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 (65). 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://uniqquest.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, 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 internet security 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 security group based at The University of Queensland, AusCERT helps members prevent, detect, respond to and mitigate cyber attacks. Formed in 1993, AusCERT is one of the oldest CERTs in the world and was the first CERT in Australia to operate as the national CERT, which it did until 2010. AusCERT monitors and evaluates global cyber 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 and www.auscert.org.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 system administration and operational security analyst support within the Australian Cyber Emergency Response Team (AusCERT). While supporting and enhancing AusCERT’s specialist, infosec related IT capabilities, the role will also govern the basic system administration functions which are performed by existing UQ ITS teams, such as the UNIX, Microsoft, database teams etc. We are seeking an individual with interest in computer security who has demonstrable competence in systems administration.

A role of “backup sys admin” is shared on a roster basis amongst the various security analyst team staff who have the appropriate skills, to ensure the Senior Security Systems Administrator always has access to at least one team member tasked with systems administration. This role will work on at least one major and several minor information security projects, such as building bespoke security-related solutions based on open source products.

Duties

Duties and responsibilities include, but are not limited to:

- System administration, including responsibility for securing, developing and managing of information technology systems.
- Appraise and assist in the development of new technologies as required and in accordance with the professional qualifications and experience of the position. This may include consulting on the technical aspects of information technology for AusCERT members, in combination with a Senior Information Security Analyst.
- Maintain a current knowledge of networking, computer and security standards, state-of-the-art developments and products. Maintain links with authorities, vendors, and relevant personnel within international peer groups, the Internet and the global university and research community.
- Contribute to the activities of other groups within AusCERT as directed, under the supervision of the relevant manager or team leader.
- A portion up to approximately 20% of the Senior Security Systems Administrator’s duties can be assigned to incident response and other related provision of services to AusCERT’s members. This is intended to allow the Senior Security Systems Administrator to participate in some duties of the Senior Information Security Analyst team, if interested.
- 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 AusCERT Team Leader, Coordination Centre, and may be
required to direct other professional or technical staff on work relating to specific tasks or
projects. The position will work as part of a team that consists of a Senior DevOps Engineer,
one or more DevOps Engineers and a pool of Senior Information Security Analysts and may
take direction from these positions as deemed necessary by the Team Leader, Coordination
Centre and AusCERT Operations Manager.

SELECTION CRITERIA

Essential

- A demonstrable interest in information security and the infosec community is
  expected.
- At least two years’ experience in the IT industry relevant to system administration in
  the areas defined further below. Some variation may be considered for applicants
  with a strong match to the other selection criteria.
- Demonstrated ability and willingness to solve problems and find solutions to technical
  problems.
- Detailed knowledge and experience in the following areas:
  - Linux operating systems (preferably RHEL and/or Debian).
  - Databases including design and development in MySQL or a similar product.
  - Open Source products commonly used in CERT teams, such as RT (Request
    Tracker), ELK Stack and malware reverse engineering tools/platforms.
  - Email systems including routing and troubleshooting.
- The architecture and services of the TCP/IP protocol suite. Knowledge of:
  - Shell scripting or equivalent system administration toolset.
  - A standard or system of documentation and control such as ITIL.
  - Virtualisation and container technologies.
  - Orchestration tools such as Ansible or similar technologies.
- Strong communication and interpersonal skills, with a demonstrable ability to work effectively with others to achieve positive outcomes as well as working alone with limited guidance for some tasks.
- Demonstrable level of integrity and honesty commensurate with a position of trust.
- Bachelor Degree with significant computing component (or equivalent), good results and subsequent relevant experience; OR
  - An equivalent combination of experience, education and training.

**Desirable**

- Experience in one or more of the following:
  - Computer/ network forensics.
  - IT security incident resolution.
  - A CSIRT team, particularly a coordination centre area.
  - Consulting or customer service experience in information technology, preferably in information security.
  - Windows operating systems (including Active Directory and administration).
- Knowledge and/or experience in one or more of the following areas:
  - Networking/firewalls.
  - Programming and/or the ability to read/troubleshoot shell script, Python, object oriented Perl GTK, Java or PHP.

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.

Accessibility requirements and/or adjustments can be directed to the contact person listed in the job advertisement.