**Department of Mechanical and Industrial Engineering**

**Faculty of Applied Science and Engineering**

**University of Toronto**

**Job Posting for the 2020-2021 Session**

**This job is posted in accordance with the CUPE 3902 – Unit 1 Collective Agreement.**

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| **Job Description:** Sessional Lecturer – MIE1513H: Decision Support Systems | **Job Field**CUPE 3902 Unit 1 Faculty of Applied Science & Engineering |
| **Department:**Mechanical & Industrial Engineering | **Campus**St. George (downtown Toronto)  |
| **Job Posting:**June 1, 2020  | **Job Closing:**July 2, 2020  |

**Course number and title:** MIE1513H: Decision Support System

**Course description:** This course provides students with an understanding of the role of a decision support system in an organization, its components, and the theories and techniques used to construct them. The course will cover basic technologies for information analysis, knowledge-based problem solving methods such as heuristic search, automated deduction, constraint satisfaction, and knowledge representation.

**Estimated course enrolment:** 25

**Estimated TA support:** TBD

**Class schedule:** one three-hour lecture per week; timetable to be determined

**Sessional dates of appointment:** September 1, 2020 to December 31, 2020

**Salary:** as of September 1, 2019 is $10,000 (per half course inclusive of vacation pay). Please note that should rates stipulated in the collective agreement vary from rates stated in this posting, the rates stated in the collective agreement shall prevail.

**Minimum qualifications:** An instructor is needed to teach a course on data-driven computational approaches to constructing decision support systems. Knowledge of the theory and application of information retrieval, machine learning, recommendation systems, data science and visualization, natural language processing, and social network analysis is required. The ability to modify and develop Python and Jupyter notebook based lab and assignment content for the course as well as the ability to manage github-based assignment submission and autograding software is also required.

**Description of duties:** At the time of this posting, this course is expected to be delivered online in Fall 2020. Duties include: preparation of lectures and course materials; delivery of lectures; possible supervision of Teaching Assistants; setting and marking of projects, tests and exams; evaluation of final grades; contact with students.

**Application instructions**: See course instructor job postings on the department website at <https://www.mie.utoronto.ca/about-mie/careers/>. If interested, please submit an updated CV and a completed Application Form: <http://resources.hrandequity.utoronto.ca/wp-content/uploads/sites/27/2016/04/19-Unit-3-Application-Format.doc> to the MIE Graduate Office via email to celeste@mie.utoronto.ca.

If during the application and/or selection process you require accommodation due to a disability, please contact Celeste Francis Esteves (celeste@mie.utoronto.ca). The appointment will be made at the earliest possible time before the commencement of classes by the Associate Chair (Graduate) of the Department of Mechanical and Industrial Engineering. No other offers or notices of the outcome of applications are authorized by the Department. Final availability of the position is contingent upon final course determination, enrolment, budgetary considerations, and the final determination of assignments flowing from Article 14:03 of the Collective Agreement.

*It is understood that some announcements of vacancies are tentative, pending final course determinations and enrolment. Should rates stipulated in the collective agreement vary from rates stated in this posting, the rates stated in the collective agreement shall prevail.*

*Preference in hiring is given to qualified individuals advanced to the rank of Sessional Lecturer II or Sessional Lecturer III in accordance with Article 14:12 of the CUPE 3902 Unit 3 collective agreement.*

*Please note:  Undergraduate or graduate students and postdoctoral fellows of the University of Toronto are covered by the CUPE 3902 Unit 1 collective agreement rather than the Unit 3 collective agreement, and should not apply for positions posted under the Unit 3 collective agreement.*