

## Rio Tinto

### Manager Electrical Engineering (Contract position until end of 2013) - VAN0000Y

Primary Location BC-Vancouver

Schedule Full-time

Deadline date: 2/16/2012

Rio Tinto is a leading international mining group headquartered in the UK, combining Rio Tinto plc, a London and NYSE listed company, and Rio Tinto Limited, which is listed on the Australian Securities Exchange. Rio Tinto's business is finding, mining, and processing mineral resources. Major products are aluminum, copper, diamonds, energy (coal and uranium), gold, industrial minerals (borax, titanium dioxide, salt, talc) and iron ore. Activities span the world but are strongly represented in Australia and North America with significant businesses in South America, Asia, Europe and southern Africa. For more information, please visit [www.riotinto.com](http://www.riotinto.com)

#### **Context**

Oyu Tolgoi is a greenfields mining project located in the Gobi desert region of Mongolia. Mining reserves include a series of open pit mines and an 85,000 tonne per day underground block cave mine (Hugo North Lift 1) with a 20 year mine life, with potential for 3 further block cave operations to increase mine life beyond 60 years. Underground studies for Lift 1 have recently completed Pre Feasibility Study level, and now transition into Feasibility Study. Order of Magnitude studies for the further 3 caves require strategic work to ensure optimal mining exploitation and value. Construction has commenced on the first phase of the project which includes a 100ktpd open pit and mill as well as on early capital items although Feasibility Studies are not complete.

#### **Primary Purpose**

To manage the electrical design and progress feasibility level designs to detail engineering for all electrical infrastructure associated with the underground mine and mill expansion to 150ktpd and subsequently provide engineering support to the construction team. Produce issue for construction drawings, prepare and adjudicate construction tender documents. To provide input and direction to control estimates and project execution schedules for expansion infrastructure.

#### **Accountabilities**

- Interface and collaboration with a global team of multi disciplined professionals up to Manager level. Adhering to clear direction and team discipline through a detailed Project Execution Plan and Project Management structure. Management of stakeholder relationships in a global environment within a Joint Venture structure. Responsible for coordination with General Managers and Managers of departments outside of the studies department battery limits, to ensure that the electrical infrastructure is engineered to integrate with the first phase construction, and that battery limits are seamless
- Technical and operational leadership in meeting the deliverables (scope, schedule and cost) of a Multi Million Dollar Engineering program representing a \$1.5 Billion dollar preproduction expenditure over the next 4 years and \$4.9 Billion dollar expenditure over 20 years. Management of internal and external review processes to ensure solutions are robust. Drive benchmarking, collaboration and innovation both within and external to Rio Tinto projects and operations, to build on past learning's and ensure solutions are best practice
- Provide support and review to construction teams during and subsequent to the detail engineering phase to ensure as built match design
- Strategic review of new technologies to verify inclusion or exclusion from design to maximize capital and operational efficiency without introduction of unacceptable risk
- Responsible for the transfer of skills and knowledge from the studies / detail engineering team to site construction and operations. Drive the process for improving the technical training of Mongolian national professionals

#### **Education and Relevant Experience**

- College/University Education: Electrical Engineering Degree/Diploma
- Other Qualifications: Project Management Experience

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