The First Year Program in the Faculty of Applied Science & Engineering will be hiring sixteen (16) Laboratory Teaching Assistants to support the Numeric Computation Component of MAT188H1S: Linear Algebra in the Fall 2019 term (September 2019 – December 2019). 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 $\mathbb{R}^n$, independent sets and spanning sets; linear transformations, matrices, inverses; subspaces in $\mathbb{R}^n$, basis and dimension; determinants; eigenvalues and diagonalization; systems of differential equations; dot products and orthogonal sets in $\mathbb{R}^n$; 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 **64 hours, at the rate of $45.33 per hour, plus 4% vacation pay.**

**Duties:** These teaching assistants will work directly with the course coordinator, Dietrich Burbulla and the laboratory coordinator Chirag Variawa 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. **MAT188 PRA TA’s must be available for a 1-hour weekly teaching team meeting, which will be held on Thursdays 11am-12pm.**

**Estimated Enrollment:** 850

**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).

**Submit application online via:**

[http://tinyurl.com/MAT188H1LinearAlgebra-TAFall19](http://tinyurl.com/MAT188H1LinearAlgebra-TAFall19)

The application deadline is Wednesday, July 3rd, 9 AM, 2019.

**Posting Date:** Friday June 7, 2019.
If during the application and/or selection process you require accommodation due to a disability, please contact fyjobs@ecf.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.