

JOB PROFILE

A. Job Information	
Job Title:	GEOTECHNICAL ENGINEER
Job Grade:	
Location:	NAML – KONONGO
Department:	MNING
Job reports to:	MINING MANAGER

B. Job purpose:
<i>A brief statement outlining the overall purpose/reason for the existence of the job (one or two sentences).</i>
The purpose of the role is to support safe and efficient open-pit mining by providing timely geotechnical guidance to technical services, Production Engineering and Mining Operations. You will monitor ground conditions, assess geotechnical risks, and recommend practical solutions that maintain pit stability and operational continuity. Working closely with cross-disciplinary teams, you will contribute to design reviews, hazard management, and continuous operational improvement while adapting plans to changing field conditions. This is a hands-on, collaborative role suited to someone who brings strong technical capability, sound judgment, and a proactive approach to supporting daily mining activities. The role will ensure operational safety, stability, and productivity by assessing rock and soil mechanics, designing underground support systems, and monitoring slope stability.

C. Responsibilities/Key Objectives:	
<i>List five to eight major activities and contributions to the organisation for which this job is held accountable.</i>	
1	Ensure timely validation and interpretation of geotechnical data, through ongoing data collection as well as evaluation, maintaining and being up-to-date on the geotechnical database and model.
2	Design, maintain, and upgrade the site's geotechnical monitoring systems and develop the monitoring database
3	Carry out stability analysis of excavations and analysis of designs through kinematics, empirical, and numerical techniques.
4	Complete monthly and ad hoc reports on data gathering, evaluation, designs, and monitoring.
5	Coordinate the use of consultants for geotechnical design. Review and manage geotechnical contractors on-site.
6	Ensure that the mining staff achieves the best practice with respect to excavation control.
7	Update procedures and hazard plans to identify and develop work practices and methods that reduce the risk of injury, decrease costs, and improve productivity.

8	Providing operational guidance on pit development and implementing practical controls to manage geotechnical hazards.
9	Conduct daily inspections, interpreting monitoring data (radar, prisms, VWPs), and recommending remedial actions to maintain safe mining conditions.
10	Liaise with work groups to communicate hazards, schedule mitigating activities, and adapt plans and field work as conditions change.
11	Contribute to design reviews, operational improvements, and QA/QC reconciliation to enhance pit wall performance and geotechnical outcomes.
12	Uphold departmental standards by delivering quality outputs, engaging proactively, seeking feedback, and stopping unsafe work.
13	Any other tasks that may be assigned by senior leadership.

D. Inherent Requirements of the Job

The minimum qualifications, skills, knowledge, experience, and behavioral attributes are required to perform the job competently.

<p>Minimum qualification/s Experience (A basic summary of the previous level of experience required to start in the position)</p>	<ul style="list-style-type: none"> • A BSc. in Geological/Geotechnical Engineering or related field. A Master's degree in Geotechnical Engineering or a related field would be an added advantage. • Geotechnical experience in open-pit mining combined with an in-depth knowledge of ground control using SSR-FX slope monitoring systems • Should be able to use Rocscience tools (dips, Swedge Software, slide, and slide 3D) for geotechnical analysis • At least 5 years' experience in the geotechnical aspects of open pit mining.
<p>Technical competencies</p>	<ul style="list-style-type: none"> • 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.
<p>Skills and Experience</p>	<ul style="list-style-type: none"> • 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.

	<ul style="list-style-type: none"> •
Business Behaviors	<ul style="list-style-type: none"> • Must show a high level of integrity. • Be Solution-oriented. • Maintain professionalism. • Ability to plan strategically. • Must exhibit dedication and commitment to duty. • Compliance with the Law. • Extensive documentation.

E. Job description agreement

The Manager or his/her nominee reserves the right to make changes and alterations to this job description as he/she deems reasonable, after due consultation with the job holder.

We, the undersigned, agree that the completed Job Description gives an accurate outline of the job and represents the contents and requirements of the job.

Title	Name	Employee Number	Signature	Date