

## Rio Tinto

### Supervisor, Reliability and Mechanical Engineering - YEL000K2

Primary Location: Yellowknife

Schedule Full-time

Diavik Diamond Mines Inc.

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)

Diavik Diamond Mines (DDMI) owns Rio Tinto's interest in and manages the unincorporated Diavik diamonds joint venture in the Northwest Territories of Canada. Mining takes place in the lake bed at Lac de Gras with water held back by a dike made of rock fill. With approximately 800 employees, Diavik is instrumental in making Canada the world's third largest diamond producer by value. Diavik has won awards for its sensitive management of environmental and community issues.

Reporting to the Superintendent Mechanical Engineering and Reliability, the Supervisor, Reliability and Mechanical Engineering will work on a 4 day on/ 3 day off rotation basis at the Lac de Gras mine site. The Supervisor - Reliability & Mechanical Engineering ensures that asset reliability analysis and improvement is an integral part of the way assets are managed at DDMI. Supports and implements Continuous Improvement in the Management of Asset in both Maintenance and Operations to maximize equipment performance. Leads and mentors Reliability and Maintenance personnel by utilizing, Reliability Centered Maintenance, Root Cause Failure Analysis and other tools to achieve mine reliability targets and optimum equipment life cycle performance. Responsible for leading an engineering group in the strategic development and coordination of all activities relating to the surface and underground engineering modifications at DDMI. They will provide engineering support to the various operational groups when required.

#### **The Supervisor, Reliability and Mechanical Engineering responsibilities include but are not limited to:**

- Ensure up-to-date technological improvements in predictive analysis are incorporated into the work.
- Maintain and contribute to mechanical activities around site.
- Work with consultants to integrate all aspects of engineering into the Annual Plan.
- Prepare reports and timelines, including annual reviews, capital expenditures, as required.
- Work with Environmental and Business Improvement departments to ensure DDMI meets or exceeds Rio Tinto's standards.
- Contract and review consulting work related to piping, pumping, heat transfer, and mechanical requirements.
- Develop management strategies to improve closure options.
- Ensure materials required for engineering projects are adequate for planned work.
- Assist with supervisory roles, as required.
- Supervise the sites drafts people and engineering co-op students, overseeing their work and ensuring they are trained and understand what is required from them.
- Collaborate with other teams to optimize and implement reliability centred maintenance across DDMI. Mentor Reliability Team members to optimize both their effectiveness and personal development.
- Lead improvements in site loss data capture and utilize site performance metrics (such as MTBF, Utilization, Availability, etc.) to identify the major causes of loss. Use this data to focus resources on improving performance.
- Champion, maintain and facilitate the use of reliability analysis tools and systems including 6 Sigma, RCM, Tap Root, PMO, DE & RCA.
- Monitor, analyze and provide detailed reports on operating practices, equipment performance, value delivery and reliability to identify improvement opportunities. (cost, reliability, capacity)
- Assess and question the effectiveness of current equipment strategies and update maintenance strategies where necessary.
- Review proposed new equipment for fitness of task and provide critical spares lists, defined maintenance strategies and ensure master data is entered into the CMMS system prior to equipment commissioning on site.
- Attend regular asset management meetings to provide reliability support and ensure identified reliability improvements are included in the schedule.

- Make sound judgments to ensure asset integrity is maintained at all times and that short term imperatives do not put the assets at risk or reduce long term asset utilization.
- Use Management of Change process to ensure asset drawings, manuals, strategies and procedures maintain their currency.
- Work closely with Planners, Team leaders, other Reliability engineers, Superintendents & supervisors - Maintenance and Operations.
- Provide a monthly Reliability report detailing reliability concerns and successes.
- Promote and display reliability success stories.

The successful candidate will be one whose #1 priority is safety in the work place.

**The incumbent will have:**

- Bachelor of Engineering
- Min 4 years Industrial Experience - Heavy industrial / processing environment.
- Computer literacy - Microsoft Office suite, Ellipse, SAP.
- Demonstrated experience in reliability engineering.
- Experience in diagnosis and resolution of technically advanced problems.
- Sound understanding of Root Cause Failure Analysis (RCA) and Reliability Centred Maintenance (RCM) principles.
- Ability to apply Six Sigma Principles to the resolution of technically advanced problems.
- Understanding and application of condition monitoring techniques.
- Excellent safety attitude and track record.
- Ability to work in a cross-functional team environment.
- Good verbal and written communication skills.
- Ability to plan and complete work as planned.
- Solid team member with good interpersonal skills.

We offer an attractive remuneration package including a range of Rio Tinto benefits, as well as the sought after opportunity to develop and expand upon your knowledge and experience with a world leader in the industry.

Northern residency and experience working in a cross-cultural environment, coupled with knowledge of the unique challenges and opportunities presented to those living in the North, are assets.

Please apply online at: <http://rs2.cvmanager.com/getjob.asp?region=qc&lang=e&id=55043&sid=62>