THE UNIVERSITY OF BRITISH COLUMBIA

One fully funded Ph.D. position in machine learning for lung and heart disease

The aim of the research project is the development of computational methods, based on machine learning, in managing post-COVID-19 related lung and heart complications, using point-of-care ultrasound imaging. The candidate will be closely interacting with clinicians, scientists, and engineers. The successful candidate will be based at the University of British Columbia located in Vancouver, BC, Canada. The research will be conducted at the Center for Heart Lung and Innovation housed within Providence Health Care's St. Paul's Hospital in the heart of downtown Vancouver, British Columbia, Canada. The candidate will be a graduate student at the School of Biomedical Engineering.

Requirements:
- A Masters degree in Computer Science or similar.
- Good knowledge of mathematics and statistics.
- Experience in using deep learning techniques for solving medical imaging problems (e.g., classification, detection, segmentation).
- Experience in Python, Matlab, and C++ programming.
- Working knowledge with PyTorch, TensorFlow (or any alternatives).
- Excellent communication and writing skills.
- Publication records at top machine learning or medical imaging conferences.

Please email your cover letter, and CV combined into a single PDF document to ilker@mail.ubc.ca