

*Quantiam Technologies Inc. is an innovative, expanding company, offering new opportunities to motivated, hard-working and energetic employees.*

**Position Title:** Research Technologist I/II/III, R & D – (1 position) Wear & Corrosion Products

**Competition #:** 7000-15

**Compensation Range:** \$22.00 – 28.00 per hour (*depending on experience*);  
with a 0-to-24% Performance Bonus; 40 hour work week; overtime applies; highly comprehensive competitive Benefits package; Group RRSP with matching Deferred Profit Sharing Plan (DPSP)

**Experience:** 3 – 7 years related hands-on industrial experience

**Closing Deadline:** Until Filled

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**Education:**

- 2-year recognized College Diploma in Materials Engineering Technology, Mechanical Engineering Technology, Nano Systems Engineering Technology, Chemical Technology, Chemical Engineering Technology; **or**
- Complete or Partial University Bachelor degree in Materials Science, Materials Engineering or Chemistry.

**Experience/Specific Skills/Background Required:**

- High level of proficiency and excellent mechanical aptitude to operate complex research equipment and demonstrated technical knowledge and ability to work with chemicals and instrumentation.
- Well-developed interpersonal skills and must have strong understanding of and adherence to written and verbal instructions concerning general procedures.
- Self-starter, highly motivated and able to work efficiently and independently as well as in a team environment.
- Fluent in English with excellent verbal and written communication skills.
- Strong willingness to learn and train in an advanced materials environment with extensive use of chemicals, materials and advanced equipment.
- Ability to accurately follow procedures, take direction and have strong record and note keeping skills.
- Adhere to the highest standards of quality, reliability, and safety including using and wearing protective personal equipment appropriately.
- Good hands-on computer experience.
- Strong analytical and reporting skills.
- Strong attention to detail and a flexible approach to work responsibilities.
- Strong work ethics with demonstrated accountability and reliable punctuality and work attendance.

**Brief Job Description:**

*Responsibilities (with training) include assisting in the following Wear and Corrosion Products unit:*

- Assist in the development and characterization of novel advanced materials, surfaces, coatings and catalysts aimed at exploiting the properties of the micro and nano structured materials, for use under extreme operating conditions such as high temperatures.
- Collect and record experimental data.
- Metallographic preparation of materials, coatings and surfaces for optical microscopy and electron microscopy.
- Develop proficiency with Electron Microscopy (inclusive of Field Emission) and Energy Dispersive Spectroscopy (SEM/EDS), X-ray Diffraction (XRD) and other advanced materials characterization analytical tools.
- Operation of vacuum-based high-temperature furnaces for materials processing and performance testing.
- Operation of a range of ASTM standardised tribological instrumentation.
- Operation of a broad-based vacuum and heat treatment equipment for processing of materials.
- Safe handling and storage of materials, some repetitive tasks. Reading and understanding Materials Safety Data Sheets.

*The work may assist in other areas and also include with training:*

- Surface pre and post finishing of components for coating.
- Preparation of components such as tubes and complex shapes for processing.
- Operating metal surface preparation equipment such as grinders, polishers and grit blasters to remove excess welds, rust, scale and other material from surfaces of metal parts, castings and other metal products.

The position will involve a minimum 1-year training period and which may involve rotation assignment to a pilot-scale manufacturing or commercial-scale manufacturing.

***We thank all applicants in advance for their interest; however only those individuals selected for an interview will be contacted.***

Please forward to Human Resources a resume and cover letter in one (1) Word document or PDF document including competition number:

Quantiam Technologies Inc.  
1651 – 94 Street Edmonton, AB T6N 1E6  
Email: [careers@quantiam.com](mailto:careers@quantiam.com)