**CHU Sainte-Justine
Research Center**
Mother and Child
University Hospital Center
Université de Montréal

Project title	Clinical and pharmacoepidemiological studies on pediatric asthma
Study level(s)	☐ MSc ☐ PhD ☒ Postdoctorate
Principal investigator(s)	Francine M. Ducharme
Project duration	1-2 years
Start date	As soon as possible

Date of posting: 2023-08-29

Position offered
Subsidized postdoctoral position in clinical epidemiology applied to pediatric asthma.

Presentation of the research laboratory
The clinical laboratories of Dr. Ducharme and Dr. Drouin conduct several clinical and epidemiological studies aimed at improving the management of asthma in children. Their themes include: the identification of early predictors of impaired lung growth; assessing the societal impact (health services and environment) of adopting new asthma therapies province-wide, as well as the impact of the social and economic environment on adherence to treatment. These research programs are based on a clinical database combined with survey data and institutional and governmental administrative databases which provide the opportunity to develop new innovative protocols.

Description of the research project
The objectives of this postdoctoral training are:

- Identify the best parameters to predict the development of airway obstruction and the risk factors associated with it;
- Determine the societal impact of new therapeutic approaches on moderate to severe asthma attacks, the reduction of greenhouse gases and healthcare costs;
- Identify social and economic factors associated with treatment adherence and asthma control;
- Develop skills for writing articles, designing scientific presentations, preparing grant applications.

Profile and training sought
- Hold a completed PhD in biostatistics, epidemiology, or related sciences or an MD with master's degree or PhD with training in biostatistics, epidemiology, machine learning or related sciences.
- Excellent academic record
- Excellent scientific writing skills (manuscripts, protocols, presentations)
- Excellent skills in reviewing and critiquing scientific literature
- Excellent command of English and French, written and oral
- Competence with the management of large administrative databases

• Skills in advanced statistical analysis
• Excellent knowledge of IT and the use of software (Office Suite, SPSS, SAS, etc.)
• Knowledge of "machine learning" (artificial intelligence) – Random forest, CART, is an asset.

Terms

A research grant, reserved for this project, will cover the first 1 to 2 years.

The candidate must register at the Université de Montréal as a postdoctoral fellow and must meet the eligibility requirements of the program. Postdoctoral fellows at the CHUSJ are Scholarship recipient postdoctoral fellows (stagiaires postdoctoraux boursiers "SPB"). They are considered as researchers in training and are not employees of the CHUSJ. They are paid in the form of a scholarship (stipend), not a salary. For this reason, CR-CHUSJ postdoctoral fellows are not eligible for employment insurance, parental insurance, pension plans and other benefits exclusive to employees. Taxes will be deducted at the source.

The CHU Sainte-Justine has a minimum remuneration policy for all its students and postdoctoral fellows. Remuneration may come from the researcher's funds or from an external nominal award. The candidate will be invited to apply for external scholarships to obtain a nominative award.

The duration of the research project is conditional to:
•   The availability of research funds;
•   The progress of the project;
•   The candidate's eligibility to maintain a postdoctoral fellowship status at the university.

Submit your application

Applicants must send the required documents to Dr Francine M. Ducharme and Dr Olivier Drouin by email at francine.m.ducharme@umontreal.ca and o.drouin@UMontreal.ca

Please provide:

√ *Curriculum vitæ*
√ Most recent transcripts
√ Cover letter
√ 2 References on request

Francine M. Ducharme, MD, MSc, FRCP(c), CAHS

Professor, Departments of Pediatrics and of Social and Preventive Medicine
Tel : (514) 345-4931 ext. : 4398
CHU Sainte-Justine, Room 17.B.000
1375 Côte Ste-Catherine
Montréal, Qc, H3T1C5, Canada

Studies at the CHU Sainte-Justine Research Center

Pursue your graduate or postdoctoral studies at the **CHU Sainte-Justine Research Center**, and be one of the 500 students, fellows and interns involved in accelerating the development of knowledge in the field of maternal, child and adolescent health, whether in basic or clinical research. Under the supervision of prominent scientists, especially in leukemia, rare pediatric diseases, genetics, perinatology, obesity, neuropsychology and cognition, scoliosis and rehabilitation, you will have the opportunity to work with multidisciplinary scientific teams and collaborators from all over the world.

About the CHU Sainte-Justine 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 500 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 the second most important pediatric center in North America. More on research.chusj.org