POSITION DESCRIPTION

Position Title: Senior Software Engineer
Organisation Unit: Information Technology Services
Position Number: TBC
Type of Employment: Full time, Fixed-term
Classification: Hew Level 7

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 (43), the US News Best Global Universities Rankings (42), QS World University Rankings (48), Academic Ranking of World Universities (55), and the Times Higher Education World University Rankings (69). Excluding the award component, UQ is now ranked 45th 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 52,000-plus strong student community includes more than 16,400 postgraduate scholars and more than 15,400 international students from 135 countries, adding to its proud 250,000-plus alumni. The University has more than 6,600 academic and professional staff (full-time equivalent) and a $1.75 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+ (see http://uniqest.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 Division of Information Technology Services (ITS) at The University of Queensland provides an information environment that supports the teaching, learning, research and engagement objectives of the University and contributes positively to the student experience and the University’s reputation. It delivers network, systems and IT infrastructure support to the University, and enhances UQ’s capabilities through the deployment of new infrastructure, systems and application development.

The largest central division within UQ and one of the largest employers of IT professionals in Queensland, UQ’s ITS Division has both breadth and depth across all aspects of technology. ITS supports the University with many exciting technologies; artificial intelligence, robotics, IoT, cloud, high performance computing, data analytics, virtual networks, high speed networks and big data are just some of the technologies that are being deployed to support UQ’s dynamic environment and varied stakeholders.

Also located within ITS is the internationally recognised network security group, AusCERT, which provides Internet security services throughout Australia and New Zealand. ITS manages core networks not only for the whole of The University of Queensland but also works with other Queensland universities by managing access to the national university network (AARNet). ITS also operates research computing infrastructure and hosts many of the University’s largest servers.

For further information visit our website www.its.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

DUTY STATEMENT

Primary Purpose of Position

The primary function of the position is to provide a high level of development and support for computing and network installations in ITS, client departments and organisations. This position provides technical leadership with expertise in the areas of analysis and development. The position will frequently be a major link between ITS and the client. Good communication is essential in order to ensure customer satisfaction and provide suitable explanations of highly technical matters to clients; and in order to provide training and direction to more junior staff.
Duties

Duties and responsibilities include, but are not limited to:

- Adopt and promote sound cyber security practices in compliance with UQ’s Cyber Security Policy and according to cyber security procedures and standards developed by the University or Division
- Design, implementation, installation and maintenance of information technology systems and its infrastructure.
- Undertake design and development of significant information technology projects with regard to the professional qualifications and experience of the position.
- Consult on the technical aspects of information technology to Information Technology Services clients.
- Assist the supervisor and unit manager in matters of budget preparation, management of the unit and strategic and long term planning.
- Consult to clients and represent Information Technology Services on matters not directly related to technical issues, such as, staff selection and other University committees.
- Investigate, evaluate and report on new equipment, systems, processes and standards.
- Ensure client satisfaction through the provision of efficient work practices and fostering positive client relationships.
- Assist team members in developing their skill set through mentoring.
- Undertake administrative tasks including (but not limited to) preparation of business cases, preparation of plans (in support of technical tasks), submission of change and overtime requests, management of work requests and completion of timesheets.
- An employee may be required to carry out other duties within the scope of the classification and within the limits of their skill, competence and training.

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 Software Development Team Lead, and will be required to direct other professional or technical staff on work relating to specific tasks or projects.
SELECTION CRITERIA

Essential

- Qualifications and training equivalent to an undergraduate degree in IT or related field and significant relevant experience; or an equivalent combination of relevant experience and/or education/training.
- Skills and experience in analysis, design, development, systems management and maintenance of multi-user systems or applications.
- Experience and knowledge in the following areas:
  - Programming in Java with Spring framework
  - Programming in Python, Perl
  - Database development (relational – PostgreSQL, Oracle)
  - Maven
  - Software development methodologies and best practices
  - Knowledge of compiling software

Desirable

- Experience in Cloud Computing (preferably AWS)
- Knowledge of Linux
- Knowledge of authentication and authorisation protocols (e.g. LDAP, Single Sign-On through SAML)
- Experience with Apache Tomcat
- Experience in creating LTI applications
- Knowledge of tools such as Jira, Confluence and GitHub.
- Experience with Blackboard

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 recruitment@uq.edu.au