Job Description

The Cardiovascular Epigenetics Laboratory at the Montreal Heart Institute is recruiting a talented and motivated Postdoctoral Fellow/Research Assistant in computational biology or data analytics who is interested in studying the role of the non-coding genome in the regulation of cardiac development and disease. This study aims to unravel the impact of non-coding DNA variants and non-coding RNAs on transcriptional regulation in heart disease (Circulation Research 127 (6), 761-777; Circulation 142 (9), 910-912).

Job Responsibilities

- Work with a team of experimental scientists to generate and analyze NGS data
- Develop algorithms or bioinformatics pipelines for multi-omics data integration
- Supervise and train undergraduate students
- Participate in writing research proposals and articles

Job Requirements:

- A recent PhD/MSc graduate (or 1-2 years postdoc experience) in computer science, computational biology, bioinformatics, or data analytics
- Strong programming skills in R and/or Python
- Experience with analysis of next-generation-sequencing data such as RNA-seq, ChIP-seq, ATAC-seq, Hi-ChIP and GWAS datasets
- Demonstrate a keen interest in machine learning and integrative multi-omics analysis
- Track record of peer-reviewed publications in relevant disciplines will be advantageous
- Ability to write and contribute to research articles
- Excellent interpersonal, written and oral communication skills
- Ability to work independently
- Able to work and collaborate well with experimental biologists and clinicians.