

Postdoctoral Fellow - Healthy Brains for Healthy Lives

Dr. Julien Doyon (McGill University) and Dr. Julie Carrier (University of Montreal) are seeking to hire a Postdoctoral Fellow who will work on a behavioral, electrophysiologic (sleep electroencephalography – EEG) and neuroimaging project (functional magnetic resonance imaging - fMRI) that is part of the Healthy Brains for Healthy Lives (HBHL) McGill interdisciplinary initiative. The overall goal of the HBHL program is to improve the lives of Canadians by advancing understanding of how the brain functions in health and disease. As part of this initiative, we will conduct a series of studies using behavioral testing, neuroimaging and noninvasive brain stimulation techniques during **either day- or night-time sleep**, to understand the underlying mechanisms of how short-term and long-term memories are formed, and also to develop ways to enhance memories in healthy adults, as well as to remediate memory functions in neurological patients.

We are looking to hire a Postdoctoral Fellow who will be involved in data collection and analyses pertaining to these studies and be actively involved in manuscript writing. The candidate will be responsible for the development and fine-tuning of the experimental design to evaluate the functional consequences of various experimental manipulations based upon observations and collected data during pilot studies. The incumbent will carry out analysis of both behavioral, sleep EEG and neuroimaging data independently with minimal supervision, and will actively participate in the design and execution of further studies towards the set goals. The candidate is expected to provide a substantial contribution at the conceptual level and take the lead in manuscript writing.

The ideal applicant will have a PhD in neuroscience or a related discipline, with experience in conducting behavioral and neuroimaging research using behavioral tasks, sleep EEG and fMRI in humans. We seek a candidate with a proven record of scientific publications in internationally recognized journals.

Knowledge and experience with sleep EEG (data acquisition and analysis) is mandatory for this position; fMRI proficiency is optional, but desirable. However, candidates who, in addition to EEG, have knowledge and experience with fMRI software (e.g. SPM, FSL, etc.), as well as basic proficiency in a programming language such as Matlab, Python, etc. will be given priority.

Strong communication skills are required (fluency in either English or French, preferably both), as well as a good proficiency in scientific writing. In addition to these professional skills and qualifications, the ideal applicant will have personal qualities that will foster a stimulating work environment in the laboratory, such as excellent social skills and work ethic.

To apply for this position, please send a motivation letter, your CV along with a list of 3 individuals who can provide references to Drs. Julien Doyon or Julie Carrier to either of the following email addresses: julien.doyon@mcgill.ca or julie.carrier.1@umontreal.ca.

The applications will be reviewed starting on **November 15, 2019** and will continue until the position is filled. Only the selected candidates will be contacted.