

DEEP Stream Specialist – Summer 2019

DEEP provides well-rounded and highly motivated high school students, with an aptitude for math and science, from across the world with the opportunity for advanced study in a variety of engineering, technology, business and science disciplines. Organized by the University of Toronto's Faculty of Applied Science and Engineering, DEEP offers one of the most diverse ranges of pre-university engineering and science courses in North America. Since its inception in 2003, DEEP has brought together over 10,000 like-minded students to explore some of the most innovative topics in engineering and science today—taught by some of our faculty's top Alumni, Ph.D. and Masters students. This program has been designed to expose bright young minds to concepts usually presented in the upper years of an undergraduate degree or in graduate school.

More information about the DEEP can be found at: <http://uoft.me/deep>

The DEEP Stream Specialists (10) will play an important role for the High School Outreach Programs of the Engineering Outreach Office, specifically DEEP Spring Seminar Series and DEEP Summer Academy. Each specialist will be matched with a DEEP stream (~4 courses) for which they will be responsible. The specialists will provide support to DEEP Instructors during activities. The specialist role will be highly fluid; DEEP seeks candidates that will thrive in dynamic working environments.

Duties

All specialists must attend training. One training day is tentatively scheduled for Reading Week (February 23, 2019). Full details will be shared with successful candidates.

In collaboration with the Academic Team Leaders, Specialists are responsible for reviewing course outlines and other course documents prior to the start of program. They will assist with materials preparation and facilities management, as related to their stream.

Specialists are required to meet with stream-specific instructors at least once in May or June to go over logistics specific to their course(s).

Specialists will be present in class at all times and will support the entire course. Should an instructor be unexpectedly absent, the specialist will be expected to facilitate the course.

Specialists are the primary first aid responder in the classroom. They are expected to know the whereabouts of the first aid equipment at all times. Documentation related to incidents will be promptly completed by specialists.

Qualifications

- Must be a current (or recent graduate) University of Toronto student (preference will be given to students in engineering programs)
- Experience working with youth aged 13-18 is an asset
- Technical skills in one (or more) of the following areas:
 - **Mechatronics**
completion of MIE444H1 (preferred);
or completion of MIE342H1/MIE366H1/MIE346H1/AER372H1, or equivalent
 - **Circuits**
completion of ECE212H1/MIE342H1/ECE360H1, or equivalent
 - **Aerospace engineering + fluid mechanics**
completion of AER303H1 (preferred);
or completion of AER210H1/CHE211H1/CME270H1/MIE312H1, or equivalent
 - **Programming in Python, MATLAB, and C/C++/Arduino**
completion of APS106H1/CSC180H1/CSC190H1 and
MAT292H1/AER336H1/CHE322H1/ECE356H1, or equivalent
 - **Fabrication: SolidWorks/AutoCAD, machine shop, 3D printer, etc.**
demonstrated experience (professional experience/capstone/AER201H1, or equivalent design course) and completion of applicable safety courses
 - **Environmental engineering and science**
completion of CHE230H1/CHM310H1, or equivalent
 - **Materials engineering and science**
completion of MSE219H1, or equivalent
 - **Physiology + biology/bio-engineering wet lab**
completion of BME395H1 (preferred);
or completion of BME205H1/BME350H1, or equivalent
 - **Advanced physics**
completion of ECE330H1/PHY356H1/PHY407H1/PHY327H1, or equivalent
 - **Chemical engineering wet lab**
completion of CHE204H1, or equivalent

Details

Hiring Department: Engineering Outreach Office

Campus: St. George

Rate of Pay: \$16.30 per hour

Schedule: February to mid-June: part-time
mid-June to mid-August: full-time

opportunity to continue on a part-time basis in 2019-20

How to apply

Qualified applicants should submit their cover letter with resume and unofficial transcript to the attention of Claire Heymans, Outreach Coordinator, Engineering Outreach Office. Submissions can be emailed to apply@engineeringoutreach.ca (please include the position you are applying for in the subject line).

Applications are due no later than February 1, 2019 at 12:00 PM.