



Job Description 2021-08

Position:-Industrial Post-Doctoral Fellow – Molecular Biologist

Location: Edmonton, Alberta

Company Background:

Applied Quantum Materials Inc. is the world's pioneer in the synthesis and manufacturing of silicon quantum dots and specialized nanomaterials that can be used in nanoelectronics, sensors, nanocomposite polymers, photovoltaics, and molecular diagnostics. 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.

Recently AQM has used its expertise to develop materials used in clinical molecular diagnostics. We are currently seeking a post-doctoral fellow to further development of diagnostic tests which will be used to diagnose a range of human diseases from viral infections to cancer.

Recent graduates will be supported by a MITACS scholarship (<https://www.mitacs.ca/en>). This scholarship promotes an industry-academic partnership providing fellows with specialized training workshops to enhance leadership and communication skills, as well as career and project management.

Specific Responsibilities:

We are seeking a knowledgeable and motivated professional who excels in a multi-disciplinary team environment. The successful candidate will assume a full-time employment role as an Industrial Post-Doctoral Fellow. Ideal candidates will be creative individuals who think "outside-the-box", work independently, and have a keen desire to work together to support a professional team dedicated to make a meaningful difference in introducing new technologies and applications into the marketplace. The candidate should thrive on performing well within a stimulating and fast-paced environment.

The successful candidate must display the core values of integrity, commitment, and collaboration while working at a high level of excellence and taking personal accountability for their actions. The position will remain open until a suitably qualified candidate is identified.

We offer the successful candidate the opportunity to work within a culture of highly motivated, talented individuals who are dedicated to the company's mission. This job provides wide-ranging responsibilities due to numerous product applications and the opportunity to enhance their skills through ongoing project development.

Expectations

- Leads the design of magnetic bead based diagnostic test kits for use in various human disorders.
- Establishes quality assurance and control for test reagents, including the development of all related quality manuals.
- Performs common molecular biology techniques including but not limited to nucleic acid extractions (RNA and DNA), primer design, PCR and real-time PCR, electrophoresis.
- Understands procedures on good lab practice as it relates to a molecular laboratory.
- Knowledge of other molecular biology assays such as isothermal PCR, loop-mediated isothermal amplification, and flow cytometry-based assays would be considered an asset.
- Writes progress reports, technical reports, proposals, and original research papers.
- Project management as required to meet client needs and defined by AQM management and the Academic Partner.
- Trains other students or staff on quality control procedures established for diagnostic test material.
- Oversee project resources - specific equipment and apparatus requirements, including all chemicals, raw materials for assigned projects.
- Maintain the highest safety protocols.
- Represent the company at meetings with clients as required.

Qualifications

- Requires a Ph.D. in molecular biology or related discipline.
- Proficiency of Microsoft Office, and Microsoft SharePoint computer software.
- 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.

If you are an enthusiastic person interested in industrial applications with a demonstrated track record, please send your CV and cover letter including addresses for 3 referees to: contact@aqmaterials.com