



Adamus Resources Limited

Geotechnical Engineer

Job Purpose

Geotechnical Engineer with extensive experience in open-pit mining to ensure the stability, safety, and efficiency of our mining operations. The role involves analyzing ground conditions, implementing slope monitoring systems, and applying geotechnical expertise to support mining activities.

Key Responsibilities

- Conduct geotechnical assessments and slope stability analysis for open-pit mining operations.
- Monitor and evaluate ground conditions using SSR-FX slope monitoring systems and geotechnical instrumentation.
- Perform geotechnical analysis using Rocscience tools (Dips, Swedge, Slide, Slide 3D).
- Implement ground control strategies and ensure compliance with safety standards.
- Conduct daily inspections ensuring timely validation and interpretation of geotechnical monitoring data (radar, prisms, VWPs), and recommend remedial actions to maintain safe mining conditions.
- Design, maintain, and upgrade the site's geotechnical monitoring systems and geotechnical database.
- Carry out stability analysis of excavations and analysis of designs through kinematics, empirical, and numerical techniques.
- Providing operational guidance on pit development and implementing practical controls to manage geotechnical hazards.
- Liaise with work groups to communicate hazards, schedule mitigating activities, and adapt plans and field work as conditions change.
- Contribute to design reviews, operational improvements, and QA/QC reconciliation to enhance pit wall performance and geotechnical outcomes.
- Uphold departmental standards by delivering quality outputs, engaging proactively, seeking feedback, and stopping unsafe work.
- Any other tasks that may be assigned by senior leadership.



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Required Qualification & Experience

- Bachelor's degree in Geological Engineering or related field with at least Five (5) years of geotechnical experience in an open-pit mining. A master's degree in Geotechnical Engineering or a related field would be an added advantage.
- In-depth knowledge of ground control using SSR-FX slope monitoring systems
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- Ability to use Rocscience tools (dips, Swedge Software, slide, and slide 3D) for geotechnical analysis.
- Valid Ghanaian Driver's license.

Technical Competencies

- Expert in soil/rock mechanics
- very good analytical, planning, and prioritizing skills combined with the ability to utilize the knowledge gained.
- Well-developed oral and written communication skills in English and an ability to relate to people of diverse cultures and levels.
- Strong analytical skills.
- Proficiency in geotechnical instrumentation, monitoring, data analysis, slope stability, and risk -mitigation practices, including the use of radar, prisms, VWP data, and QA/QC reconciliation.

Skills & Experience

- Problem-solving and analytical rationalization.
- Strong technical skills.
- Attention to detail.
- Highly organized, self-motivated, and detail-focused, with the ability to work independently or collaboratively while applying sound judgement and following procedural requirements.



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Business Behaviours

- Must show a high level of integrity.
- Be Solution-oriented.
- Maintain professionalism.
- Ability to plan strategically.
- Produce effective business results
- Compliance with the Law.

