



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



Job Title:

Visualization Software Developer

Job Code:

CFICBVI201703

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>. Our Open-Source projects can be found at <https://github.com/aces>. Our visualization tools include BrainBrowser and Display.

Job Description:

The MCIN is seeking competent, team-oriented software developers for a range of platform projects. The work consists of designing, coding, testing and maintaining new and existing features for our research platforms. The main areas of development include 2D and 3D visualization. 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 2D/3D visualization tools.
- 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.
- Strong JavaScript core development skills.
- Experience with WebGL, OpenGL, THREE.js.
- Experience with HTML5.
- Experience with version control systems (e.g. git, svn) and team-based development methodologies.
- Experience with Unix/Linux operating systems.
- Excellent communication skills and team oriented attitude.
- Examples of data visualization projects (personal, professional or school).
- Good documentation practices.
- Good organizational skills and ability to learn quickly.

Other Sought after Skills and Qualifications:

- Experience with JavaScript libraries (e.g. d3.js)
- Experience with C/C++.
- Experience with GLSL.
- 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 (Visualization Software Developer, CFICBVI201703) 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.