



UNIVERSITY OF TORONTO

FACULTY OF APPLIED SCIENCE & ENGINEERING

First Year Foundations Program, Engineering Problem Solving and Mathematics Course

Faculty of Applied Science & Engineering

Coordinator -Summer 2022, August 08th – 19th, 2022

Job Posting – CUPE 3902 Unit 3

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 course provides students with an established problem solving framework to use across all of their engineering courses. This course will also provide students with the necessary tools to build a strong math foundation and understand how engineers use mathematics to solve real-world problems. This course introduces the use of MATLAB.

Topics include:

- Trigonometric, exponential and logarithmic functions;
- relations and their graphs and limits;
- derivatives; and,
- An introduction to MATLAB
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One (1) Instructional position is available for this course from August 08th – 19th, 2022. The contract will be for 60 hours, at the rate of \$46.92 per hour.

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

Duties will include developing and delivering instruction over 5 days, 9 am to 5 pm. Supervising a TA in lab (MATLAB) instruction.

The total amount of time with students would be 35 hours. The course is expected to have around 30 students.

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 will be offered in-person, unless health regulations mandate otherwise, in which case it will be offered online.

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.



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Submit application by email to: leslie.grife@utoronto.ca

The application deadline is July 8, 2022, 9:00 AM EST

Posting Date: July 5, 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.

This job is posted in accordance with the CUPE 3902 Unit 3 Collective Agreement.

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