

Neuroimaging - Postdoctoral fellowship

CHU Sainte-Justine Research Center

Principal Investigator: Gregory A Lodygensky, M.D., Associate Clinical Professor
Department of pediatrics and neuroscience
University of Montréal

Starting date: Immediate

Research project description

A postdoctoral fellowship is currently available at the research center of CHU Sainte-Justine within the framework of the Canadian Neonatal Brain Platform and in close collaboration with Dr. Pierre Bellec from the Department of Computer Science and Operations Research of the University of Montreal. The purpose of this advanced training, which is part of a series of neuroimaging projects on the development of the human brain, will be to study the impact of brain lesions related to preterm birth. This will involve the design and implementation of new analysis methods related to the fcMRI, the DTI and volumetric analysis.

The candidate must:

- Hold a PhD degree in the field of Biomedical Sciences, biomedical engineering, medical physics or equivalent and also have an excellent academic record;
- Be motivated and self-determined to complete this project;
- Have a strong background in human medical imagery analysis, including fcMRI, volumetric, cortical thickness, and analysis in DTI;
- Knowledge of various computer languages including Matlab and coding;
- Demonstrate an interest in behavioural assessments;
- Have good communication and organization skills;
- Bilingualism, flawless writing English required;
- Experience in the field of brain developing will be highly regarded;
- Have publications as first author in scientific journals.

Conditions of internship

Salary amount will range from CAN \$ 32,500 to \$55,000 depending on level of experience. The postdoctoral student must apply for admission at the University of Montreal as a postdoctoral fellow and will comply with all applicable eligibility conditions. Because the recipient is a trainee and not an employee of the CHU Sainte-Justine or Université de Montréal, the recipient is not entitled to employment benefits. Deductions for Canadian income tax will be made from twice monthly stipend, but the stipend is not subject to source deductions for Employment Insurance or Canada Pension Plan. All post-doctoral students at the CHU Sainte-



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Justine receive a stipend from their Principal investigator research funds (according to the minimum amount required at the CHU Sainte-Justine Research Center). The candidate should apply for external scholarship awards. The candidate will also have access to the internal postdoctoral fellowship program of the Sainte-Justine UHC Foundation.

The duration of research development is conditional:

- On the availability of research funds;
- To the project's progress;
- Eligibility of the intern to renew its status as postdoctoral fellow at the university.

How to apply

Interested candidates are invited to submit their application by e-mail to the coordinator of The Canadian Neonatal Brain Platform, Ms. Geneviève Blain, at the following address genevieve.blain@recherche-ste-justine.qc.ca including:

- A full scientific CV outlining their scientific academic background and research experience;
- Cover letter;
- Transcripts ;
- References.

About the Research Center

CHU Sainte-Justine Research Center is a leading mother-child research institution affiliated with Université de Montréal. It brings together more than 200 research investigators, including over 90 clinician-scientists, as well as 360 graduate and postgraduate students focused on finding innovative prevention means, faster and less invasive treatments, as well as personalized approaches to medicine. The Center is part of CHU Sainte-Justine, which is the largest mother-child center in Canada and second most important pediatric center in North America. More on research.chusj.org

