**Research Assistant, Casual Term**

Faculty/Division: Faculty of Applied Science and Engineering

Department: Institute of Biomedical Engineering (BME)

Campus: St. George (Downtown Toronto)

**Description**:

The Institute of Biomedical Engineering (BME), a multidisciplinary research community where engineering, medicine and dentistry investigators collaborate to develop innovative solutions that address global challenges in human health, invites applications for a Research Assistant – Casual Term position. The anticipated appointment period is from May 1, 2023 to June 30, 2023. The work can be performed remotely.

**Duties**: The candidate will participate in a multidisciplinary project that aims at transferring an AI technology developed in the Audet Lab to the biomanufacturing industry. The duties will focus on modifying and combining existing optimization algorithms. The goal of the modifications will be to enable the algorithm to use data generated by industry researchers in cell culture experiments (*in vitro*) as opposed to data generated *in silico* with an objective function. The candidate who will be selected will be required to sign a confidentiality agreement.

**Minimum Qualifications:** Graduate students in Engineering or Computer Science.  Advanced skills in writing Python code (and libraries such as Pandas, NumPy, TensorFlow, Scikitlearn etc….) and machine learning is required. An ability to read and understand MATLAB code will also be a usual asset.

**Preferred Qualifications**: Some experience with process optimization.

**Rate**: $50/hour

**Duration:** 2 months (50 hours in total, due to project timelines, the preferred distribution of hours would be to complete at least 30 hours in the first month)

Applicants should submit their curriculum vitae and cover letter to julie.audet@utoronto.ca.