



Western



## Postdoctoral Associate

A postdoctoral position under the supervision of Dr. Corey Baron is immediately available in the Robarts Research Institute, Schulich School of Medicine & Dentistry at Western University (1 year, renewable). The successful candidate will develop quantitative Magnetic Resonance Imaging (MRI) techniques at ultra high field (7 Tesla) for neurological applications. Potential projects include diffusion MRI pulse sequence design and model-based reconstruction, advanced diffusion MRI methods like kurtosis or OGSE, or non-Cartesian trajectory design. The listed potential projects are not exhaustive and the choice of specific research directions will be flexible, with a focus on development of the candidate's skills and experience to achieve career goals. There will be numerous opportunities for collaborations with faculty and physicians in Neuroscience, Psychiatry, Biomedical Engineering, and other departments at Western.

The successful candidate will be nominated to apply for a **BrainsCan postdoctoral fellowship** ([link](#)) with an annual salary of \$55K to \$75K and a research/travel allowance of \$3K to \$5K (CAD).

### Qualifications

- PhD in Medical Biophysics, Biomedical Engineering, Physics, or related discipline
- Experience in MRI pulse sequence programming (experience in IDEA is an asset)
- Excellent knowledge of MRI physics
- Experience in MRI image reconstruction
- Ability to solve problems independently
- Demonstrated written and oral communication skills

### Facilities

The successful candidate will be situated within the Centre for Functional and Metabolic Mapping (CFMM, <http://cfmm.robarts.ca>) at Western's Robarts Research Institute. The CFMM houses Canada's only ultra-high field in vivo MRI system (7T Siemens Magnetom) and a high field (3T Siemens Prisma) and ultra high field small animal (9.4T Agilent) MR system. The position will also provide excellent opportunities to collaborate with Lawson Health Research Institute and the Brain and Mind Institute.

### Application Instructions

Applicants should send a cover letter outlining their research experience and interests, a Curriculum Vitae, and contact information for three references to:

Corey Baron, PhD  
Assistant Professor, Medical Biophysics  
Robarts Research Institute – London ON, Canada  
[cbaron@robarts.ca](mailto:cbaron@robarts.ca)