

Understanding the fundamental biology underlying neurodevelopmental disorders (autism, attention deficit/hyperactivity disorder, obsessive compulsive disorder, etc.) can be greatly aided through brain imaging studies. It is imperative to use and develop state of the art algorithms to gain maximum information from those images. We are seeking a computer scientist or engineer to improve our image processing and analysis algorithms and to process large quantities of data being acquired through the Province of Ontario Neurodevelopmental Disorders program. 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

- Develop and work with advanced image processing algorithms.
- Process and analyze large quantities of brain imaging data related to neurodevelopmental disorders and brain development.
- Assist with the implementation of 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.
- In-depth knowledge of at least two scripting languages (python, perl, etc.)
- Knowledge of image processing pipelines.
- Experience with brain imaging data analysis a bonus.
- Ability to program in C/C++ a bonus.
- Motivation and the ability to work independently.
- Strong communications skills.

Job Opening ID: 18451

Posting Title: Programmer/Analyst

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