University of Toronto
Faculty of Applied Science and Engineering
Mechanical and Industrial Engineering Department

Faculty/Division: Faculty of Applied Science & Engineering

Department: Mechanical & Industrial Engineering

Campus: St. George (downtown Toronto)

Description
The Mechanical and Industrial Engineering Department of the University of Toronto is inviting applications for a Post Doctoral Fellow position in machine learning, reinforcement learning and Markov decision processes. The successful candidate will contribute to the project "*AI enabled tools to reduce risks to first responders in responding to freight transportation fire incidents*" supervised by Chi-Guhn Lee. The goal of the project is to develop tools to assist first responders to fire incidents using machine learning, data analytics and decision support methods.

Requirements
We are seeking a Post Doctoral Fellow candidate who holds a PhD in Industrial Engineering, Operations Research, Computer Science, Statistics, Mathematics, or related fields. Demonstrated knowledge in Markov decision processes, machine learning, reinforcement learning, Bayesian learning, simulation-driven optimization. Excellent communication skills (Oral and writing).

Salary: range from $35,704 to $50,000

Expected start date: as soon as possible

Term: One-year term with a possible renewal

FTE: 100% FTE

Closing Date: March 31, 2021

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 employees' research and training and the needs of the supervisor's research program may require flexibility in the performance of the employees' duties and hours of work.

Applications instructions: Applications must be submitted via email to Dr. Janet Lam at janet@mie.utoronto.ca including a cover letter, CV, sample of research papers and contact information for at least two references.

Employment as a Post Doctoral Fellow at the University of Toronto is covered by the terms of the CUPE 3902 Unit 5 Collective Agreement. This job is posted in accordance with the CUPE 3902 Unit 5 Collective Agreement.

The University of Toronto is strongly committed to diversity within its community and especially welcomes applications from racialized persons/ persons of colours, women, Indigenous/Aboriginal, People of North America, persons with disabilities, LGBTQ persons, and others who may contribute the further diversification of ideas.