The Faculty of Applied Science and Engineering is hiring 1 Special Development TA to lead the (re-)design, development, and testing of the lab portion of the introductory programming course, APS106 and to support its move to a more active-learning environment. The course begins on January 2021, and it is expected that this development work will start immediately.

**APS106 Course Description:** An introduction to computer systems and software. Topics include the representation of information, algorithms, programming languages, operating systems and software engineering. Emphasis is on the design of algorithms and their implementation in software. Students will develop a competency in the Python programming language. Laboratory exercises will explore the concepts of both Structure-based and Object-Oriented programming using examples drawn from mathematics and engineering applications. Est. enrolment: 500; 4 lecture sections; 8 tut and 8 lab sections.

**Duties:** The successful candidate will work directly with the course coordinator, Chirag Variawa, Director, First-year Curriculum, and will use existing lab material as a starting point to potentially redesign new labs, and/or improve existing labs, in addition to testing the existing autograding system (MarkUs) for reliability. They will also work to support the development of materials and exercises in support of the use of an active-learning centred approach for the lectures.

**Skills and Qualifications:** Good understanding of Python3 software language; strong, demonstrated interest in high-quality teaching/mentoring.

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

1. You must include the Job Title: “APS 106 Special development” in the subject line of your email
2. Their cover letter,
3. CV,
4. a 1-page well-communicated statement of how their interest and experience directly relate to the needs of the job. Demonstrated excellence in teaching/supporting first-year students is an asset.

Submit application online via:

[https://tinyurl.com/Special-DevelWinter21-FYOCUPE1](https://tinyurl.com/Special-DevelWinter21-FYOCUPE1)

Successful candidates may be invited to take on separate Head TA contracts during the deployment of the course in Winter 2021, along with the larger instructional team with all TA’s, depending on leadership interests and availability. Candidates will have access to e-learning resources.
One Teaching Assistant positions is available for APS 106, from October to December 2020. The contract will be for a minimum of 25 hours, 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: October 07, 2020 9:00 AM EDT.
Posting Date: October 02, 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.