

# STEM Programs for Junior High Students

Here at WISEST (Women in Scholarship, Engineering, Science and Technology), we are thrilled to be able to serve young women and gender diverse individuals through our programming. Although we don't currently have WISEST specific programming for junior high school students, we want to share a list of other STEM programs that are available to junior high school students in Canada. If you know of any other programs that would be a great addition to this document, please email [wisest.outreach@ualberta.ca](mailto:wisest.outreach@ualberta.ca) to let us know!

\*Links used in this document are external. While we do our best to ensure that all links are live, there might be circumstances where the links might be changed or removed.

## STEM Programs for Junior High Students

### Alberta

#### Roots2STEM (Calgary)

[roots2stem.ca/](http://roots2stem.ca/) | Grade 7-10



Roots2STEM is a not-for-profit educational organization inspiring and sharing the passion of STEM+A (science, technology, engineering, math, and the arts) through innovative hands-on learning. With small class sizes and professional engineering instructors and mentors, they provide a uniquely diverse and inclusive setting where budding scientists have access to state-of-the-art equipment including robotics, 3D design printing, laser cutters and much more.

#### Operation Minerva

[sparkscience.ca/schools/school-programs/operation-minerva](http://sparkscience.ca/schools/school-programs/operation-minerva) | Grade 8-9



Operation Minerva is a one-day virtual conference that connects Grade 8 and 9 girls to professional female or non-binary role models in Alberta working in STEM (Science, Technology, Engineering, Math) for a fully packed mentorship day.

#### Green School (Edmonton)

[botanicgarden.ualberta.ca/programs-courses/green-school/](http://botanicgarden.ualberta.ca/programs-courses/green-school/) | Grade 4-8



A 5 day class trip for grades 4-8 allowing students to experience the natural world in the University of Alberta Botanical Gardens. Emphasis on observation, hands-on inquiry, and guided exploration to cultivate an appreciation for biodiversity and understanding the importance of conservation.

### Outside Alberta

#### SciX (York University)

[science-explorations.info.yorku.ca/summercamp/](http://science-explorations.info.yorku.ca/summercamp/) | Grade 7-10



Science Explorations Summer Day Camp are in-person, week-long camps during the month August. Campers explore Science, Technology, Engineering, and Mathematics through hands-on and exciting experiments as connected to the Ontario Science Curriculum. Camps are developed and taught by undergraduate/graduate science or engineering students, Teacher Candidates, or Ontario Certified Teachers.

## EUREKA! Summer Camp (Thompson River University)



[tru.ca/eureka/summercamp.html](http://tru.ca/eureka/summercamp.html) | Grade 7-10

At this summer camp, campers will enjoy an interactive week of demonstrations, hands-on activities, group activities, building projects, university tours, outdoor activities, and games. Areas of science covered include: biology, chemistry, physics, engineering, and technology (and more!).

## QSEA (Queen's Summer Research Academy) (Intermediate)



[queensconnections.ca/summer-programs/qsea-intermediate/](http://queensconnections.ca/summer-programs/qsea-intermediate/) | Grade 7-8

This is a week-long asynchronous program with synchronous check-ins for grades 7-8 covering major engineering topics, such as fundamentals of the engineering design process and how it is applied to real world problems. It also provides opportunities to explore robotics, 3D printing, MIT software, and more. Currently virtual. No fee to participate (deposit required).

### National

## Code Ninjas Summer Camps (Windermere and Spruce Grove)



[codeninjas.com/](http://codeninjas.com/) | Grade 7-10

At Code Ninjas kids learn to code while building their own video games. They gain problem solving, critical thinking, and STEM skills in a fun, safe, and inspiring environment.