



## POSITION DESCRIPTION

<b>Position Title:</b>	Graduate Web Applications Developer (eLIPSE)
<b>Organisation Unit:</b>	School of Mechanical & Mining Engineering
<b>Position Number:</b>	3032551
<b>Type of Employment:</b>	Full-time, Fixed term for 1 year.
<b>Classification:</b>	HEW Level 5

## 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 well within the top 100 universities worldwide, measured through a number of major independent university rankings: the Academic Ranking of World Universities, Times Higher Education World University Rankings, US News Best Global Universities Rankings, QS World University Rankings and Performance Ranking of Scientific Papers for World Universities, and is indeed in the top 50 in some of these rankings. In 2013, UQ attracted more Australian Research Council funding than any other Australian university or research body.

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, and a founding member of Universitas 21, an international consortium of leading research-intensive universities. UQ is also the largest university in Queensland.

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 215,000-plus alumni. The University has more than 7,000 academic and professional staff and a \$1.6 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.

## **Organisational Environment**

The Faculty of Engineering, Architecture and Information Technology (EAIT) has an excellent international reputation for innovative engineering education approaches. It has a distinguished record of achievement in engineering pedagogy including the introduction of a project-centred curriculum chosen in a Royal Academy of Engineering (RAE) and Massachusetts Institute of Technology (MIT) study (March 2012) as one of six global exemplars in leading engineering education.

Building on a history of cooperation between the Faculty of Engineering, Architecture and Information Technology (EAIT) and the Faculty of Science, academic staff who have an interest in reimagining STEM learning and enabling innovation collaborations have formed the Centre for eLearning Innovations and Partnerships in Science and Engineering (eLIPSE). The Centre acts as an incubator for technologies supporting learning. Through close cooperation with the University's Information Technology Services (ITS), the Centre aims to develop prototypes suitable for deployment across the University.

The eLIPSE online applications development team is based in the School of Mechanical and Mining Engineering, but works collaboratively with academic project leaders across the Faculty of EAIT and the Faculty of Science.

Information about eLIPSE may be accessed on the Centre's web site at <http://www.elipse.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**

Participate in and contribute to a high-performing, multidisciplinary, agile team tasked with the design, development, integration and evaluation of online learning applications that enhance the student learning experience.

### **Duties**

Duties and responsibilities include, but are not limited to:

#### **Software Development**

- Assist with the design, development, implementation and evaluation of specific platforms and tools that support student learning.
- Efficiently manage resources associated with and act as knowledge steward for the Centre's project and learning technologies.
- Carry out user acceptance testing on learning technologies/tools to be used by students and collect data on student learning activities.

- Design, develop and run custom reports (internal and external) from complex databases and associated eLearning systems.
- Provide assistance and specialist advice to academic staff on the implementation and use of educational technology and escalate more difficult issues to senior members of the team when necessary.
- Assist with the creation of training and support resources.

## **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

## **Organisational Relationships**

The position reports to the Faculty of EAIT Educational Designer (eLearning).

The Graduate Web Applications Developer works within the development team and collaborates closely with various stakeholders in the University.

## **SELECTION CRITERIA**

### **Essential**

- Completion of an undergraduate degree in computer science, information technology or software engineering OR an equivalent combination of relevant experience and/or education/training.
- Demonstrated web application development experience using industry standard tools, databases and languages (e.g. HTML5, CSS, JavaScript, PHP and MySQL).
- Knowledge of current software and web development standards, technologies, and practices.
- Experience in contributing to a team working in an agile environment to successfully achieve project outcomes that meet hard deadlines.
- Demonstrated problem solving and analytical abilities with attention to detail.
- Highly developed written and verbal communication skills, including the ability to communicate effectively with stakeholders at varying levels in the organisation.

Desirable

- Experience with full range of automated software testing including development, functional and user acceptance testing.
- Knowledge of human interaction principles and skills in interface design.
- Sound knowledge of technologies such as NodeJS, web frameworks, MVC, NoSQL database, SQL databases, dynamic languages, static languages or any other technologies.
- Experience supporting teaching and learning applications such as Learning Management Systems (e.g., Blackboard Learn), plagiarism detection software or assessment tools.

**The University of Queensland is committed to equity, diversity and inclusion.**