Postdoctoral Fellow (Bioinformatics/Deep Learning)

We are seeking applications from motivated candidates to join our team at the Montreal Heart Institute (MHI) research center affiliated to Université de Montréal, led by Julie Hussin. The successful postdoctoral fellow will carry out research in a highly collaborative environment, developing and applying deep learning methods to combine different types of biomedical data in the context of personalized medicine of cardiovascular disease. The research will be done in collaboration with Yoshua Bengio at the Montreal Institute of Learning Algorithms (MILA) and Simon Gravel at the McGill University and Genome Quebec Innovation Center (MUGQIC) and is funded by IVADO (https://ivado.ca).

Ongoing projects

1) Prediction of relevant medical phenotypes in population and clinical samples taking into account population heterogeneity
2) Integration strategies for large heterogeneous datasets to allow the efficient use of multi-omic data in biomedicine

Responsibilities

- Take a lead role in the development of novel deep learning strategies for personalized medicine
- Mentor students in their projects and liaise with project collaborators.
- Although funds are available to support a postdoctoral fellow, the successful candidate is expected to apply for institutional/provincial/national funding.

Qualifications

- Candidates should have a PhD (or be very close to completion) in bioinformatics, computer science, statistics or a related field.
- Inquisitive proactive attitude to research, independent learner, strong work ethic, ability to work independently and collaboratively
- Familiarity with Linux/Unix based high performance computing clusters and programming skills (Python, R, C/C++, Java) is highly desirable
- Experience in analyses of large 'omic' datasets is a plus
- Experience in machine learning/deep learning is a plus
- The appointment must start within 3 years of being awarded a PhD.

How to Apply

To apply, please send your CV and a cover letter outlining your previous research, career goals, and how they integrate with the group's research interests (max 1 page). Please provide contact information for three references and a proposed start date. Informal enquires and electronic applications (pdf files only) must be sent to: julie.hussin@mhi-omics.org

Additional Information

For more information about Julie Hussin's group at MHI, please visit https://mhi-omics.org
For more information about the MILA, please visit https://mila.quebec/en/
For more information about IVADO, please visit https://ivado.ca/en/