Queen's Summer Engineering Academy 2022
Girls In-person Program

For more information, check out our website: queensconnections.ca

CURIOSITY CREATES
A BRIGHT FUTURE
About the Program

Connections Engineering Outreach

Connections Engineering Outreach was established in March of 2014, and is an engineering-focused educational outreach program run through the Faculty of Engineering and Applied Science (FEAS) at Queen's University. Connections manages and facilitates educational Science, Technology, Engineering, and Math (STEM) outreach programs in the greater Kingston area and beyond. The STEM outreach activities supported by Connections are targeted at specific audiences such as K-12 students and underrepresented and minority groups in the engineering profession. Connections also facilitates a number of programs focused on building educator capacity to integrate STEM concepts into the classroom.

QSEA Girls 2021: Parent Testimonials

“The QSEA Girls instructors were wonderful! They were attentive, encouraging and responsive. My daughter has developed a keen interest in some of the apps which were introduced, which she probably wouldn't have known about had this program not been available. The experiments also gave us time to work and discover things together, which was a fun bonding opportunity. Thank you!”

“It was a great program with wonderful leaders. Their conversations and feedback, and the interest they showed in all the girls inspired their own interests. My daughter was excited by what she learned and what she now is able to do. Thank you!”

Queen’s Summer Engineering Academy (QSEA)

In 2016, Connections launched the Queen’s Summer Engineering Academy, which is an engineering-focused summer program that exposes students to engineering design and a variety of engineering disciplines. QSEA Girls 2022 will provide learning opportunities for students to explore several areas of engineering offered at Queen's University.

QSEA Girls 2022 Course Descriptions

This series of free summer programming presents students with an overview of engineering using age-appropriate, and thought provoking projects to inform and engage students without being technically overwhelming. Participants will work with female instructors as they participate in activities, promote collaboration, leadership, communication, creativity, and critical thinking!

These programs are currently scheduled to run in-person at the Queen's University campus. Connections Engineering Outreach continued to monitor the COVID-19 situation and will adhere to all public health guidelines. These programs are subject to cancellation.

Please note that we are offering Girls programming both in-person at the Queen's University campus and virtually through Zoom, to suit your family's needs!

Engineering your Ecosystem (Currently in Grades 1 - 2)

Course Description: From global ecosystems to our own backyards, ecosystems big and small are influenced by our everyday actions. Participants will learn about the interconnectedness of the world through engaging technology and hands-on activities!

Sessional Dates:
July 4 - 8, 2022; August 15 - 19, 2022

Engineering Our Waterways (Currently in Grades 5 - 6)

Course Description: Queen’s campus is situated on Lake Ontario, providing the perfect environment to introduce a variety of engineering disciplines centered on the wonders of water - from our lakes to our taps. This program will stimulate participants’ creative problem-solving skills through a variety of hands-on engineering labs. Get to know Earth’s greatest resource!

Sessional Dates:
July 18 - 22, 2022; July 25 - 29, 2022

Engineering Biomaterials (Currently in Grades 3 - 4)

Course Description: With eco-conscious plastic alternatives hitting store shelves, perhaps you’ve wondered about the science behind these new materials? In this program, participants will learn about the use of these innovative materials across various domains of life, from healthcare to entrepreneurial pursuits!

Sessional Dates:
July 11 - 15, 2022; August 8 - 12, 2022

Taste of Engineering (Currently in Grades 7 - 8)

Course Description: In this program, participants will explore engineering through a delicious new lens! Participants will get first-hand experience of the wide array of applications that engineering has to offer. From chemical reactions, materials sciences, and production processes, this program is sure to be a treat!

Sessional Dates:
August 3 - 5, 2022 (3 day program)