



Nanomaterials Synthetic Chemist

Edmonton, Alberta

Full-time, Permanent position, 40-hour work week

Benefits include medical, dental and vision insurance and paid vacation.

Company Description

Applied Quantum Materials Inc. is the world's pioneer in the synthesis of silicon quantum dots and other Group 14 nanomaterials that can be used in nanoelectronics, sensors, displays, nanocomposite polymers, photovoltaics, battery materials, and bioimaging. We are based in Edmonton, Alberta, and are currently seeking a knowledgeable and motivated person capable of working effectively in a multi-disciplinary team environment. With your commitment and the drive you bring to the workplace every day, you will be part of a team that is changing the world with the creation, development, and integration of new advanced nanomaterials.

Job Description

This position is ideal for motivated individuals who seek to grow in their technical skills. The responsibilities include supporting the product team to fabricate and characterize nanoparticles, prepare specification sheets, and carefully follow standard operating procedures for the development of new nanomaterials, composites and large-scale production of nanoparticles. We are passionate about what we do and are looking for smart, energetic, and self-motivated individuals who take pride in their work to join our innovative team in this transformational industry. We believe that a strong material chemistry background will be very helpful to be successful in the role. Prior knowledge and hands-on experience working with nanomaterials are an asset.

Qualifications

- Bachelor's degree in chemistry with experience in the field of nanomaterials and polymer science.
- Ability to multi-task, handle frequently changing job functions, and rapidly learn new techniques and approaches
- Demonstrated ability to work independently and as a team member.
- Proven problem solving and trouble shooting skills.
- Demonstrated attention to detail.
- Excellent oral and written communication skills.
- Proficiency in French would be considered an asset.
- A Canadian citizen, a permanent resident, or a protected person under the Canadian Immigration and Refugee Protection Act and legally entitled to work and study in Canada.

Knowledge, Experience and Analytical Skills

- Experience with good laboratory practices (including safety protocols) and benchtop preparative techniques.
- Basic experience with the synthesis of inorganic nanostructures (e.g., nanoparticles, quantum dots).
- Experience performing reactions under an inert atmosphere (Schlenk line and glove box) and manipulating air- and moisture-sensitive, flammable, corrosive, and/or toxic chemicals.
- Experience with physical, inorganic chemistry laboratory procedures, techniques, and equipment.
- Experience with molecular and materials science analytical techniques (FTIR, UV-Vis, Fluorescence)
- Experience with general material characterization techniques and data interpretation is essential.
- Experience with various microscopy methods would be considered an asset.
- Excellent demonstrated communication (both verbal and written), interpersonal, strong planning, and outstanding problem-solving skills.
- Demonstrated ability organize and record data.
- Demonstrated ability to write and follow standard operating procedures.
- Proficiency in Microsoft Office computer software (Word, Excel, PowerPoint).

Application Process

Qualified candidates should submit a resume and cover letter to contact@aqmaterials.com The cover letter should include information and specific examples on how your previous experience relates to the job requirements and your availability. You will not be considered without a cover letter.

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