

Quantiam Technologies Inc. operates in “Tough Tech” solving some of the world’s greatest materials-related challenges. It undertakes Research and Commercialization of disruptive new products in the fields of Advanced Materials, Advanced Manufacturing, Coatings, Surfaces and Catalysis primarily serving the CleanTech, Petrochemical-Chemical, Energy and Defence-Aerospace sectors. **We are looking for a motivated, hard-working and energetic individual with a great attitude, a strong work ethic and excellent people skills to join our team of disruptive innovators.**

Position Title: **Sr. Research Professional or Principal Professional [TRL1-9]:
High Temperature Coatings, Surfaces and Alloys**

Competition #: 7000-21

Compensation Range: **\$85,000 - \$125,000/year (depending on experience);** with a 0-24% Performance Bonus and a generous ESOP being finalized by 2022 tied to successful commercial spin-outs; 40-hour work week; highly comprehensive and competitive benefits package; Group-RRSP with matching Deferred Profit-Sharing Plan (DPSP)

Experience: 6 to 15+ years of related hands-on industrial research and operating experience

Closing Deadline: Until Filled

Education: **Ph.D.** Materials Science or Materials Engineering (candidates with an M.Sc., / M.Eng. and extensive experience will also be considered)

Brief Job Description:

Responsibilities (with training) includes the following

- Senior-level leadership of large-scale R&D projects of \$1M to \$10M in high temperature materials, coatings, and surfaces disruptive to the world, having high potential benefits with commensurate high risks, and serving the CleanTech, Petrochemical-Chemical, Energy and Defence & Aerospace sectors.
- Operation of core research and analytical equipment and good-to-strong proficiencies with a reasonable number of the following: state-of-the-art (surface sensitive and high temperature) XRD, FE-SEM/EDS, AES/SAM/SIMS, small-spot XPS. Experience with advanced characterization of materials properties is highly desirable.
- Oversee the planning and development of novel materials, surfaces, coatings and catalysts aimed at exploiting the properties of micro and nano structured materials, for use under extreme operating industrial conditions.
- Oversee use of best practices in experimental planning, experimental design, collection of experimental and analytical data, and interpretation as warranted. Comfortable challenging current understating and accepted limitations; pursue scientific and engineering success without hesitation; “*experimental failure*” means nothing but a stepping stone.
- Summarize results for clients and management team in high quality reports and presentations necessary for critical and strategic decisions; a go-to expert, internally and externally recognized.
- Fearless of technological unknowns; ready to take-on the greatest challenges facing humanity as achievable through hard work, tenacity and excellence.
- Supervise and mentor technical personnel from across the globe and across disciplines; excellent emotional quotient in managing people and teams.

Experience/Specific Skills/Background Required:

- Demonstrated leadership skills at a high level of responsibilities.
- High level of proficiency and excellent aptitude in operating complex research equipment and demonstrated technical knowledge and ability to work with materials, high temperatures, and advanced analytical instrumentation.
- Strong task management ability in generating, interpreting and reporting on characterization results.
- Excellent English skills, oral and written, excellent written and verbal communication skills with well-developed interpersonal skills.
- **Self-starter, highly motivated** and able to work and perform efficiently and independently as well as in a team environment with little supervision.
- Experience working in a “pioneer-class” advanced materials environment having world-class tools.
- Strong time management skills with the ability to work to critical deadlines.
- Adhere to the highest standards of quality, reliability, and safety including the use of proper protective personal equipment (PPE).
- Strong attention to detail and a flexible approach to work responsibilities.
- Prioritizes and plans work activities; uses time efficiently; capable of supervising junior technical staff across disciplines and cultures.
- Strong work ethic with demonstrated accountability; reliable punctuality and work attendance.

We thank all applicants in advance for their interest; however only those individuals selected for an interview will be contacted. Quantiam is an equal opportunity employer.

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

Quantiam Technologies Inc.

1651 – 94 Street NW, Edmonton, AB T6N 1E6

E-mail: careers@quantiam.com