

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

Position Title: Jr. Research Professional / Sr. Research Technologist - Energy Materials
One (1) Position

Competition# 7000-13

Compensation Range: **\$55,000 – 75,000/year** (*depending on position and experience*); with a 0-to-30% Performance Bonus; 40 hour work week; highly comprehensive competitive Benefits package; Group RRSP with matching Deferred Profit Sharing Plan (DPSP)

Experience: 2 - 7 years related hands-on industrial experience is desirable

Closing Deadline: Until filled

Education:

- University **Bachelor** or Masters Degree in Physics/Engineering Physics, Chemical Engineering, Mechanical Engineering or Chemistry.

Experience/Specific Skills/Background Required:

- Strong computer skills. (LabVIEW, Matlab, other programming languages strong assets)
- Interest and/or proficiency in electronics and lab automation and data management
- 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. Fluent in English.
- Self-starter, highly motivated and able to work efficiently and independently as well as in a team environment.
- Must demonstrate an understanding of and adherence to written and verbal instructions concerning general procedures with strong record and note keeping skills.
- Strong willingness to learn and train in an advanced materials environments with extensive use of chemicals, materials and advanced equipment, and proper use of protective personal equipment.
- Adhere to the highest standards of quality, reliability, and safety including using and wearing protective personal equipment appropriately.
- Strong analytical and reporting skills.
- Strong attention to detail and a flexible approach to work responsibilities.
- Positive ‘can-do’ attitude. Able to accommodate multiple tasks, changing priorities and advance projects under accelerated timetables.
- Experience with chemical process simulation (i.e Aspen) an asset.
- Experience with fluid dynamics simulation software (i.e. Ansys) an asset.
- Strong work ethics with demonstrated accountability and reliable punctuality and work attendance.

Brief Job Description:

Responsibilities (with training) include assisting in the following:

- Development of custom hardware and software to enable execution of ongoing research projects.
- Operation/Setup of reactors for screening of heterogeneous catalyst materials and coatings.
- Method development and setup of pilot reactor and measuring equipment.
- Operation of complex in-house surface characterization equipment that may include FE-SEM/EDS, small-spot XPS, AES/SAM/SIMS and XRD.
- Operation of a broad-based vacuum and heat treatment equipment for processing of materials.
- Development, synthesis and characterization of novel materials, surfaces, coatings and catalysts aimed at exploiting the properties of the micro and nano structured materials.
- Operation of a broad-range of analytical equipment inclusive of TGA and GC.

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 your resume and cover letter in one word or PDF document including competition number to:

Quantiam Technologies Inc.

Attention: Human Resources

1651 – 94 Street Edmonton, AB T6N 1E6

Email: careers@quantiam.com