic Ranking of World Universities (54), and Times Higher Education World University Rankings (62).

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 53,000-plus strong student community includes more than 16,400 postgraduate scholars and more than 17,000 international students from 135 countries, adding to its proud 260,000-plus alumni. The University has more than 6,600 academic and professional staff (full-time equivalent) and a \$2.15 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 \$11 billion+.

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 Chemical Engineering is an international leader in the chemical engineering field and has an excellent reputation, built over 100 years at The University of Queensland.

We deliver quality programs and leadership in chemical engineering education, research and development, and expert consulting to support the process industries. Undergraduate teaching within the School focuses on the disciplines of chemical, bioprocess, biomedical, environmental and metallurgical engineering and postgraduate programs are available in growing fields including water, sustainable energy, bioprocess and biomedical engineering. The School's project-centered curriculum has been recognised as an international exemplar of engineering education.

Worldwide, UQ Chemical Engineering was ranked 38th in the QS World University Rankings 2020 for Chemical Engineering. Central to the School's success are our staff, specifically the academic, research and professional staff. They are engaged in pioneering teaching and research crossing traditional disciplinary boundaries, mindful of their role in addressing the big challenges that lie ahead.

Catalysed by our move to a new home for Chemical Engineering at UQ in 2021, the soon to be completed eleven story, state-of-the-art Andrew N. Liveris Building, the School is entering an exciting growth and rejuvenation phase. We are wanting to recruit new staff who are passionate and committed to building on our long-standing acknowledged successes in cutting-edge teaching and learning, research impact and industry and public sector engagement, to further increase our local and international impact in learning and discovery in chemical engineering.

Our people are our greatest asset. We offer collaborative, inclusive work and study places, which are enriched by the significant diversity of our staff, students and community. We genuinely believe that creativity and innovation flourishes in an environment where people feel supported, valued and empowered. Mutual respect, inclusivity and accountability are at the cornerstone of UQ's culture.

The School of Chemical Engineering is committed to supporting the career growth of women academics and have a number of initiatives to support women in developing and achieving a fulfilling career within the School.

For more information about the School, please visit: [www.uq.edu.au/chemeng](http://www.uq.edu.au/chemeng)

## **Information for Prospective Staff**

The School of Chemical Engineering 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 School of Chemical Engineering 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.

Further 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 engage, as a senior lecturer, in undergraduate and postgraduate teaching in core Chemical Engineering courses and the School's Biomedical Engineering Majors and Masters programs, as well as performing research, postgraduate supervision, engagement, administrative and other activities associated with the School.

### **Duties**

Duties and responsibilities include, but are not limited to:

#### **Teaching and Learning**

- Coordinate and teach into undergraduate and postgraduate courses in the School of Chemical Engineering's various bachelor and master level programs and other programs, including courses in the Faculty's "common first year" engineering program;
- Provide leadership in developing scholarly teaching programs in Chemical Engineering and Biomedical Engineering at both the undergraduate and postgraduate level;
- Teach and supervise students at honours and postgraduate levels;

#### **Research**

- Develop a research program and lead a research team focused on fields related to Biomedical Engineering, including, for example, biomaterials, BioMEMs, cell therapies, tissue engineering and regenerative medicine, and publish scholarly papers in high quality outlets in these domains;
- Work with colleagues and postgraduates in the development of collaborative research projects, and foster the research activities of others;
- Contribute as a chief investigator to collaborations that yield new insights and opportunities, obtain and successfully manage external competitive research grants, and have a national reputation for quality and impact of work through publications.

#### **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, student advising and mentoring, and serve on School committees;
- Actively participate in the School's engagement activities 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 Head of School.

## **SELECTION CRITERIA**

### **Essential**

- A Bachelors degree in Chemical Engineering;
- PhD in the area of Biomedical Engineering;
- Demonstrated knowledge of and experience in all modes of teaching and a record of accomplishment of high-quality teaching in Chemical Engineering, with experience in the field of Biomedical Engineering, at undergraduate and postgraduate levels;
- 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;
- Excellent communication and interpersonal skills with an exemplified ability to work collaboratively and establish a rapport and good working relationships with undergraduate and postgraduate students, and academic and professional staff;
- Exemplified engagement and mentoring skills towards early career academics and researchers;
- Demonstrated ability to develop innovative research programs in the fields related to Biomedical Engineering, including, for example, biomaterials, bioMEMs, cell therapies, tissue engineering and regenerative medicine;
- Established national and developing international recognition and a profile for research in the fields related to Biomedical Engineering, including, for example, biomaterials, bioMEMs, cell therapies, tissue engineering and regenerative medicine;
- Strong history of internationally peer-reviewed publications in high ranking refereed journals in the categories of Chemical Engineering and Biomedical Engineering;
- Demonstrated capacity for independent research and to obtain and successfully manage external research funds, including contributions as a chief investigator and collaborations which yield new insights and opportunities;
- Demonstrated active and effective record of contribution to supervision of honours and postgraduate students, as measured in contributions from supervised students in

journal publications, conference presentations, and industry cooperation within Chemical Engineering and related Biomedical Engineering disciplines;

### **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.**

**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.**