

Quantiam is one of Canada's leading innovators in the fields of Advanced Materials, Catalysis and Nanotechnology serving the Chemical-Petrochemical, Defence & Aerospace, Oil & Gas and CleanTech sectors. We offer exceptional opportunities to motivated, hard-working and energetic employees that wish to make major contributions to industry and society through technology and innovation.

**Position Title:** Research Professional / Sr. Research Professional, Corporate R&T - MATERIALS

**Competition #:** 7000-06

**Base Salary Range:** \$70,000 - 95,000/year (*depending on experience*); plus a 0-to-20% Performance Bonus (increasing to 0-to-30% in 2016); a 40 hour work week; highly Competitive and Comprehensive benefits package; GRRSP with matching DPSP.

**Experience:** 3 years minimum; 7+ years related (hands-on) experience a strong asset

**Closing Deadline:** October 31, 2015, or until filled.

**Education:**

- M.Sc./M.Eng. or a Ph.D. from a recognized University in Materials Science, Materials/Metallurgical Engineering, Physical Chemistry, Surface Chemistry, Nanotechnology, Engineering Physics or a related combined program focusing on studies in Advanced Materials.

**Specific Skills/Background Required:**

- Strong Advanced Materials expertise with a focus on metallic and ceramic systems. Will support two major groups in R&T: (1) Energy Materials and Alternative Energy; and (2) Wear & Corrosion Coatings.
- Self-starter, highly motivated; comfortable with little direct supervision with ability to work in a team environment.
- Strong Project leadership skills.
- Strong design, analytical and problem solving skills, to develop solutions and optimal paths forward in innovation and commercialization.
- Ability to define problems, properly evaluate and interpret data.
- Ability to chart critical path needed to bring long term projects successfully to market.
- Must demonstrate a solid understanding of advancing research and technology to commercialization, and developing best practices and procedures with excellent written and verbal communication skills.
- High attention to detail across all facets of new product innovation.
- Strong documentation and excellent computer skills.
- Excellent mathematical skills. Provide calculations to prepare, perform and conclude tests and analyses.
- Excellent mechanical aptitude for designing mechanical solutions to often world-first process challenges at high temperature, high vacuum, or extreme performance and quality requirements. Operation of a broad-range of analytical equipment.
- Experience and strong understanding with combination of chemical and physical metallurgy principles in joining metal alloys for commercial and industrial purposes.
- Experience in creation of new materials, combination of metal, alloys, and other substances.
- Characterization and interpretation of data and test results to achieve targeted materials systems properties and necessary quality levels.
- Highly developed interpersonal skills along with the ability to function in multiple cross-functional project teams within the company and with its international partners and consortium members.
- Highly safety-conscious; support and advance safety practices; proper and extensive use of Protective Personal Equipment (PPE); strives to always seek engineering safety solutions over PPE solutions.
- Mature and responsible individual with strong work ethic with demonstrated accountability; reliable and exemplary work attendance.

**Brief Job Description**

Responsibilities (with training) include assisting in both Energy Materials and Wear & Corrosion Coating areas as required:

- Develop/Lead/Support Research Projects in the fields of Advanced Materials, Surfaces, Coatings, Catalysts serving Chemical-Petrochemical, Defence & Aerospace, Oil & Gas, and CleanTech sectors.
- Broad-based and hands-on experience with microstructural and performance characterization of materials dimensionally ranging from bulk materials through to nanomaterials with State-of-the-Art analytical instrumentation.
- Design and execute experimental plans. Interpret data and results; develop and refine research plans. Comfortable at extreme level of innovation characterized by high task failure but always striving to secure project success for disruptive innovation.
- Support design, manufacturing, internal and external quality functions regarding metallurgy issues and materials microstructural analyses, failure analyses and materials engineering to achieve new performance levels.
- Able to work with global, multidisciplinary teams at the leading edge of innovation.
- Write reports and effectively present information at high levels of expertise to a broad range of audiences.
- Effectively interact with other areas in R&D and Manufacturing; participate for Quantiam on project teams across industry sectors and in other countries.
- Assure proper documentation of technical data generated for projects for IP protection, compliance with multi-company agreements, and securing funding and financing.
- Maintain world-class technical expertise in a core area and ensures continuing development of skills and expertise.

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

Please forward your resume to Human Resources by October 31, 2015 in one (1) word document or PDF document, including competition number to:

Quantiam Technologies Inc.

1651 – 94 Street Edmonton, AB T6N 1E6

Fax: 780.465.6603 or Email: [careers@quantiam.com](mailto:careers@quantiam.com)