POSITION DESCRIPTION

Position Title: Research Fellow
Organisation Unit: Julius Kruttschnitt Mineral Research Centre (JKMRC)
Position Number: 1241122
Type of Employment: Full Time, fixed term appointment for 12 months
Classification: Research 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

One of UQ’s eight research institutes, the Sustainable Minerals Institute (SMI) consists of some 400 staff and postgraduate students covering the areas of mining and geology, mineral processing, environment and rehabilitation, social responsibility, safety and risk, water and unconventional gas. SMI is industry-focused and consequently works with many leading global resources companies and many small-medium enterprises and suppliers. SMI interacts strongly with governments and community. A priority for SMI is the development of talent and providing an environment for successful and rewarding careers.

SMI was founded in 2001 and since its inception has established a reputation as a unique institution for integrated sustainable development research in the resource sector. SMI is a truly global institute with staff and students from around the world. SMI’s people are also diverse in their discipline backgrounds, which range across disciplines including anthropology, geology, soil science, sociology, hydrology, environmental science, engineering and mine management.

SMI comprises six major research Centres which are organised into pairs:

SMI’s Production Centres are the:  
WH Bryan Mining and Geology Research Centre  
Julius Kruttschnitt Mineral Research Centre

SMI’s People Centres are the:  
Centre for Social Responsibility in Mining  
Minerals Industry Safety and Health Centre

SMI’s Environment Centres are the:  
Centre for Mined Land Rehabilitation  
Centre for Water in the Minerals Industry

The Julius Kruttschnitt Minerals Research Centre (JKMRC) is a world-renowned research and postgraduate education organisation with a mission to deliver world-class, customer-focussed education, research and technical services to the world minerals industry and allied sectors. The JKMRC has an international reputation for applied research in the areas of mineral processing and geometallurgy. It specialises in ore characterisation, mineral processing unit operations such as comminution and flotation, applied mineralogy, and the interface between mining and processing. Its emphasis on systems analysis by mathematical modelling and process simulations has led to major new methodologies in the design and optimisation of mineral processing operations. It works closely with the international minerals industry and with other research providers in Australia and overseas.

Further information on the JKMRC may be accessed via https://smi.uq.edu.au/jkmrc

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 participate in the management and coordination and delivery of high quality research for the JKMRC, primarily in the area of flotation. The role will involve being involved in industrially funded research as well as supervision of HDR students. Research to be undertaken is in the areas of flotation chemistry and reagents, flotation modelling and design.

Duties

Duties and responsibilities include, but are not limited to:

Research

- Demonstrated expert knowledge in the area of flotation, especially flotation chemistry and reagents
- Maintain and develop research expertise in the discipline of assigned research projects within the areas of flotation
- Undertake research individually or as part of a project team
- Take responsibility for part of a larger activity or sub project
- Liaise with project sponsors and conduct experimental work at field sites
- Prepare research reports and presentations for sponsors
- Assist in the development of new research initiatives following on from the projects
- Provide guidance and assistance to other staff and students
- Publish the results of research in international journals, other appropriate refereed publications and conferences

Teaching and Learning

- Be part of a team supervising postgraduate students

Financial Accountability

- When appropriate, assume financial responsibility for an activity or sub-project

Service and Engagement

- Foster the Centre’s relations with industry, government departments, professional bodies and the wider community.
- Perform a range of administrative functions in the Centre
- 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:

V5 October 2016
• 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 Principal Research Fellow.
SELECTION CRITERIA

Essential

- PhD, or a Masters degree and extensive research experience, in a research field relevant to mineral processing, mining or flotation
- Experience and / or publications that indicate a proven research ability
- Demonstrated precise experimental skills
- Ability to conceptualise, develop and critically review new research initiatives
- Well-developed presentation skills
- Well-developed verbal and written communication skills
- Demonstrated record of publication in relevant research fields
- Experience working in, or with, industry
- Ability to work harmoniously within a team, while maintaining a high individual profile in a research area
- Good inter-personal and communication skills
- Excellent organisational skills

Desirable

- Developed industry liaisons and professional contacts.
- Experience in liaising and collaborating with external agencies to develop co-operative research initiatives.

Please refer to the Criteria for Academic Performance policy PPL 5.70.17 when developing the duties and selection criteria for academic roles

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.