



ALS Neuroimaging Research Unit

Postdoctoral Position in Magnetic Resonance Imaging

Postdoctoral positions are available in the ALS Neuroimaging Research Unit at the University of Alberta. The mission of the lab is to further our understanding of the biology of amyotrophic lateral sclerosis (ALS) using advanced MRI methods.

Areas of investigation include 1) Modeling of multimodal MRI data to quantify and characterize cerebral degeneration, 2) Development of novel image analysis methods as potential biomarkers, and 3) Ex-vivo validation of MRI metrics.

Qualifications:

- A PhD or equivalent in a relevant discipline such as computer science, biomedical or electrical engineering, medical physics, or neuroscience
- Experience with image analysis methods and tools (MATLAB, Unix, FSL, etc)
- Familiarity with DTI, structural and functional connectivity, magnetic resonance spectroscopy, cortical thickness estimation, or ex-vivo imaging is an asset
- Highly motivated and able to work collaboratively in a multidisciplinary environment
- Good written and verbal communication skills in English

Primary responsibilities include data analysis and manuscript preparation. The start date is flexible, with a competitive salary that includes benefits.

The lab is directed by Dr. Sanjay Kalra, a neurologist and researcher, and the director of the Canadian ALS Neuroimaging Consortium (CALSNIC). CALSNIC is a multicenter platform collecting harmonized MRI, clinical, and behavioral data that provides the infrastructure for clinical, imaging, and translational research in ALS on an international scale. Funding is in place from CIHR, ALS Canada, and Brain Canada.

Interested individuals should forward a CV and list of references with their email addresses to:

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