**Position Title:** Research Associate  
**Hiring Unit:** ACElab, McGill Centre for Integrative Neuroscience (MCIN)  
**Supervisor:** Alan C. Evans  
**Work Location:** Montreal Neurological Institute (MNI)  
**Hours/Week & Schedule:** 35 hours/Week – Monday to Friday  
**Hourly Wage:** $28.44 – $40.20 (salary commensurate with experience)  
**Planned Start Date & End Date:** 02 July 2020 – 01 January 2021  
**Date of Posting:** 17 June 2020  
**Deadline to Apply:** 23 June 2020

### PRIMARY DUTIES

The candidate will work independently on basic research projects in the laboratory of Professor Alan C. Evans (ACElab) at the MNI. His/Her work will be focused on understanding connectivity in the developing human brain using multi-modal imaging including magnetic resonance imaging (MRI), functional MRI and diffusion tensor imaging (DTI). Additionally, he/she will use various connectivity measures to understand the origin and etiology of neurodevelopmental disorders including Autism Spectrum Disorders (ASD). He/she will design the necessary research methodology and computational modelling of the changing brain structure and function in normal development and neurodevelopmental disorders. He/she will work with collaborative teams on the multidisciplinary aspects of the research projects and will further analyze the data, write drafts of manuscripts, and contribute to the writing of grants. The candidate will also participate in the supervision of full-time technician(s) and of graduate and summer trainees, if required.

### EDUCATION/EXPERIENCE

Applicants should have a PhD in Neuroscience or Biomedical Engineering, preferably with a neuroimaging and computational component, relevant postdoctoral and/or minimum of 5 years research experience, and an excellent record of publications in internationally recognized journals. Previous experience of image processing, knowledge of brain development and neurodevelopmental disorders are essential. Applicant should have experience of programming in Matlab, computational modelling and machine learning algorithms. Experience with grant writing and fellowship applications is desirable.

### OTHER QUALIFYING SKILLS & ABILITIES

- Excellent written and verbal communication skills (English essential, French an asset).
- Ability to guide graduate students and summer trainees.
- Ability to work in a multidisciplinary team environment.
- Strong organization skills, attention to detail and priority setting skills.
- Ability to work autonomously in a complex, changing, deadline-oriented environment.
- Intimate familiarity with MINC-tools.
- Advanced knowledge of MRI acquisition and analysis techniques.
- Good knowledge of the neurobiology of development.
- Knowledge of good research/clinical practice.
- A strong neuroimaging publication record.

### HOW TO APPLY

Please submit your CV and a list of references to: reza.adalat@mcgill.ca  
Subject line: “MCIN_ACElab_RA_FT_0804201300”

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*McGill implements an employment equity program and encourages members of designated equity groups to self-identify. All qualified applicants are encouraged to apply; however, in accordance with Canadian immigration requirements, Canadians and permanent residents will be given priority.*