Postdoctoral Positions Available

Applications are invited for two postdoctoral positions to conduct research in the areas of environmental nanotechnology and biotechnology with Dr. Subhasis Ghoshal, at the Department of Civil Engineering at McGill University. Current research projects in the Ghoshal laboratory focus on assessing the releases of nanomaterials from nano-enabled products, environmental fate of nanomaterials in soil and water environments, development of nanoparticles of water treatment and agricultural applications, and assessment and remediation of contaminated sites.

The positions are available immediately. Review of applications will continue until the positions are filled. The preferred start date is January 2019, but there is some flexibility. The initial appointment will be for one year with possibility for extension. The candidate should have completed their Ph.D. within 3 years prior to the date of joining. Candidates who will be completing their PhD by December 2019 may apply.

Successful candidates will have an outstanding record of scholarship and doctoral/postdoctoral research related to the areas of research described below. Excellent written and oral communication skills are essential. Candidates should be able to work independently, and in an interdisciplinary environment in collaboration with investigators in a number of science and engineering disciplines.

Position 1: Nanomaterials Characterization
The position involves research to develop methodologies for characterization of functional nanomaterials as pure samples, embedded in product surfaces and films, and released to environmental and biological matrices. Experience in using Time-of-flight Secondary Ion Mass Spectrometry (TOF-SIMS), or related techniques is essential. Experience with electron microscopy and X-ray analyses techniques is also required. Experience with synthesis of nanomaterials is desirable. A Ph.D. in environmental, materials or chemical engineering, chemistry or relevant field is required.

Position 2: Environmental Microbiology
The position involves research on microbial responses to contaminated environments, in the context of bioremediation of petroleum hydrocarbons, as well as in the context of contamination by nanomaterials, pesticides or emerging pollutants. Experience in current techniques for high throughput sequencing for microbial community analyses, identification of active community members and quantification of functional genes in soil and water environments, is required. An excellent grasp of bioinformatics data analysis and visual representation of data is required. Knowledge of analytical techniques for chemical pollutants and nanomaterials is desirable. The candidate should have a Ph.D. in environmental science or engineering with a microbiology background.

Applications should include:
(i) A 1-2 page cover letter (please identify position) detailing the candidate's experience and knowledge relevant to the position, and career goals;
(ii) a detailed curriculum vitae with list of publications, and
(iii) contact information for three references.

Applications should be sent to subhasis.ghoshal@mcgill.ca.

.........contd. /2
About McGill University and Montréal
As Canada’s most research-intensive and international university, McGill consistently ranks amongst the top academic institutions in the world. A beautiful and vibrant metropolis, Montréal (www.mtl.org/en) was recently crowned as among the world’s best cities for students (QS Best Student Cities). For additional information about applying to McGill as a postdoctoral researcher, please see www.mcgill.ca/gps/postdocs

*McGill University is committed to equity in employment and diversity. It welcomes applications from indigenous peoples, visible minorities, ethnic minorities, persons with disabilities, women, persons of minority sexual orientations and gender identities, and others who may contribute to further diversification.*