

Postdoctoral Fellowship in Deep Learning

Department: School of Physiotherapy

Principal Investigator: Shaun Boe, Laboratory for Brain Recovery and Function (boelab.com)

Location: **Remote**

Description:

This position (up to 2 years as part of an academic-industry partnership) involves developing machine learning methods for analyzing data related to post-stroke motor recovery, and is co-lead by Dr. Shaun Boe and Axem Neurotechnology (axemneuro.com).

The successful applicant will be expected to independently develop machine learning pipelines utilizing various methods (especially deep learning methods) in TensorFlow, dynamically communicate with a small interdisciplinary team, and write brief reports (as well as peer-reviewed abstracts and papers, as appropriate) describing the details and performance of all pipelines developed and tested.

Requirements for this role:

- Completed PhD
- Strong background in deep learning
- Minimum 1 year experience with TensorFlow

Assets for this role:

- Strong communication skills
- Experience working with industry on machine learning applications
- Experience working with statistical models (in particular generative and ordinal models)
- Experience with neuroimaging data (both functional and structural)
- Evidence of expertise in development and/or application of machine learning techniques (e.g., peer-reviewed publications)

Noteworthy aspects of this role:

- Allows for exclusively remote work
- No lab administration burden
- No requirement to mentor/train students
- Enables both industry and academic (i.e., publishing) experience



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Schedule: Part-time to Full-time (depending on the level of experience of the candidate)

Salary Range/ Pay Rate = Starting at \$40,000 per annum plus benefits
(<https://www.dal.ca/dept/hr/Total-Compensation/Benefits/Post-DoctoralFellows.html>)

Term of appointment = Up to 2 years

Start Date = Flexible

This Postdoctoral Fellowship is made possible thanks in part to funding from Mitacs.

If interested, forward your CV, cover letter, and contact information for three references to:
Chris Friesen (chris@axemneuro.com), Chief Technology Officer at Axem Neurotechnology.