

**Posting
RESEARCH ASSISTANT**

Position Title:	Casual Research Assistant
Hiring Unit:	Epilepsy Group
Supervisor:	Dr. Birgit Frauscher
Work Location:	Montreal Neurological Institute and Hospital
Hours/Week & Schedule:	17 hours / week (flexible and telework negotiable)
Hourly Wage:	\$28.15/hour (salary commensurate with experience)
Planned Start Date & End Date:	May 6, 2020 – August 28, 2020 with possible renewal
Date of Posting: (post for 5 working days minimum)	April 27, 2020
Deadline to Apply:	May 5, 2020

PRIMARY DUTIES

Dr Birgit Frauscher's Lab for Analytical Neurophysiology is seeking to hire a casual research assistant interested in neurophysiological research on mechanisms of sleep and epilepsy (<https://www.mcgill.ca/frauscher-lab/>).

The successful candidate will work to further develop the human sleep intracranial EEG atlas (MNI Open iEEG Atlas; <https://mni-open-ieegatlas.research.mcgill.ca/>) and related projects combining multimodal electrophysiology, neuropsychology, and neuroimaging data from a large-scale international multicenter project supported by NSERC. He/she will be based at the MNI (Montreal, Quebec) and will work in a highly multidisciplinary environment (neurosciences, engineering, epileptology, and neuropsychology).

The candidate will have the opportunity to work in advanced electrophysiology studies in a clinical population (adults with drug-resistant epilepsy) by analyzing multimodal human data (intracranial and scalp EEG, MEG, memory tasks, and anatomical MRI). More specifically, she/he will be responsible for (1) coordinating data collection, data banking and establishing pipelines for data extraction, for (2) data analysis refining and developing software tools, and (3) assisting students of the lab in data analysis for their specific projects.

The successful candidate is expected to be responsible for the technical realization of experiments and analyze data independently with minimal supervision. He/she will analyze and prepare the data in final forms for presentation. He/she will also be required to prepare text and figures for manuscripts. He/she will thus be a contributing author to the resulting publications.

EDUCATION/EXPERIENCE

Master's degree in neuroscience, (bio)medical engineering, or a related discipline with minimum 3 years research experience

OTHER QUALIFYING SKILLS & ABILITIES

- Strong programming skills in Matlab and/or Python is a prerequisite
- Strong signal processing skills of neurophysiology data (EEG, MEG) is mandatory
- Experience with databases required
- Experience with analysis of sleep EEG, intracranial EEG, or epilepsy is expected
- Excellent organizational skills, autonomy and good writing skills
- Excellent communication skills in English

HOW TO APPLY

Please submit your application to: Dr. Birgit Frauscher

Submit a cover letter and CV to birgit.frauscher@mcgill.ca

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.