

MINE GEOLOGY SUPERINTENDENT

Job Purpose

The Mine Geology Superintendent is responsible for leading all Mine Geology and Grade Control activities to ensure the safe, efficient and accurate extraction of mineral resources. The role provides technical leadership to the Mine Geology team and is accountable for grade control, production geology, mine-to-mill reconciliation, geological data integrity, QAQC, and the delivery of timely geological information to support operational decision-making.

Key Accountabilities & Responsibilities

1. Leadership and Management

- Lead, mentor and develop the Mine Geology team.
 - Promote a culture of safety, accountability and continuous improvement.
 - Manage departmental resources to ensure operational requirements are met.
 - Conduct performance reviews and identify development opportunities.
 - Ensure succession planning within the Mine Geology team.
 - Manage contractor performance where applicable.
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2. Resource Model Support

- Support Mineral Resource updates.
 - Identify opportunities for Resource expansion during mining.
 - Provide recommendations to improve geological models.
 - Assist Corporate Geology with MROR updates.
 - Provide geological interpretation supporting resource estimation.
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3. Grade Control Management

- Lead all Grade Control activities across the mining operation.
 - Develop and continuously improve Grade Control strategies.
 - Ensure ore boundaries are accurately defined.
 - Optimise ore recovery while minimising ore loss and dilution.
 - Ensure Grade Control drilling programs meet operational requirements.
 - Review and approve dig lines and ore mark-ups.
 - Monitor blast movement and incorporate findings into mining decisions.
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4. Production Geology

- Provide geological support to daily mining operations.



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- Validate geological interpretations during mining.
 - Monitor orebody continuity and identify geological risks.
 - Support mine sequencing and production planning.
 - Assist with geometallurgical characterisation where required.
 - Ensure timely communication of geological issues affecting production.
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5. Mine-to-Mill Reconciliation

- Lead and continuously improve the Mine Reconciliation process, including:
 - Resource Model reconciliation.
 - Grade Control Model reconciliation.
 - Ore mark-up reconciliation.
 - Survey depletion reconciliation.
 - Truck movement reconciliation.
 - Plant feed reconciliation.
 - Gold reconciliation.
 - Investigate reconciliation variances and implement corrective actions.
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6. Geological Database and QAQC

- Ensure geological databases remain accurate and current.
 - Maintain sampling protocols and QAQC programs.
 - Monitor assay quality and laboratory performance.
 - Ensure all geological data complies with Company standards.
 - Maintain documentation supporting Mineral Resource updates.
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7. Undertake continuous improvement initiatives in:

- Grade Control Practices, Reconciliation accuracy, Geological modelling, Sampling Techniques, Digital data capture, Geological software utilization and Mine Productivity
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8. Budget Management:

- Develop annual Mine Geology budgets, Monitor expenditure, Manage Contractor cost, Optimize drilling expenditure and identify cost-saving initiatives without compromising quality.
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9. Provide Daily, Weekly, Monthly Operational, Reconciliation, QAQC and Geological risk Reports

Required Qualification & Experience

Academic Qualifications

- **Bachelor's degree** in Geological Science or equivalent.
- **Master's degree** in Geological Science or equivalent (desirable)

Professional Certifications (Highly Desirable)

- AIG / SAIMM / AusIMM / GhIG or equivalent membership
- Minerals Commission's Certificate in Geology

Experience Requirements

- **8+ years** experience in open pit mine geology
- Minimum **3 years** in a leadership role
- Demonstrated experience in Grade Control.
- Strong experience in Mine-to-Mill reconciliation.
- Experience supporting Mineral Resource estimation.
- Software experience in one or more of Surpac, Leapfrog, Datamine, Vulcan, Surpac, Micromine, Acquire and ArcGIS.
- Experience in managing drilling contractors.

Technical Competencies

- Multi-disciplinary knowledge of Mining and Mineral processing.
- Significant experience in mine geology including mine to mill reconciliation.
- knowledge of mineral system models and mine geology methodologies.
- Advanced understanding and application of Mine Geology Methods is required.
- Demonstrated commitment to continuous improvement.
- Knowledge of resource interpretation, geological modeling,
- Budget management
- Strong leadership and decision-making
- Strategic mindset with operational discipline

Business Behaviours

- Commercial awareness and Business acumen
- Team oriented
- Strong interpersonal skills with excellent verbal, written and listening skills
- Anticipates, plans and reacts quickly & flexibly to changing circumstances.
- Open, honest & reliable.
- Integrity, Attention to detail, time consciousness, Accountability, and teamwork ability
- Sound judgement.
- Commitment to operational excellence.