The First Year Program in the Faculty of Applied Science & Engineering will be hiring at least Fifteen (15) Laboratory Teaching Assistants to support the Numeric Computation Component of MAT188H1S: Linear Algebra in the Fall 2020 term (September 1 2020 – December 31, 2020). These positions will be responsible for supporting the delivery of the MATLAB-based computer laboratory component for Linear Algebra.

**MAT188H1S – Linear Algebra:** This course covers systems of linear equations and Gaussian elimination, applications; vectors in Rn, independent sets and spanning sets; linear transformations, matrices, inverses; subspaces in Rn, basis and dimension; determinants; eigenvalues and diagonalization; systems of differential equations; dot products and orthogonal sets in Rn; projections and the Gram-Schmidt process; diagonalizing symmetric matrices; least squares approximation. Includes an introduction to numeric computation in a weekly laboratory.

The contracts will be for at least 60 hours, at the rate of $46.24 per hour, plus 4% vacation pay.

**Duties:** These teaching assistants will work directly with the course coordinator and the laboratory coordinator in order to: (a) Support students to complete their bi-weekly one-hour numeric computation laboratory exercises, (b) Help students develop a basic ability to use MATLAB to solve mathematical, scientific, and engineering problems, (c) See how numeric computation can be used in their other first-year courses and (d) Assess students’ degree of participation in the laboratory.

Estimated Enrollment: 950

**Qualifications:** Strong background in using MATLAB in an engineering context is required. Prior experience with working as a TA within the first year program and engineering mathematics courses is an asset.

How to Apply:
Candidates are asked to submit, as ONE PDF document, the following:

1. 1-page Cover letter;
2. Curriculum Vitae;
3. A summary that demonstrates your experience, interest and/or excellence in teaching (maximum 1 page).

The course and duties may be offered online, in-person or a hybrid of both, the decision about the delivery will be made/communicated by the University at a later date.

Submit application online via:
https://tinyurl.com/MAT188Fall2020

The application deadline is Friday July 17, 9 AM, 2020.

Posting Date: June 24, 2020.
If during the application and/or selection process you require accommodation due to a disability, fyjobs@engineering.utoronto.ca

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

This job is posted in accordance with the CUPE 3902 Unit 1 Collective Agreement. The Departmental Hiring Policy is available in the Department office and in the CUPE Local 3902 office. The position(s) posted above is (are) tentative, pending final course determinations and enrolments.

**Note:** Although a graduate student’s preference as to the campus location of his/her TA appointment will be taken into account, both the initial TA appointment (or CI appointment) and the subsequent appointment obligation related to that appointment may be met through position(s) on any one of the three University of Toronto campuses (UTM, UTSC or St. George) in courses in the same discipline as the initial appointment. TAs will only be assigned to courses in fields in which they are or should be qualified to assist.