

Position Vacant - Learning Designer

Area: School of Mathematics and Physics, The University of Queensland
Salary: \$72,045 p.a.
Work Type: Full Time/Part Time – Fixed Term
Location: St Lucia, Brisbane

The School of Mathematics and Physics

The School of Mathematics and Physics is a dynamic School within the Faculty of Science at The University of Queensland. We are committed to excellence in learning, discovery and engagement. The School's disciplines of mathematics, statistics and physics are internationally recognised and members of its academic staff are leaders in their respective fields. The School is also home to four ARC Centres of Excellence and numerous other research groups.

Presently the School has approximately 100 academic staff. Undergraduate programs offered include Bachelor of Science to honours level as well as double degrees, with postgraduate coursework and research degrees also offered. Some 120 students are presently enrolled in the School's research higher degree program.

Information about the Faculty and the School may be accessed on the Faculty's web site at <https://www.smp.uq.edu.au/>

The role

The successful appointee will work on a University of Queensland Technology-Enhanced Learning project to develop dynamic, interactive simulations to enhance student learning. The project team aims to transform student learning experiences in undergraduate physics and mathematics courses using open source online tools to enhance preparation for in-class active learning. The role will involve supporting project staff by developing relevant on-line simulations as well as creating and testing associated teaching material.

The person

Applicants should possess qualifications in a relevant discipline such as mathematics, physics, engineering or similar preferably with experience in tutoring/teaching at university/school level. You should be comfortable with web-based technologies including programming experience. A background in Javascript/HTML5/CSS would be advantageous as would experience in the scholarship of teaching and learning.

Remuneration

This is a full-time or part-time, fixed term appointment for one year at HEW Level 6. The remuneration package will be \$72,045 p.a., plus employer superannuation contributions of up to 17% (total package will be \$84,293 p.a.).

Enquiries

To discuss this role please contact A/Prof Tim McIntyre on +61 7 3365 3423 or t.mcintyre@uq.edu.au.

Applications should be sent to
A/Prof Tim McIntyre
School of Mathematics and Physics
The University of Queensland
Brisbane 4072

or e-mailed to

A/Prof Tim McIntyre t.mcintyre@uq.edu.au

Applications close Monday 14 December, 5pm

DUTY STATEMENT

Primary Purpose of Position

The learning designer will develop advanced web-based simulations supporting a number of courses across mathematics and physics. This will include writing relevant code, testing the simulation and making updates based on feedback from staff and students. As well, the position will involve developing relevant teaching material including a description of each simulation, activities to perform using each simulation and assessment items.

Duties

Duties and responsibilities include, but are not limited to

Simulation development

- Develop computer code in an agreed computer language to simulate mathematics and/or physics principles for use by students
- Adapt or update existing computer-based simulations in consultation with academic staff
- Test existing computer-based simulations to evaluate their effectiveness for use as part of the project
- In consultation with academic staff, develop appropriate teaching material to support on-line computer simulations

Organisational Relationships

The position will report to the project team leader, A/Prof Tim McIntyre.

SELECTION CRITERIA

Essential

- A university degree in Mathematics, Physics, Engineering or similar
- High level computer competency including experience with web-based technologies including programming
- A proven ability to work independently and meet timelines
- Excellent interpersonal skills (including written and verbal communication)

Desirable

- Experience with programming in Javascript/HTML5/CSS
- Tutoring/teaching experience at school or university level
- Familiarity with scholarship of teaching and learning

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