

Post-Doctoral Researcher in Polymer Science – Bioproducts Pointe-Claire, QC

About FPInnovations

FPInnovations is among the world's largest private, non-profit research centres working in forest research. The organization helps the Canadian forest industry to develop path-breaking solutions based on the unique attributes of Canada's forest resources, favouring a sustainable development approach and taking full advantage of the industry's considerable scientific, technological and commercial capital.

Description

The Biomaterials Group within the Bioproducts Innovation Centre of Excellence at FPInnovations is seeking a post-doctoral researcher in polymer science at its' laboratory in Pointe-Claire, QC. Reporting to the Biomaterials Group Manager, this position will give the successful candidate the opportunity to independently carry through research that broadens FPI's knowledge and competitiveness in the composites area.

You are a dynamic, creative and driven individual that can inspire and lead a team of scientists and technologists in several areas of composite development containing wood fibers and their by-products. We focus on thermoplastics, thermosets, BMC, SMC.

You will propose, plan and oversee the execution of multi-year research projects leading to commercialization of novel composites.

You have fundamental knowledge and begun to develop expertise in polymer chemistry and processing, with particular emphasis on interfacial interactions between polymers and other materials and their impact on mechanical properties.

The incumbent's R&D responsibilities will focus on using tools and fundamentals of polymer science to develop concepts for engineering composite materials utilizing bio-sourced ingredients—primarily, but not solely, cellulose fibers and filaments and lignin.

She/He will be expected to:

- Carry out polymerization and other reactions;
- Conduct necessary, elaborate characterization using various analytical tools (e.g., Atomic force microscopy, X-ray diffraction, solid-state NMR, IR, XPS, contact angle, surface energy determinations);

- Develop novel patentable technologies and author publications in high-impact scientific journals.
- Assiduously follow FPInnovations' safety protocols.

Qualifications

- PhD in polymer chemistry, polymer science, materials science, materials chemistry, chemical engineering, or a related field;
- Strong research background, preferably substantiated by a record of publications in high-impact scientific journals, in at least two of the following fields:
 - ✓ Composite sciences, analysis and characterization
 - ✓ Surface functionalization and characterization,
- Demonstrated success working in a team environment;
- Excellent communications skills in English and/or French. Ability to write clear and concise scientific papers and patent disclosures in English, and make presentations to the staff and management.

Interested in this position?

Please send the following to Recruitment_recrutement@fpinnovations.ca:

1. Cover letter explaining how you may be able to contribute to research and development at FPInnovations' Biomaterials Group;
2. A detailed CV including publications list;
3. Two (2) sample publications.

IMPORTANT NOTE: Please indicate reference 567 on the subject line.