The International Laboratory for Brain, Music and Sound Research (BRAMS) is looking for a **full-time research associate (Agent de recherche)** to maintain and develop BRAMS state-of-the-art technological platform.

BRAMS is a unique research laboratory devoted to the study of music cognition with a focus on neuroscience, located in Montreal and affiliated with the University of Montreal and McGill ([www.brams.org/en/](http://www.brams.org/en/)).

The laboratory provides a vibrant research environment, gathering a critical mass of researchers in the Montreal area and several associated members from all over the world. The position involves technical support of BRAMS specialized equipment ([www.brams.org/en/equipment/](http://www.brams.org/en/equipment/)), with a particular focus on the development of motion capture technologies and integration with other systems (EEG, EMG, fNIRS), and IT management (including computer server, and website administration; see below for details). Fluent English and French oral and written communication skills are required given BRAMS international environment.
The position involves the management, the maintenance and the support of 1) BRAMS specialized equipment (MoCap, fNIRS, EEG, audio booths, TMS, hemi-anechoic room, the dome, etc.) as well as related software, 2) computers and server.

An important component of the job will be the development of the motion capture laboratory and its integration with other systems (EEG, EMG, fNIRS, treadmill, etc.), to design new experimental protocols. The tasks of the research associate will include setup, programming, operation, calibration and minor repairs of these devices.

In addition, he/she will help BRAMS researchers and students with their experimental protocols using BRAMS technological platform, as well as play an active role in the design of new experimental protocols, and contribute to the development of the laboratory (e.g. during further construction and expansion of BRAMS technological platform which will take place within the next 2 years).

**Responsibilities**

- Ensure that the computer equipment is well maintained and up-to-date. Also responsible for the setup and running of the laboratory computer server and network. Ensure the security of data stored on the laboratory server.

- Ensure the maintenance and adequate operation of the research equipment. Perform the setup, calibration and minor repairs of the equipment, as well as operate it when necessary. Assign major repairs to specialized workshops, perform the necessary follow-ups and verify the quality of the work performed.

- Ensure the management of motion capture systems (static and mobile) and their integration with other systems (EEG, EMG, etc.), especially in order to develop new protocols in line with the needs of researchers and of the future development of the laboratory.

- Meet with the researchers, postdocs and students about of the projects and experiments they want to conduct in the laboratory. Advise on the choice of the most suitable equipment and take the necessary measures to ensure the appropriate technical implementation of these projects.

- Assume an active role in the technical aspects of the projects or experiments, particularly in their early stages.

- Update the Laboratory web site (implementation of the new WordPress versions, programming, and site administration)

- Take responsibility for maintaining the equipment inventory and managing the equipment loan system. Organize a storage system and material classification.

- Organize and update, as needed, the technical documentation and manuals of operation of the various pieces of equipment.

- French and English are essential for the job, as they are both needed for communications with local, national and international suppliers, University administration and BRAMS members, students and trainees.