

# Do you know an aspiring engineer?

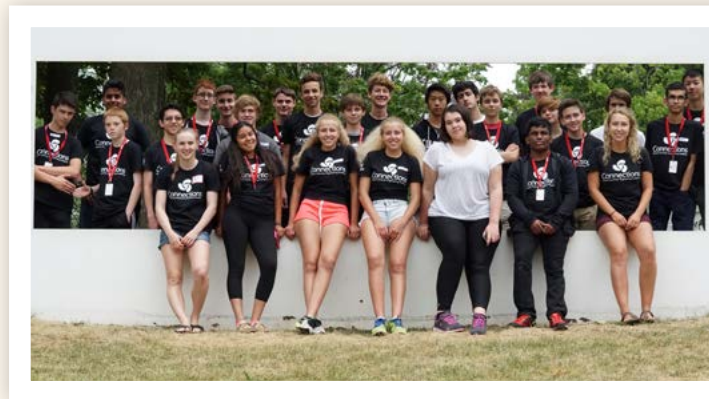
If you know someone who is currently in grades 7 through 12, you can give them an introduction to the Queen's Engineering experience with Connections: Queen's Summer Engineering Academy (QSEA), and QSEA Jr.

With both residence and day options available, the QSEA program is an engineering-focused educational summer program that exposes your child to engineering design, as well as engineering fields such as chemical, civil, electrical and computing, geological, mechanical engineering, mining, and others.

The Academy runs in July and August, and offers three concurrent programs per week, with each exploring interesting components and disciplines of engineering. Students can attend a one week session, or to get a complete picture, they can sign up for as many weeks as they wish.

QSEA and QSEA Jr. presents students with a broad engineering overview, using lab facilities and thought-provoking projects to inform and engage students without being technically overwhelming. The team-based design projects involve collaboration, leadership, communication, creativity, and critical thinking. These are based on the same concepts and methodologies Queen's Engineering students study.

The residence program includes: on-campus accommodations with three meals/day, full-time supervision, and supervised activities each evening. The day program includes lunch, and full-time supervision.



“ I developed a more accurate interpretation of each branch of engineering and have discovered a few that I did not previously know. ”  
—QSEA student

“ I learned more in two weeks than I did in the last two years of high school. ”  
—QSEA student

2017 Program Delivery Dates for QSEA Jr. (Gr. 7 & 8) and QSEA (Gr. 9-12)			
Week	Date	Course	Description
1	July 17th—July 21st	QSEA Jr.	Introduction to Engineering Design, Innovation, and Maker Spaces
		QSEA Course A	Engineering Design, Electrical & Computer, Mechanical, and Biomedical Engineering
		QSEA Course B	Engineering Design, Chemical Engineering, Engineering Chemistry, and Civil Engineering
2	July 24th—July 28th	QSEA Jr.	Introduction to Engineering Design and EV3 Lego Mindstorms (Robotics)
		QSEA Course C	Engineering Design, Geological, Mining, and Civil Engineering
		QSEA Course D	Using Design Thinking to Engineer Innovation
3	July 31st—Aug 4th	QSEA Jr.	Introduction to Engineering Design, Innovation, and Maker Spaces
		QSEA Course A	Engineering Design, Electrical & Computer, Mechanical, and Biomedical Engineering
		QSEA Course B	Engineering Design, Chemical Engineering, Engineering Chemistry, and Civil Engineering
4	Aug 14th— Aug 18th	QSEA Jr.	No Programming
		QSEA Course C **	Engineering Design, Integration of Electrical & Computer Engineering with Geological and Mining Engineering
		QSEA Course D	Using Design Thinking to Engineer Innovation

**\*\* Week 4 QSEA Course C has been ammended to include Electrical and Computer Engineering**

“ I wanted to congratulate you on the depth and breadth of your QSEA program. My son had a blast and was very impressed by the diversity of activities, and was very excited about the geological engineering part. ”  
—QSEA parent

For more information, check out our website:  
**[engineering.queensu.ca/qsea](http://engineering.queensu.ca/qsea)**