

Postdoctoral Associate – Ultra-high field fMRI & sensory perception

The Neuroplasticity in Sensory Systems Lab (NiSSL.ca) at Western University is seeking an ambitious postdoctoral associate interested in the study of sensory perception in a feline model of profound hearing loss. The successful candidate will work collaboratively with researchers including the [BrainsCAN Computational Core](#) to develop pipelines for layer-wise analyses of neuroimaging data acquired on the research-dedicated Siemens 7T scanner housed at the [Centre for Functional and Metabolic Mapping](#). They will also be encouraged to develop independent projects that build upon the laboratory's ongoing work (this may include animal or human neuroimaging).

Our lab is in the [Department of Psychology](#) and the [Brain and Mind Institute](#), and is part of highly-productive and interdisciplinary group of researchers spanning a wide breadth of topics in cognitive neuroscience. We strongly value the principles of open science, and collaboration across labs and departments is highly encouraged; the successful candidate will have the opportunity to work with established collaborators, and to form new partnerships. Our program of research is focussed on structural and functional markers of brain reorganization following hearing loss, and the implications for restoration. We take an integrative approach that includes psychophysics, imaging, histology, electrophysiology, and optical techniques to characterize these changes. Opportunities exist to integrate across these approaches.

The successful candidate will have a PhD in neuroscience, psychology, physiology, computer science, or a related discipline, with a strong record of publication and evidence of the ability to conduct independent research. Quantitative and programming skills in MATLAB, Python, or similar are expected; preference will be given to candidates with experience analyzing ultra-high field MRI data. The successful candidate will work collaboratively with animal care staff, and will be expected to complete training in and participate actively in animal handling as required for data collection. That said, previous experience with animal work is not mandatory.

Western University and the NiSSLab constitute communities that respect, accept, nurture and celebrate the diversity of their members. Our community is one where all members feel valued, respected and included. We strive to ensure our workplace is fully accessible and respectful for people's different needs and abilities. We support a healthy work-life balance and commit to the right of every member of the community to study, work and conduct his or her activities in an environment free of harassment and discrimination. Each member of our community is accountable for ensuring and supporting positive diversity practices.

Funding is available for two years, with contract renewal for the second year dependent upon satisfactory performance. Renewal beyond year two is possible, but is contingent on funding. Applications will be accepted until January 8th or until the position is filled. Interested parties should contact Dr. Blake Butler (bbutler9@uwo.ca) and provide the following:

1. A cover letter describing your current research, and interest in our lab
2. Curriculum Vitae
3. Names and contact information for 3 references