



THE UNIVERSITY  
OF QUEENSLAND  
AUSTRALIA

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## POSITION DESCRIPTION

<b>Position Title:</b>	Senior DevOps Engineer
<b>Organisation Unit:</b>	Information Technology Services
<b>Position Number:</b>	TBA
<b>Type of Employment:</b>	12 months Fixed Term, full-time
<b>Classification:</b>	Hew Level 7 + 15% cash (industry loading)

## 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 (45), the US News Best Global Universities Rankings (52), QS World University Rankings (51), 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 secured a greater share of Australian Research Council grants in 2016 (\$24.5 million) than any other university nationally.

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 230,000-plus alumni. The University has about 7,000 academic and professional staff and a \$1.7 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://uniquet.com.au/our-track-record>).

UQ has a rapidly growing record of attracting philanthropic support for its activities and will have further success in this area as an important strategic aim 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, in line with our values of Service, Team, Accountability and Results. It comprises three major sections located across the University's campuses: Academic Services, Enterprise Support and University Networks. Also located within ITS is the internationally recognised information security group, AusCERT, which provides services throughout Australia and New Zealand. ITS manages core networks not only for the whole of The University of Queensland but also, on behalf of the Queensland Regional Network Organisation (QRNO), works with Queensland universities to manage access to the national university network (AARNet). ITS also operates Supercomputers and many of the University's largest servers.

AusCERT is a leading Cyber Emergency Response Team for Australia. As a not-for-profit information security group based at The University of Queensland, AusCERT helps members prevent, detect, respond to and mitigate threats. Formed in 1993, AusCERT is one of the oldest CERTs in the world. AusCERT monitors and evaluates global cyber network threats and vulnerabilities, and remains on-call for members after hours. AusCERT publishes the Security Bulletin Service, threat intelligence and other relevant resources for information security and IT professionals.

For further information visit our website **[www.its.uq.edu.au](http://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

This position is primarily responsible for developing and maintaining core system software applications within AusCERT to support and enhance its current and future IT capabilities. We are seeking someone who is interested in computer security and has demonstrable competence in software application development. System administrator tasks may also be required as backup and experience in this is desirable although not essential. Providing operational direction for a small team of one or two DevOps Engineers is also required.

## Duties

Duties and responsibilities include, but are not limited to:

- Provide overall direction, coordinate development operations and govern the design of information technology systems within AusCERT.
- Assist team members in developing their skill set through mentoring.
- Software programming for specialized development projects involved in providing support for AusCERT's core operations and services.
- Software debugging and troubleshooting tasks to provide support maintenance of AusCERT's information technology systems and infrastructure.
- Website development and maintenance.
- Appraise and assist in the development of new technologies as required and in accordance with the professional qualifications and experience of the position.
- Programming, testing and maintaining software programs according to specifications.
- Undertake administrative tasks including (but not limited to) preparation of business cases, preparation of plans (in support of technical tasks), creation, maintenance and improvement of relevant documentation, submission of change and overtime requests, management of work requests and completion of timesheets. Supply information and advice for the production of operational, budgeting and planning reports as required.
- 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:

- 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

Some positions may require the incumbent to be available on-call outside of working hours, subject to payment of the prescribed allowance and overtime penalties if necessary. While staff will have a campus nominated as their principal campus, they may be required to work

at any University Campus subject to the Travel and Transfer Policy (<http://ppl.app.uq.edu.au/content/5.43.09-transfer-and-travel-between-university-locations>).

## **Organisational Relationships**

The position reports to the Operations Manager, AusCERT, and works closely with AusCERT's team of Information Security Analysts which itself is led by the Coordination Centre Team Leader. The position will be required to direct other professional or technical staff (one or two other DevOps Engineers) on work relating to specific tasks or projects.

## **SELECTION CRITERIA**

### Essential

- Bachelor Degree with significant computing component (or equivalent) and extensive relevant experience; or an equivalent combination of relevant experience and/or education/training.
- Skills and extensive relevant experience in the entire SECURE software development life cycle model (requirement gathering and analysis, design, implementation/coding, testing, deployment and maintenance).
- Sufficient knowledge of, and experience in Linux operating systems for effective development on this platform.
- Demonstrated skills, experience and knowledge in the following areas:
  - Python or another object-oriented programming language
  - Web technologies (HTML, Javascript, CSS)
  - Version control, especially Git
  - Deployment and continuous integration
  - Maintenance of legacy systems
  - Secure coding, especially in a web context
  - Coding standards and use of static analysis tools
- Demonstrable experience in dealing effectively with clients to achieve positive outcomes.
- Experience in team leadership and/or project management
- Effective oral and written communication skills, particularly in documenting processes
- Effective problem solving and analytical skills
- Demonstrable focus on information security.
- Demonstrable organised and methodical approach to tasks.
- Must be self-motivated and able to work to objectives with limited guidance either alone or as a member of a small team

### Desirable

- Industry training/certification in one or more of the following areas: computer or information security, systems administration, programming and/or networking.
- Experience with:
  - Database design and/or maintenance, especially MySQL or PostgreSQL

- Linux system administration
- Ansible or another configuration management tool
- Shell scripting
- Java
- Perl
- PHP

Australian Citizen or Permanent Residence required. The successful applicant will be required to submit to background checks.

**The University of Queensland values diversity and social inclusion.**

**Employment opportunities are not limited by race, ethnicity, religion, disability, age, sexuality, gender or other protected attributes. Applications are encouraged from Aboriginal and Torres Strait Islander peoples. For further information please contact our Indigenous Employment Coordinator at: [atsi\\_recruitment@uq.edu.au](mailto:atsi_recruitment@uq.edu.au)**