



UNIVERSITY OF TORONTO

FACULTY OF APPLIED SCIENCE & ENGINEERING

First Year Foundations Program, Engineering Problem Solving and Mathematics Course
Faculty of Applied Science & Engineering
Summer 2022, August 08th – 19th, 2022
Job Posting – CUPE 3902 Unit 1
Emergency Posting

Engineering Problem Solving and Mathematics is a week-long non-credit course that is delivered to newly admitted Engineering Students prior to the beginning of their fall term. The course helps students appreciate that mathematics is an essential tool for an engineer, and a major component of their first year studies. This provides students with the necessary tools to build a strong math foundation and understand how engineers use mathematics to solve problems.

Topics include online:

- Trigonometric, exponential and logarithmic functions;
- relations and their graphs and limits;
- derivatives; and,
- An introduction to MATLAB

At least One (1) Teaching Assistant position is available for this course from **August 08th – 19th, 2022**. The contract will be for **24 hours, at the rate of \$47.17 per hour, plus 4% vacation pay**.

Qualifications: Minimum of a bachelor's degree in Engineering or Mathematics, with experience teaching first-year engineering students and/or mathematics. Strong experience in using MATLAB is required. Familiarity with pedagogical ideas of problem solving, mathematics, and MATLAB would be an asset. Previous experience is the more relevant criterion than the need to acquire experience in respect of this posted position.

Duties: Duties will include lab supervision and instruction. The teaching assistant for this course will be required to online:

- Prepare and run five hours of MATLAB tutorials for incoming first-year students;
- Prepare and lead experiments whose results will then be analyzed in the MATLAB tutorials; and
- Meet with the instructor to discuss the format of these.

The total amount of time with students would be eight hours, with a further eight hours for preparations. The course is expected to have around 30-50 students. This course will be delivered in-person (health guidelines permitting) from **August 15th - 19th, 2022**.

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).'



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

The Faculty of Applied Science & Engineering and First Year Office thanks all applicants for their interest; however, only those candidates considered for the position will be contacted.

Submit application online via:

<https://forms.office.com/r/E86guzJfc2>

The application deadline is May 9, 2022 9:00 am EST.

Posting Date: May 02, 2022.

If during the application and/or selection process you require accommodation due to a disability, please Contact : fyjobs@engineering.utoronto.ca

The University strives to be an equitable and inclusive community, and proactively seeks to increase diversity among its community members. Our values regarding equity and diversity are linked with our unwavering commitment to excellence in the pursuit of our academic mission. The University is committed to the principles of the Accessibility for Ontarians with Disabilities Act (AODA). As such, we strive to make our recruitment, assessment and selection processes as accessible as possible and provide accommodations as required for applicants with disabilities. If you require any accommodations at any point during the application and hiring process, please contact uoft.careers@utoronto.ca. During employment, to request accommodation from the University, contact the supervisor or department chair and/or Health & Wellbeing Programs & Services at hwb@utoronto.ca. For more information about accommodations at U of T, please visit our [Accommodation webpage](#).

The hiring criteria for Teaching Assistant positions are academic qualifications, the need to acquire experience, previous experience and previous satisfactory employment under the provisions of this Collective Agreement.

Candidates who are members of Indigenous, Black, racialized and LGBTQ2S+ communities, persons with disabilities, and other equity seeking groups are encouraged to apply, and their lived experience shall be taken into consideration as applicable to the position.

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, LGBTQ2S+ persons, and others who may contribute to the further diversification of ideas.



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

The position(s) posted above is (are) tentative, pending final course determinations and enrolments.

Positions posted here are open to Graduate Students in the School of Graduate Studies, Postdoctoral Fellows and Undergraduate Students in the University of Toronto.

Preference in hiring shall be given to Graduate Students enrolled in the School of Graduate Studies of the University of Toronto or those who have made application to be enrolled in the School of Graduate Studies of the University of Toronto.