



UNIVERSITY OF TORONTO

FACULTY OF APPLIED SCIENCE & ENGINEERING

MAT188H1S– Linear Algebra Numeric Computation (MATLAB) Laboratory Teaching Assistants CUPE 3902 Unit 1

The Faculty of Applied Science and Engineering is hiring will be hiring **Four (4) Laboratory Teaching Assistants** within the First Year Program to support the Numeric Computation Component of MAT188H1S: Linear Algebra for the term beginning January 2021. These positions will be responsible for supporting the delivery of the MATLAB-based computer laboratory component for Linear Algebra.

MAT188H1S – Linear Algebra Course Description This course covers systems of linear equations and Gaussian elimination, applications; vectors in R^n , independent sets and spanning sets; linear transformations, matrices, inverses; subspaces in R^n , basis and dimension; determinants; eigenvalues and diagonalization; systems of differential equations; dot products and orthogonal sets in R^n ; projections and the Gram-Schmidt process; diagonalizing symmetric matrices; least squares approximation. Includes an introduction to numeric computation in a weekly laboratory. Estimated Enrollment: 50

Duties: Online delivery. 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.

Skills and 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**:

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

Four Teaching Assistant positions are available for MAT188, from January 4, 2021 to April 30th 2021. The contract will be for **60 hours, at the rate of \$46.24 per hour, plus 4% vacation pay.** We thank all applicants for their interest; only shortlisted candidates will be contacted.

The application deadline is: November 13, 2020, 9:00 AM, EDT

Posting Date: October 22 , 2020.

Submit application online via:

<https://tinyurl.com/FYOCUPE1-TAWinter21-MAT188H1S>

***If during the application and/or selection process you require accommodation due to a disability,
fjobs@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.