POSITION DESCRIPTION

Position Title: Database and Data Integration Developer
Organisation Unit: Queensland Brain Institute
Position Number: NEW
Type of Employment: Fixed Term for 12 months
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 $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.

Organisational Environment

The Queensland Brain Institute (QBI) is situated on the St Lucia campus of The University of Queensland. Established as a neuroscience research institute in 2003, its dedicated team of over 400 research staff, including 41 laboratory heads or group leaders, work to understand the development, organisation and function of the healthy and the diseased brain. Their findings are then applied to the development of new therapeutic approaches to prevent and/or restore loss of function in diseases of the nervous system, such as Alzheimer’s and other dementias, stroke, schizophrenia, motor neuron disease, anxiety and depression.

QBI’s success is evidenced through the number of peer-reviewed high quality publications that are produced each year, and their success in competitive grant funding schemes, always well-above the national averages.

Over the past decade QBI has played a key role in contributing to UQ attaining the highest possible score of 5 for neuroscience, in both the 2010, 2012, and 2015 Excellence in Research for Australia (ERA) reviews, one of only two universities in Australia to achieve this.

Our people are our greatest asset. We offer collaborative, inclusive work and study places, which are enriched by the significant diversity of our staff, students and community. We genuinely believe that creativity and innovation flourishing in an environment where people feel supported, valued and empowered. Mutual respect, inclusivity and accountability are at the cornerstone of UQ’s culture.

Information about the Institute may be accessed at www.qbi.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 Database and Data Integration Developer will develop and administrate the corporate database systems (MySQL/PHP) used to support Operations and Researchers at QBI. They will provide high-level specialist knowledge of the software systems and development methods used, and work with the Service Desk Team Leader in designing new functionality and moving to modern frameworks and development practises. Additionally they will assist with any general data integration requirements with other corporate systems used at UQ and in other Research Institutes within UQ in this role as a data integration expert.
Duties

Duties and responsibilities include, but are not limited to:

**Design, implementation, and maintenance of the QBI Database and web front end**

- Building of design requirements in consultation with stake-holders.
- Development of features, performance enhancements, and bug fixes.
- Management of roles and permissions.
- Security monitoring and remediation.

**Creation and oversight of data integration initiatives**

- Liaising with Data warehouse administration and stake-holders to request access.
- Monitoring of data synchronisation jobs.
- Development of methods for integrating data from different systems.
- Lead projects for data clean up and import/exporting of bulk data.

**Additional Duties**

- Provide leadership and technical advice on aspects of Database and Data Integration topics.
- Actively participate in team initiatives and projects and cooperate with team members in a manner that reflects a commitment to team goals and objectives, effective communication, information sharing and problem solving practices.
- Mentor other team members in the provision of a quality Research focused IT environment.
- Coordinate and assist with deployment, support, and training.
- Convey effectively on task progress, evaluations, suggestions, schedules, and in regards to technical and process issues.
- Manage and ensure continuity with authentication systems.
- Use test driven development and acceptance tests to ensure feature quality.
- Maintain code version control using Git.
- Manage an issue register and/or wiki to detail code changes.

**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 Service Desk Team Leader and may be required to direct other professional or technical staff on work relating to specific tasks or projects.

SELECTION CRITERIA

Essential

- Bachelor Degree in Computer Science, Information Technology or Software engineering, with at least 4 years’ subsequent relevant experience, or an equivalent combination of extensive relevant experience and education/training.
- A strong knowledge of the PHP programming language.
- Excellent Relational database skills using MySQL and associated declarative query language.
- A great understanding of Web technologies including JavaScript, JQuery, AJAX, HTML, and CSS.
- Familiarity with Python as a general purpose scripting language.
- Experience in the integration of multiple data sources and databases.
- A high comfort level with Git for code version control.
- A proven track-record in creating and maintaining of clear and concise project and code documentation.
- Able to convey effectively on task progress, evaluations, suggestions, schedules, and in regards to technical and process issues.

Desirable

- An interest in Linux in general and open source development.
- Experience with Symfony, Django, Zend, Codelgniter, Laravel, Odoo, or other similar frameworks.
- Experience with Drupal, Plone, or any other CMS.
- Experience with Javascript frameworks such as jQuery, Angular, or Bootstrap.
- Experience with Configuration Management tools such as Chef, Puppet, Salt, or Ansible.
- Familiarity with Flask, SQLAlchemy, and various other supporting libraries.
- Familiarity with Elasticsearch and associated other data related tools.
- Experience configuring SSOs and integration with third-party services.
- Experience working with Jenkins, Bamboo, or other CI systems.
- An understanding of responsive design.

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 hr.qbi@uq.edu.au