

PhD Scholarship in Blast Induced Fragment Conditioning

The mining resources within the Sustainable Minerals Institute have been consolidated under the WH Bryan Mining and Geology Research Centre (BRC). This new mining research initiative has effectively brought together significant intellectual and operational skills which offers integrated thinking across the mining value chain. The centre's expertise include Mass Mining, blasting fundamentals, geotechnical engineering, ore body modelling, geometallurgy, optimisation in mine design and planning as well as applied blast engineering. The BRC's strategy is to focus on providing solutions for complex, large scale mining operations. The BRC is one of six SMI research centres of The University of Queensland, it provides high quality research, technical innovation and technology transfer to the mining industry.

The role: We are seeking a PhD candidate to join the AMIRA P843A Geometallurgical Mapping and Mine Modelling (GeMIII) project and become part of a unique multi-disciplinary team with blasting, mine planning, geological, geotechnical, mineral processing and mathematical modelling backgrounds. Integrated blast modelling is one of the core themes of the GeMIII project and fundamental work is required in the areas of blast induced conditioning and its impact on downstream processes such as milling and leaching performance. One of the principal aims is to understand the relationships between texture, mineralogy and blast conditioning. This exciting industry funded project will allow the candidate to interact with national and international sponsors and may involve domestic and international travel for field work.

The person: Applicants should have a background in geological, geotechnical, blasting, mining or related disciplines. Experience with explosive rock breakage principles and practices are essential. Advanced modelling and simulation skills as well as quantitative analysis of research results are desirable. International applicants are welcome.

Remuneration: The stipend is valued from \$26,669 to \$41,669 (tax free) per year depending on skills and experience. The Scholarship will be awarded for 3 years.

Contact: Further information regarding the project can be obtained by contacting the project leader **Dr Italo Onederra** (07) 3346 4138 or i.onederra@uq.edu.au.

Applications: Please send a cover letter and curriculum vitae outlining your interest and suitability for this position to: **Lauren Stafford**, Manager WH Bryan Mining and Geology Research Centre (BRC), The University of Queensland St Lucia Brisbane Qld 4072 or l.stafford@uq.edu.au.

Applications close: 31st July 2009

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