POSITION DESCRIPTION

Position Title: Five positions - Lecturer/Senior Lecturer/Associate Professor in Computer Science
Organisation Unit: School of Information Technology & Electrical Engineering
Position Number: NEW
Type of Employment: Full-time Continuing
Classification: Academic Level B/C/D

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.

**School of Information Technology & Electrical Engineering**

It is an exciting time to get involved with the School of Information Technology and Electrical Engineering, located on UQ’s St. Lucia campus. The School is ramping up its investment in teaching, research and engagement to create an inspiring, diverse and flexible workplace. The direction is backed by a bold, new strategic vision to ensure the School is at the forefront of meaningful research outcomes and pedagogy across its core impact areas of health, data, automation and energy. Boasting strong student enrolments in professionally accredited programs, combined with world-class researchers and facilities, the School is focused on strengthening its position in the global computer science and engineering communities. By attracting the brightest minds and fostering a truly innovative and collaborative work environment, the School will develop global solutions to contemporary issues and mentor the leaders of tomorrow.

The School 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 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.

Details of the School may be accessed on its website at [http://www.itee.uq.edu.au/](http://www.itee.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 positions (of Lecturer/Senior Lecturer/Associate Professor) are responsible for undertaking research; teaching at undergraduate and postgraduate level including course coordination; higher degree research student supervision; and professional activities in multiple focus areas of Computer Science. The focus areas for the positions are:

1. software engineering, secure program development, formal program verification, program analysis, programming language theory and implementation
2. machine learning, artificial intelligence, data mining, data science, robotics, computer vision, human augmentation, natural language processing, information retrieval
3. computer networks, cyber security, distributed computing, theory of computing, algorithms and complexity, embedded and real-time systems

We seek to appoint researchers with interest and experience in systems thinking and well versed in state-of-art technologies and industry trends.

The appointees will contribute to the University’s strategic initiative on the growth of computer science talent. The appointees will have the opportunity to leverage significant industry and international networks, and work on cutting-edge technologies on the front-line of a number of applications areas including but not limited to energy, biomedicine, health, IoT, transport and utilities, business, and finance.

Duties

Duties and responsibilities include, but are not limited to:

For Appointment at Level B

Teaching and Learning

- Coordinate courses, prepare and deliver lectures and tutorials, and undertake assessment and marking for undergraduate and postgraduate courses.
- Participate in the development of new programs and course material in the area of focus, by consulting with program advisors and stakeholders, ensuring courses are engaging, relevant and contemporary.
- Participate in educational practice and innovative curriculum design including online learning and alternative teaching methods.
- Maintain and improve the quality of courses as measured through evaluation instruments to meet industry and educational standards.
- Understand and apply University Rules relevant to teaching and learning practice.
- Contribute to the teaching and supervision of undergraduate, honours and postgraduate students.
- Provide high quality service to students, including academic counselling and advice.
- Provide support to other academic positions as needed and during absences.
Research

- Engage in independent and/or team research program including external funding, and achieve national recognition and impact in the research area.
- Conduct research and publish scholarly papers in both academic peer-reviewed and professional journals that contribute to the School’s strategic research strengths.
- Work with colleagues and postgraduates in the development and conduct of joint research projects, especially projects that are interdisciplinary and contribute to the strategic direction of the School.

Service and Engagement

- Create, foster and enhance national and international links with relevant industry, government departments, universities, professional bodies and the wider community to assist the advancement of University, Faculty and School strategic objectives.
- 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.
- Perform a range of administrative functions in the School and any other duties as reasonably directed by your supervisor.

For Appointment at Level C

Duties as listed above, in addition to the following:

- Obtain and successfully manage external competitive research grants, and consistently lead successful applications for external competitive research funding.
- Contribute as a chief investigator to collaborations which yield new insights and opportunities.
- Develop an ongoing program of applied research in the research area.
- Have an active and effective record of principal supervision of research higher degree students.

For Appointment at Level D

Duties as listed above, in addition to the following:

- Develop an independent and/or team research program including external funding, and achieve national and international recognition in the research area.
- Lead a research team and foster the research activities of others.
- Develop and maintain significant networks across industries and foster an environment where networks and relationships are built and maintained.
- Make a strong contribution to the governance of the School, including mentoring less experienced staff.
- Show professional leadership and engage with the community and industry.
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 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 positions will report operationally to Research Group Leaders of the focus area most closely related to the appointee.

SELECTION CRITERIA

For Appointment at Level B

Essential

- A PhD in Computer Science or a related field
- A demonstrated knowledge of one or more of the listed focus area/s
- Demonstrated contribution to teaching at undergraduate, honors and postgraduate level
- Track record of publications in reputed refereed journals and conferences
- Evidence of a contribution to research, including successful external grant applications
- Developed industry liaisons and professional contacts
- High level of effective communication and interpersonal skills
- An ability to establish effective relationships and to represent and promote the school at a university and wider community level, including industry, government and professional bodies

Desirable

- Knowledge of state-of-art technologies and industry trends in focus area
- Experience in research prototype and systems development
- Experience in applied research in one or more domain area including but not limited to health, energy and cyber-security
For Appointment at Level C
The criteria as listed above, in addition to the following:

- Track record of supervision of Honours and Research Higher Degree students to successful completion,
- National recognition in the area of expertise and a strong record of publications in reputed refereed journals and conferences
- Evidence of a significant contribution to research, including successful external grant applications
- Developed industry liaisons and professional contacts and experience in liaising and collaborating with external agencies and industry to develop collaborative research initiatives
- Ability to successfully lead a research team

For Appointment at Level D
The criteria as listed above, in addition to the following:

- National and international recognition in the area of expertise and a strong record of publications in reputed refereed journals and conferences
- Strong national and international industry liaisons and professional contacts
- Evidence of outstanding contribution to teaching and research,
- Evidence of high level success in gaining significant external grant funds
- Ability to successfully lead a research team, deliver tangible outputs to industry, and mentor less experienced staff and early career academics

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.