

## POSITION DESCRIPTION

<b>Position Title:</b>	Lecturer/Senior Lecturer (Teaching Focussed)
<b>Organisation Unit:</b>	School of Mathematics and Physics
<b>Position Number:</b>	3066760
<b>Type of Employment:</b>	Full Time, Continuing
<b>Classification:</b>	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 CWTS Leiden Ranking (32), the Performance Ranking of Scientific Papers for World Universities (40), the US News Best Global Universities Rankings (42), QS World University Rankings (47), Academic Ranking of World Universities (54), and the Times Higher Education World University Rankings (66). Excluding the award component, UQ is now ranked 45<sup>th</sup> in the world in the ARWU, and is one of the only two Australian universities to be included in the global top 50.

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 \$11billion+.

UQ has a rapidly growing record of attracting philanthropic support for its activities and this will be a strategic focus going forward.

## **Organisational Environment**

UQ's Faculty of Science is one of the largest Science groupings in Australia, with approximately 1100 (equivalent full-time) staff, and about 7500 (equivalent full-time) students. The Faculty encompasses the disciplines of agriculture, biological sciences, chemistry, earth sciences, food sciences, geography, mathematics, physics, planning, and veterinary science. The Faculty's disciplines have a leading international reputation in both research and teaching, with significant ties to industry.

The position is based in the School of Mathematics and Physics 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.

The School of Mathematics and Physics is internationally recognised for its teaching and research excellence. Many staff members in the school have won university and national awards for their teaching innovation and excellence. Details of the teaching and research interests of academic staff may be accessed on the School's web site at <http://www.smp.uq.edu.au/>

The *School of Mathematics and Physics* has a total of 110 full-time academic staff members, and 21 professional staff who provide professional, technical and administrative support. The School teaches a comprehensive undergraduate program in science, mathematics, statistics, and physics, as well as performing service teaching for students of engineering and the life sciences. There is also an extensive postgraduate research program, which currently has more than 100 Research Higher Degree students enrolled.

## **Information for Prospective Staff**

Information about life at UQ including staff benefits, relocation and UQ campuses is [available online](#).

The University of Queensland [Enterprise Agreement](#) outlines the position classification standards for Levels A to E.

## **DUTY STATEMENT**

### **Primary Purpose of Position**

The Faculty of Science is committed to ensuring that its graduates are equipped to succeed in a rapidly changing, highly technological world. The ability to think critically and solve problems, apply high levels of quantitative and mathematical reasoning and develop computer programs are fundamental skills for 21<sup>st</sup> century science graduates. Since 2018, all students enrolled in the Bachelor of Science, Bachelor of Biomedical Science and Bachelor of Advanced Science complete an interdisciplinary course (SCIE1000 or SCIE1100)

covering these core skills, all embedded in the context of current and emerging issues in science.

The primary purpose of this position is initially to conduct and lead the academic efforts associated with the continued development, delivery, monitoring and improvement of these compulsory core courses, with a particular regard to facilitating involvement from experts across a diverse range of science discipline areas. This will include in-class teaching, course coordination, responding to student feedback, updating teaching resources, supervising tutors, setting and grading assessment, working with academic staff from across the faculty, and acting as an advocate for the course in a range of contexts. The appointee will also perform administrative and other activities associated with the School and Faculty, and will be expected to engage in research and/or other appropriate activities in the Scholarship of Teaching and Learning.

In the longer term, the appointee will expand their teaching activities, help determine the long-term strategic direction of science education at UQ, and develop a broader leadership role in scholarship of teaching and learning. They will innovate and contribute to the continued development and improvement of a variety of teaching programs across the School, Faculty and University.

Although the majority of teaching will be at the St Lucia Campus, there will also be a potential need to coordinate and/or deliver components of the course to Science students based at UQ's Gatton Campus.

## **Duties**

Duties and responsibilities include, but are not limited to:

### Teaching and Learning

- Coordinate and teach interdisciplinary undergraduate courses, including courses containing content from science, mathematics and computer programming.
- Develop course material and plan course delivery, including flexible delivery modes.
- Continually improve course curriculum, teaching resources and approaches.
- Provide consultation with students, including academic counseling and advice, as required.
- Liaise with academic staff with discipline expertise in other areas of mathematics and science, as well as those with expertise in the philosophy of science.
- Work with discipline experts to present their research in undergraduate classes in a way that engages and challenges students.
- Maintain discipline currency, for example through Honours, Postgraduate Coursework and/or Higher Degree by Research supervision.

### Scholarship of Teaching and Learning

- Develop collaborative teaching and learning links across and beyond the University, in and outside of the specific teaching discipline.
- Undertake and communicate the outcomes of teaching and learning initiatives and innovations.
- Develop a national profile in science and/or mathematics teaching innovation.

- Seek both internal and external support for the development of teaching and learning initiatives.

#### 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.

#### For Appointment at Level C

The duties as listed above, as well as the following:

- Disseminate work output on the scholarship of teaching and learning via suitable means, such as publishing in high quality peer reviewed outlets and presentation of work at national and international teaching forums.
- Attract funding to undertake projects that enhance and develop teaching
- Perform a range of higher-level internal duties and provide a strong external contribution to service.

#### 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, School of Mathematics and Physics.

## SELECTION CRITERIA

- PhD or equivalent in mathematics, statistics, computer science, science or a closely related area.
- Demonstrated high quality university teaching and coordinating skills in mathematics, statistics, science or a related area.
- Evidence of a willingness and ability to deliver high-quality, large-enrolment, interdisciplinary courses with a significant quantitative component in a collaborative teaching environment.
- Evidence of a willingness and ability to advocate for a deep appreciation of the importance of science, including quantitative aspects, broadly across the university, and in wider society.
- A developing profile in the scholarship of teaching and learning, as evidenced for example by publications, teaching grants and/or engagement in significant teaching innovations.
- A record of active participation in academic administration and service roles.
- A demonstrated ability to work collaboratively with colleagues, in particular in teaching and learning.

### For Appointment at Level C

- Applicants at Level C will be expected to have demonstrated a significant role in the development or coordination of teaching activities and associated improvements in teaching and learning, as well as effective performance of high-level internal service roles.

### **Undergraduate Lecture**

Applicants invited for interview will be expected to present a shortened undergraduate-style lecture as part of the selection 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](#) 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 [recruitment@uq.edu.au](mailto:recruitment@uq.edu.au).*