



**Polymer & Coatings Engineer / Scientist**  
**Full time**

Location: Winnipeg, Canada

Exigence Technologies Inc. is seeking an engineer/scientist fluent in polymer chemistry, polymer curing mechanisms and the science of coatings for a permanent full time position in Winnipeg, Canada. Additional expertise in polymer synthesis and polymer characterization would be considered an asset.

**Responsibilities:**

- Assists in the conceptualization and design of novel compounds building on the Company's existing intellectual property
- Develop formulations incorporating novel compounds in various polymer systems
- Support documentation efforts through reports and standard work documents
- Advises on molecular design to efficiently integrate novel compounds into existing polymer systems
- Assists in the selection of polymer systems for development specific to end use applications, considering all mechanical, chemical, and functional requirements which the resulting coating must achieve
- Develop test plans and process parameters for the application of polymeric systems in a variety of coatings
- Interacts with external entities including industrial partners or customers to support collaborative testing / development arrangements
- Supports the technology transfer from laboratory to commercial/industrial level application
- Writes or assists in writing and submission of patent applications
- Interacts with a multi-functional, multi-skilled team to achieve integrated output of project results

**Skills & Abilities:**

- In depth knowledge of polymer systems and curing mechanisms, in particular resin coatings
- Ability to plan and carry out development projects formulating polymer systems for industrial applications
- Ability to work in multiple roles, multitask efficiently and take part in a strong teamwork mindset
- Plan and carry out a range of experiments primarily in the laboratory but potentially also in industrial settings. Eagerness to "get your hands dirty" and work with small and medium hand tools, processing and laboratory equipment
- Develop new coating process to meet development objectives
- Optimizing parameters set out by the use case such as processing conditions, mechanical properties, chemical resistance, and functional performance of a coating
- Knowledge of polymer characterization test standards and methods, both physical and chemical properties.
- Familiarity with and ability to carry out test protocols from ASTM, ISO and other standards organization
- Analyzing and evaluating statistical data and researching scientific literature
- Writing reports and/or scientific papers, presenting findings to the management team
- Assisting with product development by making recommendations to balance potential benefits against risks
- Track record of executing fundamental material science research from idea generation to commercialization

**Education & Experience:**

- PhD or Masters Degree in Polymer or Organic Chemistry, Polymer Engineering, Material Engineering, **or other relevant disciplines or equivalent combination of education and relevant industry experience**
- Knowledge of chemical modification and processing of polymers required
- Deep understanding of thermosetting polymer systems a must, working knowledge of thermoplastic polymer systems would be a benefit
- Relevant industry experience will be considered in absence of formal education
- Superior English language skills required

**Company description:**

Exigence Technologies Inc. is a material science R&D company focused on developing new coating systems with bioactive properties. The Company is closely integrated with major industrial and life science users of the technology, developing coating solutions specifically attuned to deliver high performance microbial control while meeting other industrial requirements, such as processability, biocompatibility, and mechanical and chemical resilience.

Bacteria and viruses cause disease and death in humans and animals, fouling of water and industrial systems, and spoilage of food across the globe, every day. The Company's next generation coating systems can deliver unmatched performance and service life to combat these problems while taking a leading sustainability position regarding concerns of environmental damage and the development of microbial resistance.

Please forward your cover letter and resume, along with three references to: [zwolff@exigencetechnologies.com](mailto:zwolff@exigencetechnologies.com)