

Post-Doctoral Researcher in Materials Science – Bioproducts (Temporary – One-year contract) Vancouver, BC

Description

The Transformations and Interface Group within the Bioproducts Innovation Centre of Excellence at FPIInnovations has an opening for a post-doctoral position in materials science at its laboratory in Vancouver, BC. The Transformation and Interfaces Group has advanced leading research and development into the area of nanomaterials with emphasis on cellulose nanocrystals and filaments, emulsions, foams, photonic and electronic materials.

Reporting to the Transformations and Interface Group Manager, this position will give the successful candidate the opportunity to independently conduct high-level research that is in line with the vision and overall objectives set out by the Manager. Specifically, the candidate's responsibilities will focus on:

- Carrying out polymerization and other reactions;
- Assiduously following FPIInnovations' safety protocols;
- Conducting necessary, elaborate characterization using various analytical tools (XRD, solid-state NMR, IR, Circular Dichroism, UV-Vis);
- Learning new techniques for handling nanomaterials and advancing critical insights; and
- Developing novel patentable technologies and authoring publications in high impact scientific journals.

Qualifications

- PhD in materials science, materials chemistry, organic chemistry, polymer science or a related field.
- A strong research background, preferably substantiated by a record of publications in high-impact scientific journals, in at least two of the following fields:
 - Colloidal chemistry and surface sciences,
 - Nanomaterials synthesis, surface functionalization and characterization,
 - Photonic materials development, analysis and characterization,
 - Emulsions, hydrogels and sol-gel reactions, analysis and characterization,
 - Electromagnetism and/or energy storage materials analysis, characterization and development.
- Demonstrated success working in a team environment.
- Excellent communications skills in English and/or French, able to write clear and concise scientific papers and patent disclosures in English, and make presentations to the staff and management.

To apply

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' Transformation and Interfaces Group;
2. A detailed CV including publications list;
3. Two (2) sample publications.

IMPORTANT NOTE: Please indicate reference #365 on the subject line.

Those wishing to enquire about the position can contact Dr. Wadood Hamad, Transformation and Interfaces Group Manager, at wadood.hamad@fpinnovations.ca

<https://fpinnovations.ca/about-us/Documents/365-post-doctoral-researcher-in-materials-science-bioproductions.pdf>