

Postdoctoral Research Position in Control Systems/Machine Learning at The University of British Columbia

Applications are invited for a three-year postdoctoral fellowship at the University of British Columbia. The successful candidate will conduct high quality research in machine learning with a focus on deep learning and reinforcement learning to address real world industrial control problems. The principal investigators, based in UBC's Department of Chemical and Biological Engineering, the Institute of Applied Mathematics, and Honeywell, expect the research to have a significant influence on industrial practice. UBC and Honeywell have extensive experience in collaborating on advanced control technology. Previous projects have resulted in a series of academic innovations and industrial products recognized with awards from IEEE, IFAC, and NSERC.

Responsibilities: The postdoctoral fellow will be expected to

- Conduct high quality research in machine learning with a focus on deep learning and reinforcement learning.
- Coordinate the project with the industrial partners and prepare regular reports.
- Mentor PhD and undergraduate students.
- Travel to the sites of industrial partners and implement control/machine learning algorithms on real industrial processes.

Qualifications: The applications must have the following minimum qualifications

- A recent PhD in Control Systems and/or Machine Learning from a reputed program in Applied Mathematics, Computer Science or Engineering.
- Some experience with industrial control systems.
- Strong mathematical skills as they pertain to control theory and machine learning.
- Excellent programming skills in Matlab, Python and TensorFlow.
- Excellent written and oral communication skills.

Diversity: 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.

This position is available immediately. The home academic unit at UBC will be one of Chemical and Biological Engineering, Mathematics, or Computer Science, depending on the profile of the successful applicant. More information is available from Prof. Bhushan Gopaluni (bhushan.gopaluni@ubc.ca) and Dr. Greg Stewart (greg.stewart@honeywell.com), Senior Fellow at Honeywell. Interested applicants should send a covering letter, a Curriculum Vitae, and a list of three referees to the same address.