Postdoctoral Fellow: Synthetic Biology and Human Health

The Pardee Lab (www.pardeelab.org) at the University of Toronto is seeking a postdoctoral fellow with research experience with molecular biology, biochemistry and microbiology. Our lab specializes in cell-free synthetic biology, which uses freeze-dried biochemical reactions to operate genetically encoded tools outside of the lab in a biosafe format. Our efforts have led to the development of synthetic gene network-based diagnostics (e.g. Ebola and Zika viruses) and a portable platform for the on-site manufacture of protein-based drugs (e.g. vaccines, antibodies). We are now advancing these technologies in new directions and are looking for a postdoctoral fellow that shares our passion for innovation, practical applications and ultimately commercialization of new biotechnologies. The selected candidate will develop synthetic biology applications for human health as part of an interdisciplinary team of researchers.

Qualifications:

- A PhD degree in a relevant subject (e.g., microbiology, molecular biology, biochemistry, biomedical engineering, immunology)
- Minimum 3 years of technical experience within the research specialty field.
- Considerable experience with microbiology and molecular biology techniques (working with DNA and RNA, protein expression and purification), experience with tissue culture work.
- Experience designing and implementing genetic circuits. Protein expression and purification.
- Excellent track record of identifying and solving scientific problems using creative approaches.
- Excellent communication skills and the ability to work independently as well as effectively with a diverse group of interdisciplinary researchers

The group offers a collaborative mission-driven environment with a dedication to innovation and a commitment to interdisciplinary research. The ideal candidate will be an enthusiastic, highly motivated individual with strong interpersonal and communication skills, capable of effectively conducting research with others in a stimulating environment. We are seeking applicants with a PhD degree in a relevant subject (e.g., microbiology, molecular biology, biochemistry, biomedical engineering, immunology).

Additionally, the role involves generating publications, contributing to grants and regular progress reports, mentorship of students, and the maintenance of meticulous records.
Minimum Salary: $50,000/year

Expect start date: October 2018 or as soon as possible

FTE: 100%

Job Closing: September 20, 2018

The normal hours of work are 40 hours per week for a full-time postdoctoral fellow (pro-rated for those holding a partial appointment) recognizing that the needs of the employee’s research and training and the needs of the supervisor’s research program may require flexibility in the performance of the employee’s duties and hours of work.

The University of Toronto is strongly committed to diversity within its community and especially welcomes applications from racialized persons / persons of colour, women, Indigenous / Aboriginal People of North America, persons with disabilities, LGBTQ persons, and others who may contribute to the further diversification of ideas. Employment as a Postdoctoral Fellow at the University of Toronto is covered by the terms of the CUPE 3902 Unit 5 Collective Agreement.

To apply please send a curriculum vitae, a statement of research interests and experience, and contact information of three references via e-mail to keith.pardee@utoronto.ca, with “PDF – Syn Bio” in subject line. Applicants will be contacted by e-mail regarding the status of their applications; potential candidates will subsequently be asked to interview with the supervisor for the position.