

# Women in Science and Engineering (WiSE) Volunteer Positions

## A. Winston Churchill Volunteers

### **Roles and responsibilities:**

Volunteers will work with the lunchtime program at the Winston Churchill Elementary School with girls in grades 4-6. Volunteers generally attend the school in groups of 3 - 4 and are assigned to a certain day of the week, on a 2 week rotation (depending on the number of volunteers). The volunteers are required to create a lesson plan for each week, which must be sent to the coordinator for review (typically, by the Saturday night before they visit the girls).

For more information on this position, please feel free to contact [wise.wcop@engsoc.queensu.ca](mailto:wise.wcop@engsoc.queensu.ca).

### **Expected time commitment (hours/week):**

~ 4-6 hours/week. This would include a monthly meeting and time to review lesson plans outside of the meeting.

### **Skills/competencies required:**

- Leadership skills
- Committed
- Enthusiasm and passion for science, engineering and teaching
- Creativity
- Experience working with children is an asset (not required)

## B. Boys and Girls Club Volunteers

### **Roles and Responsibilities:**

Volunteers will conduct weekly lessons for the Boys & Girls after school club. Their task is to create a lesson plan and interact with the children and engage them in order to stimulate their interest in science and engineering. Ages of the participants will range between grades 1 - 7. This event will run through the months of October and November on a series of Tuesdays.

For more information on this position, please feel free to contact [wise.bgclub@engsoc.queensu.ca](mailto:wise.bgclub@engsoc.queensu.ca).

### **Skills/Competencies Required:**

- Motivated and organized
- Approachability
- Enthusiasm and passion for science, engineering and teaching
- Creativity
- Experience working with children is an asset (not required)

**Expected Time Commitment (hours/week):**

~ 2-5 hours

This includes meetings to set up the lesson plan and collection of materials.

### **C. Girl Guides Volunteers**

Badge Day is an opportunity for young Girl Guides in the Kingston Community to partake in a day of engaged learning about engineering and the sciences in a hands-on way. The event introduces the young guiders to engineering and the sciences in a unique way, as the girls earn a badge throughout the day. The Girl Guides community has shown great interest in participating in the Badge Day events. This event will run in the winter semester. Volunteers will attend a few meetings leading up to the event as well as one full day at the event running a station.

For more information on this position, please feel free to contact [wise.girlguides@engsoc.queensu.ca](mailto:wise.girlguides@engsoc.queensu.ca).

**Skills/Competencies Required:**

- Works well in teams
- Enthusiasm and passion for science, engineering and teaching
- Creativity
- Experience working with children is an asset (not required)

**Expected Time Commitment:**

1-2 hours/week leading up to the event

1 full day (on a weekend) at the event

### **D. EngSci Day Volunteers**

Engineering and Science Day is an event run twice a year, which introduces girls to science and engineering in a fun way. Girls from the Kingston community come to this full day event to be motivated and inspired as young women in STEM. Volunteers will perform fun, and interactive science experiments (think borax bouncy balls) to get them interested in science!

For more information on this position please feel free to contact [wise.engsci@engsoc.queensu.ca](mailto:wise.engsci@engsoc.queensu.ca).

**Skills/Competencies Required:**

- Works well in teams
- Enthusiasm and passion for science, engineering and teaching
- Creativity
- Experience working with children is an asset (not required)

**Expected Time Commitment:**

1-2 hours/week leading up to the event

1 full day (of a weekend) at the event

## **E. High School Outreach Volunteers**

WiSE visits high schools in Kingston and the GTA to encourage students, especially females, to pursue the STEM fields in post-secondary education. This is done through presentations for grade 10 and 11 students that are geared towards individuals unsure of STEM and to dispel common misperceptions about these fields of study. Volunteers will be leading presentations and adding stories and advice from their own experiences in Engineering or Science.

For more information on this position, please feel free to contact [wise.hso@engsoc.queensu.ca](mailto:wise.hso@engsoc.queensu.ca).

### **Roles and Responsibilities:**

- Creating and modifying presentations
- Presentation to a medium-large group of High School Students
- Interacting and engaging the High School Students
- Answering questions from High School Students

### **Expected Time Commitment:**

~ 3 hours a week, with about 5-6 hrs/week in presentation-heavy weeks.