

Standard Aero – Technician Mat Lab

Materials Lab Technologist:

The Materials Lab Technologist will provide technical, material, and reporting support and services using material laboratory facilities.

The incumbent will provide analytical and technical support services to support failure analysis, process engineering, repair development engineering, reliability investigations, warranty or litigation cases, and special process certification or material acceptance for regulatory and contractual requirements.

Responsibilities:

- Provides technical support, analysis and report writing for the microstructural analysis of turbine engine components. (i.e., turbine blade analyses).
- Provides assistance in the interpretation of materials test results and advises on appropriate laboratory analytical techniques to be used for failure analysis, research or on-going support.
- Schedules production and project work and generates delivery measures of performance.
- Provides technical input for the development of new repair technologies based on laboratory test results.
- Prepares complex metallurgical tests according to prescribed procedures and maintains records of results.
- Prepares samples for metallographic analysis including sectioning, mounting, polishing, etching and electro-etching.
- Ensures compliance to the applicable internal quality requirements.
- Participate in proactive risk analysis of flight/product safety critical parts and processes.
- Tracks and distributes test results, records batch information, and prepares logs for traceability.
- Maintains all laboratory files and records necessary for the regulatory and contractual needs of the company.
- Maintains and orders necessary equipment and consumables to perform all laboratory work including purchase orders, expenditure authorizations, cost benefit analyses, project schedules and reports, and procurement specifications.
- Responsible for observing all applicable safety requirements and reporting immediately any unsafe practices/conditions.
- Carries out special projects as assigned.

Requirements:

- College diploma in mechanical engineering technology, sciences, metallurgy; or equivalent.

- High degree of mechanical aptitude, accuracy and precision.
- Ability to read, understand and interpret blueprints.
- Working knowledge of precision measuring instruments.

Preferred Characteristics:

- Experience in a metallurgical and/or chemical laboratory environment
- Experience within an aerospace or manufacturing setting
- Registration as a Certified Engineering Technologist (CET) by a provincial association of engineering/applied science technologists; or equivalent considered an asset

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