

# Research Associate (Vancouver)

**Position Title:** Research Associate

**Location:** Biomedical Research Centre, University of British Columbia, Vancouver Canada

**Position Description:** The UBC School of Biomedical Engineering, Faculty of Medicine, invites applications for a Research Associate to join an interdisciplinary translational research program in stem cell bioengineering. The Research Associate will work directly under supervision of Dr. Peter Zandstra at the Biomedical Research Centre.

**Duration:** The position will begin ASAP. This is a two-year term appointment, thereafter subject to renewal annually based on performance.

**Closing date for applications:** May 14<sup>th</sup>, 2018.

The successful candidate will have a PhD with at least 5 years of postdoctoral research experience in theoretical and computational biology.

The successful candidate should be highly self-motivated and demonstrate the ability to work independently, supervise graduate and undergraduate students, as well as to work in a team environment. Strong management/mentoring skills are required, and working experience in industry and/or academic-industry collaboration is desirable. The successful candidate must have a strong research publication record and proven track record of collaborative research, and broad expertise in biological physics and complex regulatory networks. Experience in bioinformatics and machine learning is an asset. The ideal candidate will possess:

1. Research experience in theory of complex regulatory networks and modeling of morphogen driven signaling networks;
2. Research experience in tissue patterning, mechanisms of growth control and self-organization;
3. Experience in non-linear dynamics and criticality in biological systems;
4. Experience in modeling and quantification of morphogen dynamic properties (e.g. FRAP);
5. Excellent verbal and written communication and interpersonal skills; &
6. Capacity to develop projects in both academia and industry.

Specific responsibilities will include:

- A) Leading computational and theoretical aspects in Dr. Zandstra's lab;
- B) Developing and undertaking research projects in the following areas (or as otherwise agreed with Dr. Zandstra):
  - a. Evolutionary dynamics of complex gene regulatory networks; &
  - b. Self-organization in stem cell colonies.
- C) Assisting Dr. Zandstra in securing new funding for the research group, including from federal, provincial, and industrial partners;
- D) Assisting Dr. Zandstra (in coordination with other Zandstra group members) in writing manuscripts, reports, and communications related to the projects;
- E) Assisting Dr. Zandstra in coaching the junior laboratory staff in theoretical and computational tools as required; &
- F) Representing Dr. Zandstra's lab at initiatives in both academia and industry in the modeling area.

Salary will be at minimum \$55, 258 per annum, and will be commensurate with qualifications and experience.

Applicants should submit a cover letter outlining relevant expertise and experience, a detailed curriculum vitae, and names and contact information of three referees via [www.facultycareers.ubc.ca/29356](http://www.facultycareers.ubc.ca/29356)

For further information please contact the Zandstra Lab via email at [admin@stemcellbioengineering.ca](mailto:admin@stemcellbioengineering.ca), or see our website <http://stemcell.ibme.utoronto.ca/>.

Please note that only applicants selected for interview will be contacted.

*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.*