



## **MEDICAL PHYSICIST – Medical Imaging**

### **Description of the organization**

The McGill University Health Centre (MUHC) is an integrated university hospital, internationally recognized for its excellence in clinical programs, research and teaching. The MUHC's goal is to provide patients with the most advanced knowledge-based care in the health field and to contribute to the advancement of knowledge.

### **The organization's website**

[www.cusm.ca](http://www.cusm.ca)

### **Job description**

Under the direction of the department head and the associate director of the Directorate of Professional Services, the medical physicist provides teaching, in magnetic resonance

80% Clinical Service in the Department of Medical Imaging in Magnetic Resonance

10% Research and development

10% Teaching

### **JOB REQUIREMENTS**

Academic knowledge:

- M.Sc. in Medical Physics or recognized equivalence

Practical knowledge:

- Minimum of 5 to 10 years of experience, including specific evidence of expertise as following:
  - Prior experience in supporting an MRI company in a health care system
  - academic and/or engineering experience in the development of MRI products.
  - The first published author demonstrated his expertise in impulse programming.
  - Demonstrated evidence of an in-depth knowledge of acceleration methods, including compressed sense, radial acquisitions and artifact reduction, reconstruction including CNN's implementations

- Quantitative MRI including accelerated T1/T2 mapping
- Methods and applications for streamlining scanning time and throughput, including optimized flow methods such as CAP-DOT, multibobin scanning, automated IHM implementations
- Control of the scanner and expertise in the independent operation of the scanner, including the configuration of the protocol
- Automated console-based workflow solutions, including multi-FOV scanning, recording and assembling multi-FOV images, imaging improved and independent dynamics, triggered by bolus or free breathing
- Advanced applications, including magnetic resonance imaging of breast and prostate cancer (fMRI, MRI, IRT), heart, liver and abdomen, and imaging-guided procedures

**Other knowledge:**

- French and English, spoken and written
- Digital skill
- Good communication and human relations skills
- Strong leadership and work organization skills
- Strong analytical and problem-solving skills
- Ability to work independently

**Employment Equality Program**

The MUHC has an equal employment access program and invites women, Aboriginal people, visible minorities, ethnic minorities and people with disabilities to apply. Accommodation may be available to people with disabilities who request them based on their needs

Status: Permanent, full time

Maximum salary: \$121,996.00CAD/year

Minimum salary: \$88,100.00CAD/year

City / Province / Country: Montreal, Quebec, CA

**Please submit your candidacy to:** [anna.christopoulos@muhc.mcgill.ca](mailto:anna.christopoulos@muhc.mcgill.ca)