

Quantiam Technologies Inc., is an innovative and expanding company in the field of "TOUGH TECH". We offer new opportunities to motivated, hard-working, and energetic individuals who are interested to help us solve some of the world's greatest challenges in Advanced Materials, Coatings, Catalysis, Advanced Manufacturing and Clean Energy. **We are currently seeking candidates passionate about cleantech to join our Energy Materials team and take a leading role in scaling up our Clean Hydrogen (Green and Turquoise) Green Methanol technologies focusing on catalyst synthesis.**

Position Title: Research Professional II, III or Senior Research Professional
Competition #: 7000-25
Compensation: **\$75,000 - \$105,000/yr** (depending on experience); 40-hour work week; comprehensive competitive Benefits package; Group RRSP with matching Deferred Profit-Sharing Plan.
Experience: **2 – 5+ years** related hands-on experience.
Education: Ph.D. or M.Sc. in Chemistry or Chemical Engineering

Closing Deadline: Until Filled

Brief Job Description:

- Lead the scale-up of the Energy Materials Program catalysts. Maintain quality while increasing scale and reducing cost. Scale from grams to kg and beyond.
- Synthesis and characterization of novel catalyst materials.
- Set up and operate high throughput equipment for catalyst and coatings screening.
- Operation of tube furnaces with controlled temperature, pressure, and atmosphere for materials synthesis and post-processing.
- Analysis of new solid, solution, and gas phase materials *via* techniques such as GC, MS, TGA, DSC, BET surface area, TPD, TPR, SEM-EDS, XRD, UV-VIS, etc.
- Operation with training of custom in-house laboratory-scale and pilot-scale process test apparatus.
- Operate, with training, analysis *via* XPS and AES.

Skills/Work Experience Required:

- **Chemical synthesis:** Preference for knowledge of both air-free liquid phase and solid-state techniques
- **Process Chemistry:** Strong experience in process and synthesis scale-up
- **Characterization:** Knowledge and experience of standard catalyst characterization techniques. i.e., Particle size, BET surface area, TPD, TPR, SEM-EDS, XRD, GC, MS, TGA, etc.
- **Digital/Computer:** Ability to create compelling data visualization and analysis. Strong skills with Microsoft Office Suite (Word, Excel, PowerPoint). Ability to develop and troubleshoot code for automation and analysis via MATLAB, LabVIEW or Python is nice to have.
- **Analytical:** Strong reporting and problem-solving skills.
- **Quality of Work:** Must adhere to the highest standards of quality, reliability, and safety on all deliverables. Strong attention to detail and flexible approach to work responsibilities.
- **Fluent in English:** Excellent verbal and written communication skills.
- **Strong Productivity:** Able to plan and prioritize workload and use time effectively to advance projects.

Behavioural Skills Required:

- **Must have a strong work ethic: You get the job done safely and on time. You set an example by exemplifying personal accountability, reliable productivity, attendance, and punctuality.**
- **Well-developed interpersonal skills:** Understand and adhere to written and verbal instructions.
- **Initiative and Motivation:** Must be a self-starter and be highly self-motivated, able to work efficiently and independently as well as in a team.
- **Team player:** You understand and respect the roles and contributions of each team member.
- **Positive attitude:** Your behaviour affects that of everybody around you in a positive way.
- **Customer orientated:** You provide quality customer service to internal and external clients.
- **Respect:** You respect your teammates and you always ready to help them achieve our common goals.
- **Strong willingness to learn:** Passion for technology. There is a wealth of practical know-how, chemistry, and physics behind every unit operation at Quantiam.

COVID-19: All employees must provide proof of FULL vaccination as defined by Alberta Health Services for the safety of our staff and visitors.

We thank all applicants in advance for their interest. Only those 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 to: E-mail: careers@quantiam.com