Research Studentship in Iron Ore Sintering

A Ph.D. scholarship is available within the Centre for Ironmaking Materials Research, Newcastle Institute for Energy and Resources to work on the sintering of iron ore fines. This is an Australian Research Council (ARC) Linkage research project and the Partner Organisations involved are BHP Billiton and BlueScope Steel. The aim of the Ph.D. research is to understand the fundamentals of the coalescing process that occurs in the generated three-phase solid-liquid-gas mix in the flame front. With the increased volumes of low bulk density ores being mined in Australia, there is a need to understand how to enhance the coalescence process so that sinter product quality can be maintained/improved. The Ph.D. student will work closely with a post-doctoral student supported by the same ARC project. It is our expectation that on completing the Ph.D. the candidate will be suitably qualified to join either BHP Billiton or BlueScope Steel in a technology or technical marketing role.

We are seeking graduates with good academic background in Chemical/Mechanical engineering, Material Science or Metallurgy to work on this project. The position will be funded for 3 years. Students will receive a scholarship payment of $37,000 per annum, while additional top-up may be available for exceptional candidates. If the successful candidate is an international student, a matching 3 year full tuition fee scholarship and Overseas Student Health Cover will also be provided.

Graduates with Honours Class I are encouraged to apply for the position. Graduates with Honours Class II Division I may apply if they have a very good academic record for the later two years of their study. Applicants with a higher degree such as M.E./M.Phil in above areas may also apply. Both domestic and international students may apply for this position. To submit a formal application please provide following documentations.

1. A copy of your current CV and description of personal characteristics that you believe make you suitable for this project.
2. A statement to describe your career aspirations.
3. Summary of Academic records, with grades of all courses in final two years of study.
4. Name of two academic referees and their contact email address.

For detail information about the position please contact Prof. C. E. Loo, Email: Bob.Loo@newcastle.edu.au or Telephone: +612 40339142. If the application is sent by post then please use the following postal address to submit the application. The application closes on **30 November 2011**.

Prof. C.E. Loo, Centre for Ironmaking Materials Research, Newcastle Institute for Energy and Resources, The University of Newcastle, Callaghan, 2308, NSW, Australia.