**Post-Doctoral Scholar Position**

A one year post-doctoral scholar position is available immediately under the supervision of Dr. Robert Bartha at the Centre for Functional and Metabolic Mapping, at the Robarts Research Institute, Schulich School of Medicine & Dentistry, Western University. The CFMM houses a unique collection of high-field and ultra-high field magnetic resonance imaging and spectroscopy systems including a 7T human MRI scanner. Trainees are integrated with a dozen senior personnel. This collegial and dynamic environment is an epi-centre for cross-disciplinary research collaboration utilizing advanced image processing, visualization and quantification techniques.

The successful candidate will be primarily responsible for facilitating research studies and projects involving diffusion tensor imaging (DTI) functional MRI, MRS of the brain in patients with memory loss and Alzheimer’s disease. A strong emphasis is on the analysis and management of existing data, evaluation of data reproducibility metrics, and evaluation of inter-site consistency. The candidate will assume responsibility for the preparation and publication of manuscripts as well as the development and submission of research grant applications. The candidate will be supported by a fellowship from the Ontario Neurodegenerative Research Initiative and a research grant from the Alzheimer Foundation of London and Middlesex.

The successful candidate will possess:

* A Ph.D. degree in medical biophysics, computer science, or neuroscience with a strong background in advanced image processing techniques focused on diffusion tensor imaging methods
* Previous research experience within a team environment;
* Previous experience working and analyzing large multi-site datasets;
* A strong understanding of clinical research design, research methodology and data analysis;
* Advanced statistical training and knowledge of statistical software packages;
* Evidence of experience in preparation and publication of manuscripts;
* Excellent oral communication and technical writing skills;
* Excellent computer skills (Microsoft Office, Reference Manager, EndNote, SPSS, Brain Voyageur, MatLab);
* Ability to take guided initiative and to work in an organized fashion within a fast‐paced research environment, including flexibility in shifting between independent and collaborative work;
* Demonstrated collegiality, professionalism and interpersonal skills.

Rate of Pay: Commensurate with experience.

Applications will be reviewed as received until the position is filled. Please send a letter of application including a one-page description of research experience and interests, an updated curriculum vitae, and names & contact information of three referees to: [rbartha@robarts.ca](mailto:neil.duggal@lhsc.on.ca)