



Post Doctoral Fellow Position: Brain Imaging.

Imaging Research Laboratories
Robarts Research Institute,
Schulich School of Medicine and Dentistry,
University of Western Ontario,
London, ON Canada.

MR imaging for Epilepsy.

This project seeks to develop a multi-spectral imaging approach to assist in the diagnosis and localization of Epileptogenic foci in the brain, based on relaxation mapping, Diffusion Tensor imaging, and morphometric analysis, combined with 3D digital histology of resected tissue samples. The incumbent will be expected to provide oversight to this project, as well as becoming involved in the image acquisition and data analysis aspects of the research. Ideally the successful applicant will have received PhD training in some aspect of Neuro imaging, and will have a strong grasp of typical pulse sequences used in imaging the brain, as well as the techniques used to analyze brain images. Familiarity with packages such as SPM would be an asset, as would expertise in the use of C++, VTK, ITK.

The Robarts Imaging Laboratories are adjacent and connected to University Hospital, part of the London Health Sciences Centre, occupying approximately 30,000 square feet of space and contain all the necessary equipment to carry out this work. Within the laboratories there is access to: a GE 3T MR-750 imager, a Siemens Tim Trio 3T MRI, a 7T Siemens/Varian head imager and a 9.4 T animal scanner. The graduate medical imaging research program in London is one of the largest in North America with a personnel complement of over 250, (>200 at Robarts) including ~100 graduate students.

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