

Post-doctoral research fellow position in Neural Engineering

“Electrical Neuromodulation of Bladder Function: A Mechanism of Action Study”

We are seeking a post-doctoral research fellow to work on an industry-sponsored project that aims to investigate the mechanism of action underlying a new clinical therapy for treating idiopathic overactive bladder (OAB). The research fellow will become part of the research team at the University of Toronto (located within the Institute of Biomaterials and Biomedical Engineering, www.ibbme.utoronto.ca) and collaborate with the scientific/medical team of the study sponsor (EBT Medical Inc., www.ebtmedical.com).

Based on the discovery of a novel bladder-inhibitory reflex in preclinical experiments and successful clinical translation into OAB patients, EBT Medical has begun commercializing a new clinical therapy. The objective of this project is to characterize the central nervous system pathways that mediate the bladder-modulatory effects of peripheral nerve stimulation. The outcome of this project is expected to help optimize the clinical delivery of electrical nerve stimulation.

Applicant qualifications:

- PhD or MD/PhD in neuroscience, physiology, biomedical engineering or relevant area.
- Expertise in rodent surgery (spinal cord injury model).
- Data analysis (e.g., Matlab), communication skills, publications in peer-reviewed journals

The position will be for an initial duration of 12 months and can begin as early as January 2020.

Please send a cover letter and curriculum vitae to Dr. Paul Yoo (paul.yoo@utoronto.ca).