

Postdoctoral Position in Sustainable Biologically-Derived Materials

The Biologically-Derived Materials & Devices Laboratory led by Prof. Noémie-Manuelle Dorval Courchesne at McGill University is seeking an outstanding postdoctoral fellow to work in the field of sustainable bio-derived materials. The position will be funded through a Canada Research Chair.

The Biologically-Derived Materials & Devices Laboratory (www.dorvallab.com) works on the fabrication of protein-based materials with novel properties. These materials could serve as sustainable alternatives for a range of applications, including bioplastics, bio-electronics, biosensors, and bio-functionalized textiles. The research is highly multidisciplinary, requiring skills ranging from molecular biology and protein engineering, to organic and inorganic (nano-)materials synthesis/assembly, (bio-)materials fabrication, and (bio-)materials characterization. The team is diverse and very collaborative.

McGill University is a leading research university in materials and biomedical research in Canada. Several institutes at McGill focus on sustainability and novel materials development, including the McGill Institute for Advanced Materials (MIAM), McGill Sustainability Systems Initiative (MSSI), and Trottier Institute for Sustainability in Engineering and Design. The Biologically-Derived Materials & Devices Lab also collaborates closely with Québec research networks, including the Québec Center for Advanced Materials (QCAM) and the Research Center for High Performance Polymer and Composite Systems (CREPEC).

McGill is located in Montréal, a vibrant and culturally rich city in the heart of Canada's mainly francophone province of Québec. Montréal is a francophone but largely bilingual city while the workplace language at McGill is English. Effective communication in English is valued.

Qualifications

- A PhD in areas relevant for the project, with interdisciplinary knowledge;
- Experience in at least two of these areas: synthetic/molecular biology, protein engineering, biomaterials, self-assembly, nanomaterials, composite materials, materials/device fabrication, (bio-)materials characterization (electrical/structural/mechanical/ compositional);
- Be self-driven, motivated, with a track record of accomplishments, teamwork, and strong oral and written communication skills.

Responsibilities

- Ideate and develop new strategies for fabricating novel functional protein-based materials.
- Optimize characterization protocols for protein-based materials.
- Lead projects, work with other lab members, mentor graduate and undergraduate students;
- Actively participate with group tasks, activities and meetings;
- Contribute to writing scientific manuscripts and grant applications.

Compensation

Salary and benefits will be determined in accordance with McGill policies and guidelines. See below for more information. Candidates are also encouraged to apply for external funding.

<https://www.mcgill.ca/gps/postdocs/fellows>

<https://www.mcgill.ca/hr/employee-relations/assocs-unions>

To apply

Email Prof. Dorval Courchesne (noemie.dorvalcourchesne (at) mcgill.ca) and include the following:

- A letter of motivation (.pdf)
- Your CV (.pdf)
- The names and contact information of 3 references that can provide a recommendation letter
- PDF copies of 2 selected journal publications
- Include “Postdoc CRC BDM” in the subject line of your email.

The earliest expected start date is fall 2021. Applications will be reviewed on a rolling basis until the position is filled. **Incomplete applications will not be considered.**

Commitment to equity and diversity

McGill University is committed to equity and diversity within its community and values academic rigour and excellence. We welcome and encourage applications from racialized persons/visible minorities, women, Indigenous persons, persons with disabilities, ethnic minorities, and persons of minority sexual orientations and gender identities, as well as from all qualified candidates with the skills and knowledge to engage productively with diverse communities.

At McGill, research that reflects diverse intellectual traditions, methodologies, and modes of dissemination and translation is valued and encouraged. Candidates are invited to demonstrate their research impact both within and across academic disciplines and in other sectors, such as government, communities, or industry.

McGill further recognizes and fairly considers the impact of leaves (e.g., family care or health-related) that may contribute to career interruptions or slowdowns. Candidates are encouraged to signal any leave that affected productivity, or that may have had an effect on their career path. This information will be considered to ensure the equitable assessment of the candidate’s record.

All qualified applicants are encouraged to apply; however, in accordance with Canadian immigration requirements, Canadians and permanent residents will be given priority.