SIERRA RUTILE LIMITED

WE ARE HIRING



Geotechnician - Job Grade (C2) (Internal/External Advert) X3

Employment Type: Fixed-term Contract

Location: Area 5 (Sembehun)

Bachelor's degree in Geology, Earth Sciences or a closely related discipline.

At least 3 years' experience in Grade Control or a Geotechnician role and experience in the Mineral Sands industry is an added advantage.

Send your application and resume/C V to recruitment@sierra-rutile .com

Closing date: 16 November 2026.

WHO ARE WE

Sierra Rutile is a leading mineral sands company, operating world-class assets in Sierra Leone. Sierra Rutile is in the process of significantly expanding its core rutile production with associated increase of zircon and ilmenite by-products in Area 5 (Sembehun) South of Sierra Leone which is endowed with one of the heaviest deposits of natural rutile in the world. Sierra Rutile is the home for diverse, talented and innovative people that are highly motivated to ensure the attainment of the short- and long-term vision of the company. If you are an innovative individual here is an opportunity for career growth and fulfillment of dreams.

WHAT ARE WE LOOKING FOR

We are looking for a Geotechnician who will serve as a critical link between Geology and Production, working primarily in the mining pits to provide real-time geological intelligence that guides excavation decisions. By executing grade control sampling, marking ore boundaries, and monitoring dilution risks. This role ensures accurate ore/waste delineation and protects ore value. Working closely with operators, surveyors, and processing plant teams, the Geotechnician helps optimize ore recovery, maintain feed quality, and directly influence key operational metrics such as profitability and grade accuracy. Success requires technical competence, strong communication, situational awareness in a dynamic environment, and effective collaboration across multidisciplinary teams.

REPORTING AND LOCATION

The successful candidate will report to the Mine Geologist and will be based at Sembehun, Area 5, Moyamba District, Southern Province, Sierra Leone.

JOB SPECIFICATION

1. Real-Time Ore/Waste Delineation

- Serve as the primary geology representative on the pit floor, providing real-time geological data to guide excavation decisions.
- Work alongside excavator operators, and surveyors to mark out ore boundaries, waste contacts, and stockpile locations.
- Maintain a proactive presence in active mining areas, often working ahead of excavation to identify structural complexities and respond swiftly to changing geological conditions.
- Clearly communicate in-pit instructions to mining personnel using flags, and GPS systems.

2. Grade Control Sampling & Data Collection

- Execute high-frequency grade control sampling programs, including supervision of grade control drilling, chip sampling, and face mapping.
- Ensure all sampling activities adhere to strict protocols to guarantee data integrity and representativity.
- Collect, log, and dispatch samples to the laboratory in a timely manner, tracking turnaround times to support operational decision-making.

3. Dilution Management and Ore Recovery

- Closely monitor dilution risks, including unintentional mixing of waste with ore, and implement real-time corrective measures in coordination with mining supervisors.
- Adjust dig plans on the fly to protect ore value, ensuring that mining activities conform to geological boundaries.

- Conduct regular inspections of active pit areas to assess dilution, ore loss, and conformance to the grade control model.

4. Collaboration and Operational Support

- Act as a key liaison between geology, mining operations, survey, and metallurgy to ensure seamless ore routing to stockpiles or the processing plant.
- Coordinate with metallurgists and processing plant personnel to confirm that delivered material meets feed quality requirements, preventing plant disruptions and optimizing recovery.
- Participate in daily production meetings to communicate geological conditions, grade control outcomes, and potential risks affecting the mine plan

5. Data Management and Reporting

- Accurately record and maintain all geological data, including sample logs, pit mapping, and QA/QC documentation.
- Enter and validate data in the geology database and mine planning software (Datamine) to support model updates.
- Prepare daily grade control reports summarizing ore haulage, stockpile grades, dilution events, and geological observations.

6. Quality Assurance and Quality Control (QAQC)

- Implement and monitor QA/QC procedures, including the insertion of standards, blanks, and duplicates in sampling programs.
- Review laboratory performance and assay data for anomalies, escalating any quality concerns to the Mine Geologist.

6. Environment, Health and Safety

- Demonstrate an unwavering commitment to safety, adhering to all site HSE policies and procedures in a high-risk environment with heavy machinery activities.
- Conduct pre-start checks, risk assessments and actively participate in safety meetings and incident investigations.
- Report all hazards, near misses, and incidents promptly, contributing to a culture of continuous safety improvement.
- Direct and verify team adherence to critical safety protocols, including the consistent use of PPE, lockout tag-out procedures, and equipment-specific guidelines
- Actively contributes to safety improvement by identifying opportunities to enhance health, safety, and security programs and recommending them to the EHS department.

PERSON SPECIFICATION

1. Qualifications

- Bachelor’s degree in Geology, Earth Sciences, or a closely related discipline.

2. Experiences

- Minimum 5 years' experience in a mining environment.
- At least 3 years' experience in grade control role

HOW DO WE CHOOSE YOU

By clearly indicating the subject of your application in your email, please forward your application with Resume/CV to:

The People and Culture Department
Sierra Rutile Limited,
11 Bintumani Crescent, Aberdeen,
P.O. Box 59,
Freetown
SIERRA LEONE
Or e-mail: **recruitment@sierra-rutile.com**

Note:

Only shortlisted applicants will be contacted, and women are strongly encouraged to apply