

CONDITION MONITORING TECHNICIAN

Location: Nyanzaga Mine Site, Tanzania

Employment Type: Fixed Term of 24 Months.

Perseus Mining (Tanzania) Limited (SMLC) is seeking a **Condition Monitoring Technician**.

The Condition Monitoring Technician is responsible for improving the reliability, availability and performance of site assets by identifying developing equipment defects and potential failures through systematic condition monitoring and predictive maintenance techniques.

The role collects, analyses and interprets equipment condition data using techniques such as vibration analysis, infrared thermography, ultrasonic inspection, oil analysis and other applicable condition monitoring technologies to identify abnormal conditions, assess equipment health and provide timely maintenance recommendations.

The role works closely with Maintenance Planning, Mechanical and Electrical Maintenance Superintendents, Maintenance Supervisors and Technicians, Operations, Engineering, and OEM/service providers to ensure identified defects are assessed, prioritised, planned and addressed before they result in equipment failure, unplanned downtime or significant production losses.

A key responsibility is to maintain accurate condition monitoring records and equipment health information within the CMMS/reliability system, including inspection results, trends, defect notifications, analysis findings, recommendations and follow-up actions.

The role supports the development and optimisation of condition-based and predictive maintenance strategies, Root Cause Analysis (RCA), failure investigations and continuous improvement initiatives to reduce unplanned failures and optimise maintenance effectiveness, asset reliability, availability and life-cycle costs.

Key Responsibilities:

Management of Safety, Environment, & Community Relations

- Perform all condition monitoring activities in accordance with Company HSE procedures, risk assessments, LOTO requirements and applicable standards.
- Ensure inspections are conducted safely, particularly around operating/rotating equipment, elevated areas and restricted-access locations.
- Conduct and participate in risk assessments, ensuring identified hazards, risks and controls are appropriately addressed before work commences.
- Immediately report unsafe conditions, equipment defects, incidents, near misses and environmental concerns through the appropriate Company reporting processes.
- Promote HSE awareness and proactive hazard identification among Maintenance, Processing and Operations personnel.
- Support initiatives that improve safety, environmental performance and equipment reliability.
- Promote a proactive reliability and safety culture focused on defect prevention, early intervention and safe equipment operation.
- Operate vehicles, mobile equipment and plant only when trained, competent and authorised.
- Lost Time Injury (LTI) Performance – Target: Zero LTIs within the Maintenance Department.

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Doc. ID: Tzs-HRE-TEM-10487	Rev No:	Date Issued 11 October 2026	Date Printed: 28/08/2026

People Management

- Build and maintain positive and professional working relationships with colleagues, contractors and stakeholders, supporting effective teamwork and communication.
- Work collaboratively with Maintenance, Operations, Engineering and other multidisciplinary teams to ensure timely communication and resolution of equipment condition issues.
- Share condition monitoring knowledge, findings and recommendations with Maintenance and Operations personnel to promote equipment health awareness and proactive maintenance practices.
- Support a proactive reliability culture through teamwork, knowledge sharing, early defect identification and continuous improvement.
- Maintain effective communication with OEM representatives, specialist service providers and contractors as required.
- Comply with all Company policies, procedures and standards, including the Code of Conduct, Fit for Work, Equal Employment Opportunity, and workplace conduct requirements, contributing to a positive, inclusive and safety-focused workplace.

Operations

- Perform scheduled condition monitoring activities on critical assets, including SAG and ball mills, crushers, slurry pumps, pipelines, agitators, conveyors and thickeners.
- Conduct vibration analysis, infrared thermography and ultrasonic inspections in accordance with established monitoring routes, frequencies and measurement points.
- Collect oil samples from gearboxes, hydraulic systems, and other applicable equipment for laboratory analysis and interpret results to identify contamination, degradation or abnormal wear.
- Analyze condition monitoring data to identify developing defects such as misalignment, unbalance, bearing degradation, lubrication issues and electrical abnormalities.
- Ensure condition monitoring routes, inspection frequencies, measurement points and data collection methods are consistently applied.
- Prepare condition monitoring reports and raise CMMS notifications/work requests where maintenance intervention is required and follow up if correction has been done.
- Work with Maintenance, Planning and Operations to determine appropriate intervention timing based on equipment condition, risk and operational requirements.
- Participate in Root Cause Analysis (RCA), failure investigations, defect elimination and continuous improvement initiatives.
- Maintain accurate and up-to-date equipment health records, inspection results, trends, defects and recommendations within the CMMS/reliability system.
- Monitor outstanding conditions, monitoring recommendations and follow up to ensure required actions are completed.
- Maintain, and correctly use condition monitoring equipment, including vibration analyzers, thermal cameras, ultrasonic equipment, laser alignments and data collectors, ensuring equipment remains fit for purpose and organizing calibration of equipment's if required.
- Support the development and optimization of predictive and condition-based maintenance strategies.
- Perform other duties within the scope of the role as directed by management.

