## POSITION DESCRIPTION

**Position Title:** Lecturer in Tectonics  
**Organisation Unit:** School of Earth and Environmental Sciences  
**Position Number:** NEW  
**Type of Employment:** Continuing  
**Classification:** Academic Level B

### 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://uniquest.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 School of Earth and Environmental Sciences*

The School of Earth and Environmental Sciences is a thriving teaching and research group that includes 104 teaching and research staff and 23 administrative and technical staff. In the Earth Sciences, the School offers undergraduate majors in Geological and Geographical Sciences, Honours in Geology, Geographical Sciences and Exploration Geophysics, and a comprehensive postgraduate program in all areas of Earth Sciences. The School has research strengths in mineral and energy resources, isotope geochemistry and geochronology, structural geology and tectonics, geomicrobiology, igneous petrology, palaeontology, geodynamics, modelling and computational earth sciences, exploration geophysics, hydrogeology, and environmental geochemistry, which are directly linked to the university’s top research strengths in Mining and Minerals Processing and Ecology and Environmental Science. The School has an active and expanding internationalisation program, with collaborations with some of the top Asian, European, as well as North and South American institutions.

The School hosts world-class analytical infrastructure, including state-of-the-art GIS computer laboratories, sample preparation facilities and a complex analytical infrastructure that includes radiogenic and stable isotopes, major and trace element geochemistry, noble gas geochemistry and geochronology, coal petrology and organic geochemistry, geomicrobiology and fluid inclusion facilities. (see https://sees.uq.edu.au/research/analytical-facilities for details).

Through the Integrated Paleoenvironmental Research Group (IPRG) the School of Earth Sciences has a long-term program in palaeontology and stratigraphy with major growth in cross disciplinary areas such as ancient and modern reefs, Quaternary vertebrate palaeobiology, geomicrobiology, palynology and coal geology/stratigraphy. IPRG also interacts throughout the university with a broader ‘Palaeo Research Group’ that represents dozens of paleo-researchers spread across four schools in two faculties. Additionally, the School has strong ties to the Queensland Museum, which houses extensive palaeontological collections from the state.

A recently built geomicrobiology laboratory provides culturing facilities for aerobic and anaerobic microorganisms, including a coy anaerobic chamber, a photosynthetic growth chamber, fluorescence microscopy, and sample preparation for SEM and TEM analyses of bacteria-mineral interactions. In addition, the School maintains close links with the Centre for Microscopy and Microanalysis, a Major National Research Facility that provides access to electron microscopes (SEMs and TEMs), electron microprobes, X-ray diffractometers, nano-SIMS, surface analysis capabilities, and a host of other modern analytical instrumentation.

Further information and details on the research interests of academic staff in the School of Earth and Environmental Sciences can be found on the web at http://www.sees.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
The University of Queensland Enterprise Agreement outlines the position classification standards for Levels A to E.

**DUTY STATEMENT**

**Primary Purpose of Position**

To engage, as a lecturer, in undergraduate and postgraduate teaching, postgraduate supervision, and further development of the School’s Earth Sciences program, as well as performing research, administrative and other activities associated with the School. The position is part of a larger initiative to significantly strengthen research and training in Earth Sciences, especially in fields related to geodynamics and tectonics.

**Duties**

Duties and responsibilities include, but are not limited to:

**Research**
- Develop an externally-funded program of research in the broad area of *Tectonics* that may include but is not limited to a combination of experience in disciplines such as geodynamics, tectonics including understanding of active and ancient plate margins, marine geology, stratigraphy, tectonic reconstruction, and computer modelling
- Work with colleagues and postgraduates in the development of joint research projects with industry and academia.

**Teaching and Learning**
- Teach undergraduate subjects in the Earth Sciences program and other service teaching programs as required
- Initiate and develop course material
- Coordinate courses
- Participate in aspects of field teaching
- Teach and supervise at honours and postgraduate level
- Provide leadership in developing programs in geological sciences
- Where appropriate, teach subjects in flexible delivery mode
- Consult with students
- Provide support for other positions during absences.

**Service and Engagement**
- Perform a range of administrative functions in the School
- Foster the School’s relations with industry, government departments, professional bodies and the wider community
- Contribute to the processes that enable the academic team to manage the work of the School, including participate in School decision-making and serve on School committees
- Foster the School’s relations with industry, government departments, professional bodies and the wider community
- Any other duties as reasonably directed by your supervisor.
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 Deputy Head of School.

SELECTION CRITERIA

Essential

- PhD in an area relating to geodynamics
- Highly motivated to develop, lead and successfully undertake a research program that addresses globally significant issues in areas related to tectonics and geodynamics
- Strong developing track-record of lead author publications in high-ranking international journals
- Evidence of a significant contribution to research and enthusiasm to develop as a leading researcher
- Excellent ability to communicate in both written and spoken English
- Capacity to write successful research proposals
- Ability to work both collaboratively with colleagues and independently.

Desirable

- Field experience in a diverse range of world-class tectonic settings
- Knowledge of GIS and remote sensing software packages
- Demonstrated teaching skills in undergraduate field mapping and service courses for non-geoscience majors
- Experience in alternative modes of teaching including developing innovative online teaching practice
- An ability and willingness to engage with a mix of domestic and international students,
- Track record of successful external grant applications and industry funded projects
- Experience in liaising and collaborating with external agencies to develop co-operative research initiatives
- Experience in supervising student research.
Seminar

Applicants invited for interview may be expected to present a seminar in conjunction with the selection interview process.

Qualification Verification

An appointment to this position is subject to the verification of the highest academic qualification from the conferring institution.

The University of Queensland values diversity and inclusion.

Applications are particularly encouraged from Aboriginal and Torres Strait Islander peoples. For further information please contact our Australian Indigenous Employment Coordinator at: atsi_recruitment@uq.edu.au

Applications are also encouraged from women.

This role is a full-time position; however flexible working arrangements may be negotiated.