Postdoctoral Research Fellow (PDF) position in gene regulation

Position Summary
A postdoctoral research fellow position to study gene regulation is available in the de Boer lab (https://deboer.bme.ubc.ca/) in the School of Biomedical Engineering (SBME) at the University of British Columbia (UBC) in Vancouver, BC, Canada.

The goal of this project is to learn how regulatory DNA sequences encode for gene expression. We will make use of genomics data from high-throughput reporter assays and other sources to learn computational models of gene regulation, which can then be applied to predict enhancer and promoter function, and the effects of regulatory genetic variation.

The Faculties of Medicine and Applied Science have partnered to create the SBME, a new flagship entity at UBC, and a top strategic priority for the University and both Faculties. The SBME is a nucleus for education and training, research, and innovation in biomedical engineering, creating new knowledge, new academic and training programs, and fostering translation and innovation. UBC SBME students will distinguish themselves by a deep education in biology, deconstructed using engineering science and design, and applied to the solution of real-world biomedical challenges. Our SBME faculty conduct research that advances our fundamental understanding of human biology, and yields technologies and therapies that advance our health and wellbeing.

Qualifications
Candidates with experience in both computational and experimental techniques are preferred, but strong candidates in either area will also be considered.

- Competitive candidates must hold a PhD, MD, or equivalent degree by the time of their appointment. Preference will be given to candidates that recently (<24 months) obtained their PhD.
- Candidates should have a strong research background, as demonstrated by past publications, accomplishments, and references.
- The successful candidate will be a passionate, self-driven, independent thinker with excellent organizational, oral and written communication, excellent interpersonal skills, and a strong work ethic.
- Important experimental skills: next-generation sequencing, genome editing, high-throughput reporter assays, transcriptomic, ChIP-seq, library cloning, cell culture, lentivirus, and transfection.
- Important computational skills: python, Tensorflow, deep learning, statistics, linux, R, algorithm development, machine learning/AI, cloud computing.
- While this position is grant-funded, the successful applicant will be expected to apply for external fellowship funding.

Start date, stipend, and location
The start date is immediate but flexible; funding has already been received and salary will be commensurate with qualifications and experience.
The position is full-time for one year with the possibility of extension. The funding package consists of a stipend and benefits.

**How to Apply**
Candidates should provide a CV, contact information of 3 references, and a cover letter describing past achievements and future research interests. Candidates with computational experience should also include a sample of code they have written (e.g. a link to their GitHub page). In addition to applying through the UBC Faculty Careers website (http://www.hr.ubc.ca/careers/faculty-careers/), (Job Opening ID: 36788), applications can also be emailed to Dr. Carl de Boer (carl.deboer@ubc.ca).

Please indicate on your cover letter how you became aware of the position.

Equity and diversity are essential to academic excellence. An open and diverse community fosters the inclusion of voices that have been underrepresented or discouraged. We encourage applications from members of groups that have been marginalized on any grounds enumerated under the B.C. Human Rights Code, including sex, sexual orientation, gender identity or expression, racialization, disability, political belief, religion, marital or family status, age, and/or status as a First Nation, Metis, Inuit, or Indigenous person.

All qualified candidates are encouraged to apply; however Canadians and permanent residents will be given priority.