



**BOREALIS MINING COMPANY LLC**  
**PO BOX 2447**  
**HAWTHORNE, NEVADA, 89415**

**POSITION DETAILS**

<b>Name:</b>	
<b>Position Title:</b>	<b>Metallurgist</b>
<b>Location:</b>	<b>Borealis Mine, Hawthorne, Nevada</b>
<b>Reports to:</b>	<b>Mine Manager</b>

**Scope:**

The Metallurgist for the mining operations at the Borealis mine site will provide a key technical supporting role to the Heap Leach and ADR Plant operations. They will provide technical guidance to the ADR plant and assist with reconciliation of plant and leach pad inventory.

**Duties and Responsibilities:**

**Safety, Environmental, and Community**

- Ensure operating personnel comply with safety training requirements and follow procedures according to mine safety standards.
- Ensure lab training and processes in place for safe operation of the facility.

**Production**

- Lead, communicate and provide direction to ensure production targets are met at the ADR plant. Review day-to-day operating practices. Forecast and reconcile metal production.
- Produce stacking plans and irrigation cycle strategies for ore being placed on the heap leach pad in accordance with permitting restrictions and operational best practices for gold heap leaching.
- Conduct metallurgical testing including bottle roll testing and other testing, either on-site or with off-site support.

**Optimization and Cost Management**

- Optimize and troubleshoot processing operations to meet metal recoveries and process efficiency targets. Interface with external consultants and laboratories on projects to improve operations and assaying/sampling practices as required.
- Manage process operating costs and identify opportunities to manage reagent costs.

**Metal Budget and Inventory**

- Maximize metallurgical productivity while maintaining budget operating costs. Monitor operating consumables and maintenance spent to meet budgetary targets. Document reagents and material usage. Communicate with finance for orders and inventory as required.

**Supervision**

- Support development of SOPs for site activities in accordance with best safety and operating practices.

**Reporting**

- Provide production updates on weekly, monthly, and annual reports. Provide information on processing parameters and short and long term expected production trends.
- Other tasks as assigned.

**Skills and Qualifications:**

- Bachelor's Degree in Metallurgical or Chemical Engineering or equivalent preferred.
- 2+ years of practical operating experience, with specific gold/silver heap leaching experience.
- Strong knowledge and operating experience of Zadra or similar carbon stripping process.
- Ability to direct field work with a demonstrated focus on safety.
- Strong organizational and time management skills.
- Ability to learn, manage and maintain all necessary systems.
- Strong communication skills, both written and verbal.
- Ability to work with minimal supervision.
- Strong work ethic and professional demeanour.

**Physical Demands:**

To be eligible for this position, an individual must possess the following requirements to perform the essential job functions:

- Must be able to physically perform the basic life operational functions of climbing, stooping, kneeling, crouching, reaching, standing, walking, pushing, pulling, lifting, fingering, grasping, feeling, talking, hearing, and repetitive motion.
- Able to wear and demonstrate to employees the use of personal protective equipment including hardhat, steel toed footwear, safety glasses, ear plugs, gloves (rubber, leather & cloth), and/or any other equipment required to do the job assigned safely.
- Able to operate a telephone and mine phone/radio with sufficient voice and hearing to carry on a conversation for the purpose of communicating information to management.
- Ability to hear sufficiently to distinguish various pitches of warning alarms.
- Able to lift at a minimum 25 pounds periodically.
- Must possess a valid Driver's license and be able to operate a light vehicle.
- Ability driving to remote work areas and attend meetings where scheduled.