



McConnell Brain Imaging Centre
Montreal Neurological Institute
McGill University
3801 University St.
Montreal QC, Canada H3A 2B4



Job Title:

CBRAIN Software Developer

Job Code:

CFICBSD201703

Application Deadline:

Open

Location:

McGill University - Montreal Neurological Institute,
McGill Centre for Integrative Neuroscience (MCIN), Montréal, Quebec, Canada.

Organization:

MCIN is a multidisciplinary research group which leads numerous scientific collaborations. We provide neuroinformatics software infrastructure, tools and services to a broad, international neuroscientific community, and develop many visualization tools. The MCIN allow a community of scientists around the world to organize and analyze data through collaborative tools and remote computing resources. For more information please visit: <http://mcin.ca>. The code for the CBRAIN platform can be found at <https://github.com/aces/cbrain>.

Job Description:

The MCIN is seeking competent, team-oriented software developers for the CBRAIN platform project. CBRAIN is a generic interface between high-performance computing infrastructure and scientific researchers. The work consists in designing, coding, testing and maintaining new and existing features for CBRAIN and other research platforms. The main areas of development include database driven web services and distributed computing. We encourage any candidates with strong programming skills to apply.

Main responsibilities include (but are not limited to):

- Plan, code, test, debug and support software for neuroinformatics research platforms.
- Implement new features according to functional specifications and user requirements.
- Participate in the design and implementation of information flow, data handling, database storage and data processing.
- Develop and maintain test suites.
- Follow established best practices and work closely with the various development teams.
- Ensure that development documentation is up to date.
- Participate in high-level platform design discussions.
- Report regularly on activities.
- Provide advice and training to junior team members.



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Requirements:

- University degree or related work experience in computer science or related field.
- Minimum 3 years of related research or industry experience. Current students in related fields are encouraged and welcome to apply.
- Strong programming skills and understanding of modern languages.
- Experience with the MVC architecture.
- Good understanding of Unix/Linux operating systems.
- Experience with version control systems (e.g. git) and team-based development methodologies.
- Excellent communication skills and team oriented attitude.
- Examples of web development projects (personal, professional or school).
- Good documentation practices.
- Good organizational skills and ability to learn quickly.

Other Sought after Skills and Qualifications:

- Expertise with web development (Ruby on Rails, JavaScript).
- Experience with relational and non-relational database systems (SQL, noSQL).
- Experience with testing frameworks.
- Experience with high-performance computing and distributed systems (HPC, Hadoop).
- Experience with container technologies (Docker, Singularity).
- Familiarity with academic research environments.
- Fluency in French and English.

Starting hourly rate: \$25 to \$30.

How to apply:

Please send your cover letter and CV to (careers@mcin.ca). Please specify the job title and code (CBRAIN Software Developer, CFICBSD201703) in your email subject line. Must be eligible to work in Canada. Direct hire only. Please, no agencies, no phone, no fax and no other inquiries. McGill University is an equal opportunity employer. These are temporary positions with the possibility of full-time/full-benefits employment, due to start as soon as the qualified candidate is selected. The full-time/full-benefits positions include all the standard benefits that the university offers to the M-term employees. We thank all applicants for their interest and wish to advise that only those selected for an interview will be acknowledged.