

**New Researcher/Professor Position in Imaging of the Developing Brain at
CHU Sainte-Justine Research Centre and the Department of Psychiatry and Addiction, Faculty of
Medicine, Université de Montréal**

Job description

The CHU Sainte-Justine Research Center (CHUSJRC) and the Department of Psychiatry and Addictology of the Université de Montréal (UdeM) invite applications for a research assistant professor position in neuroimaging of the developing brain for the study of neurodevelopmental, mental health and substances use disorders in children, adolescents and /or emerging adults. Early career candidates are sought; exceptional mid-career candidates will also be considered. Candidates with strong methodological expertise in MRI and multimodal neuroimaging will be prioritized.

CHUSJ is a reference center for the investigation and management of children and teenagers with disorders of neurodevelopment and mental health. The new principal investigator will play a pivotal role in complementing the research strengths of the CHUSJRC in these areas. Our « Brain and Child Development » research axis brings together a critical mass of scientists with cutting-edge expertises in genomics, *in vivo* electrophysiology, cognitive neurosciences, neuropsychology, developmental psychology, artificial intelligence and brain imaging. The successful candidate will have access to a new 3T MRI facility dedicated to research and to large multidimensional datasets generated from various normative and clinical cohorts. The candidate will have the opportunity to establish collaborations not only with CRCHUSJ scientists but also with other research groups within the network of Université de Montréal, the vibrant Montreal neurosciences community, which is one of the largest in North America, and an active network of Canadian pediatric research enters. Montreal is ripe with « joie de vivre », great gastronomic offerings, an energetic and diverse cultural scene, and inviting outdoor activities.

The successful candidate will be expected to:

- Establish and maintain an innovative and productive clinical research program in the field of developmental brain imaging;
- Obtain independent research funding;
- Conduct effective undergraduate and graduate teaching and research supervision;
- Contribute to academic activities at the CHUSJRC and the Department of Psychiatry and Addictology of UdeM.

Requirements

- PhD in neuroscience, psychology, psychiatry or a related field, and relevant post-doctoral training
- Excellent publication track record
- Emerging track record of international and interdisciplinary collaborations
- Expertise with innovative approaches that integrate patient-oriented outcomes with neuroimaging
- Adequate knowledge of French or commitment to achieve French proficiency level within 4 years.

Applications must be submitted electronically to: Janetta Bijl, CHU Ste-Justine Research Center (janetta.bijl.hsj@ssss.gouv.qc.ca).

Those received by February **15, 2023** will be given priority consideration. A complete application will consist of a cover letter, a complete CV, a description of the research plan (3 pages limit) as well as the names and contact information of three referees who would in a position to provide letters of support.

About the Research Environment

Psychiatric disorders are the leading cause of disability in Canada. With their broad network of collaborators, researchers at CHUSJ have established some of the very first cohort studies investigating the genetic and developmental origins of psychiatric disorders, and continue to use some of the most innovative methodologies to study the pathogenesis of these conditions, which are often characterized by high levels of comorbidity and chronicity. Bringing machine learning and novel computational approaches to the study of brain function and structure, this exceptional network of researchers has also developed early intervention strategies targeting genetic and neuro-psychological risk factors before harmful psychiatric conditions develop. These teams have also implemented novel early intervention solutions to modify neurodevelopmental risk trajectories implicated in addiction, behavioral problems, internalizing disorders, epilepsy, and complications related to concussions and premature birth. This outstanding work has been recognized by the awarding of several Canada Research Chairs (CRC) in this area, including a CRC in Preventative Mental Health and Addiction.

About the CHU Sainte-Justine Research Centre

CHUSJ is the largest mother-child university hospital in Canada. With more than 1,200 employees, including more than 200 researchers, the dynamic and cutting edge research performed at the CHUSJRC aims at deciphering the mechanisms underlying disease as well as developing new diagnostic, therapeutic and preventive tools to improve quality of life and care for mothers and children. For more information, please visit us at <http://recherche.chusj.org/en/Home>.

About Université de Montréal

Université de Montréal is one of the leading research universities in Canada. Together with its two affiliated schools, HEC Montréal and Polytechnique Montréal, it constitutes one of the largest centers of higher education in North America. For more information, please visit us at www.umontreal.ca.

About The Faculty of Medicine

An internationally renowned institution, the Faculty of Medicine of UdeM has the threefold mission of education, research and the improvement of health in the areas of clinical sciences, basic sciences and health sciences. It is comprised of 16 departments, two schools and more than 700 professors (excluding clinical professors), serving more than 6000 students. A third of the physicians in Québec and a large number of health professionals in the province were trained at the UdeM's Faculty of Medicine.

*** Language Policy**

UdeM is a Québec university with an international reputation. French is the language of instruction. To renew its teaching faculty, UdeM is intensively recruiting the world's best specialists. In accordance with the institution's language policy, UdeM provides support for newly-recruited faculty to attain proficiency in French

[http://secretariatgeneral.umontreal.ca/fileadmin/user_upload/secretariat/doc_officiels/reglemen

