

Understanding the fundamental biology underlying neurodevelopmental disorders (autism, attention deficit/hyperactivity disorder, obsessive compulsive disorder, etc.) can be greatly aided by integrating brain imaging studies, genetics, and behaviour. Incorporating cross-species data can furthermore allow us to infer molecular signatures in ways difficult to do with human data alone. We have, within the Province of Ontario Neurodevelopmental Disorders Network (POND), developed a unique resource of human and mouse data. We are thus seeking a research associate, with experience in complex analytics and an interest in neurodevelopmental disorders, to derive new insights from this (and other) data. The work will be carried out at the Hospital for Sick Children (SickKids) in Toronto in close association with the Wellcome Centre for Integrative Neuroimaging at the University of Oxford. The group with whom the candidate will work includes ~40 people from a broad range of backgrounds including neuroscience, neurology, psychiatry, psychology, engineering, computer science, physics, chemistry and biology. SickKids is affiliated with the University of Toronto and is Canada's most research-intensive hospital. It is located in the heart of the "Discovery District" in downtown Toronto.

#### **Here's What You'll Get To Do**

- Derive new insights into neurodevelopmental disorders by interrogating a rich mouse and human dataset.
- Work with multiple collaborators to grow our mouse and human data.
- Work with, and possibly implement, novel statistical and machine learning algorithms.
- Disseminate research and clinical findings through publications, presentations, and seminars.

#### **Here's What You'll Need**

- Strong Unix/Linux background.
- Interest in neurodevelopmental disorders.
- Strong neuroscience background.
- In-depth knowledge of at least two scripting languages (R, python, perl, etc.)
- Knowledge of statistics and machine learning pipelines.
- Experience with brain imaging data analysis a bonus.
- Motivation and the ability to work independently.
- Strong communications skills.

Job Opening ID: 18448

Posting Title: Research Associate-RI

To view this Job Opening, visit:

[https://hcmprd.sickkids.ca:8001/psp/HCMPRD/EMPLOYEE/HRMS/c/HRS\\_HRPM.HRS\\_JOB\\_OPENING.GBL?Action=U&HRS\\_JOB\\_OPENING\\_ID=18448](https://hcmprd.sickkids.ca:8001/psp/HCMPRD/EMPLOYEE/HRMS/c/HRS_HRPM.HRS_JOB_OPENING.GBL?Action=U&HRS_JOB_OPENING_ID=18448)