



## Postdoctoral Fellowship in Neuroimaging and Cognition in Epilepsy

The **WiNTER (Winston Neuroimaging and Translational Epilepsy Research) lab** at Queen's University is recruiting a post-doctoral researcher to lead neuroimaging studies on cognitive dysfunction in people with epilepsy and their correlation with impairments detected with conventional and robotic-assisted neuropsychological assessment.

The lab was founded to improve the understanding of the comorbidities of epilepsy and the diagnosis and surgical treatment of people with epilepsy primarily through neuroimaging techniques and translation into clinical practice. This has developed into employing more multimodal approaches, including robotic technology, neuropsychology, EEG and machine learning. There will be an opportunity to contribute to other ongoing projects, including the use of multimodal neuroimaging in the planning of epilepsy surgery and predicting the risk of recurrence after first seizure using multimodal data and machine learning.

The lab is based in the Centre for Neuroscience Studies at Queen's University, Kingston, Canada and we have active collaborations with the School of Computing here and other universities within Canada and internationally. Queen's University offers an advantageous benefits plan to all employees and the lab has an open and collaborative approach. We work closely with the co-located District Epilepsy Centre at Kingston Health Sciences Centre that serves patients across South-Eastern Ontario to translate research advances into clinical benefit.

Experience with a variety of neuroimaging toolkits (e.g. SPM, FSL, FreeSurfer, MRtrix, 3D Slicer), programming in Python and knowledge or experience of machine learning are all assets. You will also have opportunities to supervise and train graduate students working on neuroimaging projects. The position is initially supported by the PSI Foundation and is available immediately for 2 years with potential for renewal.

Application is via an up-to-date CV, a summary of previous research work and the names of three references. Informal enquiries welcome.

For further details:

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