

## Post Doctoral Research Fellow – The Hospital for Sick Children

**Job ID:** 13321

**Date Posted:** 2021-03-05

**Deadline to Apply:** Until filled

**Target Openings:** 1

### **Post-doctoral Research Fellow position in clinical neurophysiology Neurological Outcome of Glycemia in Neonatal Encephalopathy**

The Neurosciences & Mental Health Program at the Hospital for Sick Children Research Institute is seeking an enthusiastic postdoc researcher to work in close collaboration with neurologists, neurophysiologists, and neuroradiologists in analysing pre-existing continuous glucose, EEG, and clinical data.

With the direction of principal supervisors Drs. Emily Tam and Cecil Hahn, you will work closely with affiliated staff and students who form a group that use neuroimaging and neurophysiology to study newborn brain disorders.

Despite therapeutic hypothermia for hypoxic-ischemic encephalopathy (HIE), rates of death and major disability continue to be high. Using continuous glucose monitoring, we have found that hyperglycemia occurs in more than 50% of HIE, associated with brain injury and possibly long-term outcomes. This study uses continuous glucose data paired with continuous electroencephalography (cEEG) and detailed clinical data to determine the temporal relationships between abnormal glycemia and brain function.

This is part of an ongoing project that is funded by the Canadian Institutes of Health Research (CIHR) and the National Institutes of Health (NIH).

A substantial amount of data already exists for this project and the motivated researcher will be able to jump straight into analysis.

### **Requirements**

- PhD in a relevant area (engineering or computer sciences) required.
- Must have experience with EEG analyses
- Well developed skills in data science is required.
- Computer programming (Matlab, Python, or R) and/or signal processing/time series analyses.
- Proven experience in research commensurate with your level of experience post-PhD.
- Experience in analysis of neurophysiological data is preferred.
- Experience in clinical research would be an asset.
- Excellent communication skills (oral and written).
- Be able to work independently and meet deadlines.

### **We offer**

- Initial contract will be for a period of 1 year, with the possibility of extension for a second year.
- We offer a competitive salary based on qualifications and experience.

- In addition, we offer an attractive benefits package, that includes extended health and dental coverage.
- Toronto is a world-class rated in the top ten cities worldwide for livability that has a large and rich neuroscience community.
- The Research Institute offers many opportunities for career development and additional training as part of the Research Training Centre.

**Additional information**

Contact Dr. Emily Tam via [emily.tam@sickkids.ca](mailto:emily.tam@sickkids.ca) for more information.

If you wish to apply directly, please send a CV, a cover letter with research statement/interests, and the names of two references.

**To view the full detail of the job posting and apply, please visit:**

[https://career.sickkids.ca:8001/psc/CRPRD/CAREER/HRMS/c/HRS\\_HRAM\\_FL.HRS\\_CG\\_SEARCH\\_FL.GBL?Page=HRS\\_APP\\_JBPST\\_FL&Action=U&FOCUS=Applicant&SiteId=1&JobOpeningId=13321&PostingSeq=1](https://career.sickkids.ca:8001/psc/CRPRD/CAREER/HRMS/c/HRS_HRAM_FL.HRS_CG_SEARCH_FL.GBL?Page=HRS_APP_JBPST_FL&Action=U&FOCUS=Applicant&SiteId=1&JobOpeningId=13321&PostingSeq=1)