Research Associate position in gene regulation

Position Summary
A Research Associate position for developing molecular tools and techniques in 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 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.

Organizational Status
This position will play a leadership role in the de Boer lab, and will be reporting directly to Dr. Carl de Boer, who is the Principal Investigator of the laboratory.

Responsibilities
An end goal of our research is to understand how DNA sequences encode gene regulatory programs. For instance, distal enhancers regulate the expression of nearby genes by virtue of the sequence of their DNA, which is read out by proteins termed transcription factors. Much of our experimental work aims to create ideal datasets for learning how to go from DNA sequence to gene regulation. This position will involve genomics technology development. Specific tasks may include:
- Developing high-throughput reporter assays;
- Developing genetic/epigenetic CRISPR/Cas9 screens;
- Designing and implementing new research projects;
- Experimental validation of predictions;
- Assisting with grant applications and drafting publications; &
- Training and mentoring lab personnel.

Qualifications
- Candidates must hold a PhD, MD, or equivalent degree in a related field or other equivalent qualifications or work experience in their field of research.
- 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.
• Key experimental skills: high-throughput sequencing, genome editing, high-throughput reporter assays, transcriptomics, protocol optimization, ChIP-seq, library cloning, cell culture, lentivirus, and transfection.

**Supervision received**
The incumbent will receive supervision directly from Dr. Carl de Boer, as needed.

**Supervision given**
The incumbent will not be required to supervise anyone involved in the research program. If opportunity arises to supervise research trainees, such opportunities will be discussed case by case.

**Start date and stipend**
The start date is immediate, but flexible. One-year term with possibility of extension. Continued extension is dependent on securing additional research funds and work performance. Salary will be commensurate with qualifications and experience.

**How to Apply**
Candidates should provide a CV, contact information of 3 references, and a cover letter describing past achievements and future research interests. Applications should be submitted online at [http://www.hr.ubc.ca/careers-postings/faculty.php](http://www.hr.ubc.ca/careers-postings/faculty.php) (Job ID: 36824) or emailed to Dr. Carl de Boer ([carl.deboer@ubc.ca](mailto:carl.deboer@ubc.ca)). Please indicate on your cover letter how you became aware of the position. Review of applications will begin on March 10th, 2020 and continue until the position is filled.

We thank all interested applicants for their interest, however, only those applicants short-listed will be contacted for an interview.

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.