

Quantiam Technologies is an innovative and growing company in the fields of Nanotechnology & Advanced Materials (NAMS) and Advanced Manufacturing primarily serving the Petrochemical, Energy and Cleantech sectors. We are seeking to fill following job opportunity in our Research & Technology Group.

Position Title: **Research Professional / Sr. Research Technologist – Analytical & Technical Services (Research & Technology Group)**

Competition# 7000-14

Compensation Range: **\$60,000 – 85,000/year** (*depending on position and experience*); with a 0-to-24% Performance Bonus; 40 hour work week; highly comprehensive competitive Benefits package; Group RRSP with matching Deferred Profit Sharing Plan (DPSP)

Experience: 3 - 10 years direct hands-on industrial experience.

Closing Deadline: Until filled

Education:

- University Bachelor, Masters or Ph.D. Degree in Chemistry, Materials Science, Engineering Physics or Geology

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 materials, chemicals and instrumentation.
- Must have strong analytical and reporting skills.
- Experience and operation with electron microscopy and related spectroscopy and thorough command of X-ray diffraction techniques, particularly powder X-ray diffraction and qualitative phase analysis.
- Ability to learn and understand the operation and of electron microscopy and X-ray spectroscopy and microanalysis instrumentation. This includes related spectroscopy techniques as energy dispersive x-ray spectroscopy, Auger electron spectroscopy and X-ray photoelectron spectroscopy
- Adhere to the highest standards of quality, reliability and safety. Proper use of protective personal equipment, chemical safety and laboratory skills appropriate for an electron microscopy with sample preparation facilities.
- Strong computer skills; programming skills would be a good asset.
- Ability to perform tasks requiring a high degree of manual dexterity.
- Well-developed interpersonal skills to collaborate with co-workers 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 environment with extensive use of chemicals, materials and advanced equipment.
- Strong attention to detail and a flexible approach to work responsibilities.
- Positive ‘can-do’ attitude. Able to prioritize, accommodate multiple tasks, changing priorities and advance projects under accelerated timetables.
- Strong work ethics with demonstrated accountability and reliable punctuality and work attendance.

Brief Job Description:

Responsibilities (with training) include assisting in the following:

- Work with highly-sophisticated materials (coatings, surfaces, powders, catalysts) characterization equipment, housed at Quantiam supporting both R&D and Trial Manufacturing.
- Operation of complex in-house materials characterization equipment that includes FE-SEM/EDS, small-spot XPS, AES/SAM/SIMS, XRD, TGA/DSC, TGA, GC and particle size analyzers.
- Strong expertise in materials characterization using Scanning Electron Microscopy and Energy Dispersive Spectroscopy; experience with X-ray Diffraction methods.
- Data acquisition, data analysis and creation of detailed reports based on results generated.
- Ability to co-ordinate/manage an Analytical and Technical Services function to support internal Research & Technology projects.

The position will involve a *minimum 1-year training period* supporting Research & Development, Analytical & Technical Services and Trial 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 careers@quantiam.com