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Skills, Knowledge, Abilities and Attributes:

Essential

- Minimum five (5) years' experience in Condition Monitoring, preferably within a mining, mineral processing, heavy industrial or similar operational environment.
- Minimum Level 1 certification in Vibration Analysis.
- Relevant technical qualification, trade background or demonstrated practical experience in condition monitoring and predictive maintenance.
- Practical experience in vibration analysis, infrared thermography, ultrasonic inspection and oil condition monitoring and Knowledge of lubrication management and oil analysis principles and interpretation.
- Ability to collect, analyse and interpret condition monitoring data and identify developing defects or abnormal equipment conditions.
- Good understanding of Reliability-Centred Maintenance (RCM), predictive maintenance and condition-based maintenance principles.
- Ability to interpret OEM/vendor manuals, mechanical drawings, equipment specifications, technical documentation and parts information to identify maintenance requirements and required spare parts.
- Working knowledge of Microsoft Project.
- Proficiency in Microsoft Office, particularly Power, Excel, Word and Outlook.
- Valid approved driver's licence and ability to operate Company/site vehicles where required

Desired

- Mechanical Engineering, Mechanical Trade, or other relevant technical qualification.
- Additional technical training or demonstrated experience with mining and mineral processing plant, mechanical equipment and systems.
- Formal certification in one or more condition monitoring disciplines, including Vibration Analysis level 2, Infrared Thermography, Ultrasonics and/or Oil Analysis.
- Experience with Root Cause Analysis (RCA), failure investigations and defect elimination.
- Knowledge of OEM equipment and maintenance practices, with the ability to apply manufacturer recommendations to condition monitoring and maintenance strategies.
- Pronto CMMS experience or SAP

Qualifications & Licences:

- Trade qualifications or Diploma in a maintenance or other related field

Additional Information:

- Prepared to undertake external training to complement the operation.
- Incumbent may be expected to work outside Normal Working Hours on occasions to support operational and maintenance requirements.
- Incumbent will from time to time be required to travel on company business from time to time, including site visits, training and engagement with OEMs or service providers.

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Where You'll Be Working

Nyanzaga Gold Project is Perseus's first planned operation in Tanzania, located in the Lake Victoria Goldfields. A Final Investment Decision was made in April 2025, with first gold production targeted for early 2027.

The project places strong emphasis on sustainability and local development, with programs dedicated to employment, skills training, infrastructure, and long-term social outcomes. Once operational, Nyanzaga is expected to become a key contributor to Perseus's future growth and a flagship project in East Africa.

About Us

Perseus Mining Limited is an ASX and TSX listed gold producer, developer, and explorer focused on the African continent.

With a strong pipeline of projects including our flagship Nyanzaga development in Tanzania and an expanding presence in the region, we currently operate three gold mines: Edikan in Ghana, and Sissingué and Yaouré in Côte d'Ivoire.

Driven by a clear growth strategy to maintain annual gold production exceeding 500,000 ounces, Perseus is focused on operational excellence and long-term value creation.

We are dedicated to developing skills, offering rewarding careers, and providing the opportunity to make a real impact within a progressive and growing organisation spanning multiple African nations.

How to Apply

Applications will only be received by email to perseus@globeconnect24-7.com with the advertised job title **Condition Monitoring Technician** as the subject line of the email.

Applications close on **01st November 2026**. Perseus Mining reserves the right to remove advertised roles prior to this date. Only shortlisted applicants will be contacted.

To align with Perseus Mining's commitment to safety, the successful candidate will be required to undergo pre-employment checks, including a medical screening.

Perseus Mining is an equal opportunity employer that supports and cultivates a diverse workforce. We value our employees and empower them to enhance their skills and advance their careers

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