

# 2018–2019 School Year Hands-on STEM Programs



Making **STEM** Education  
and Careers Come Alive

[juniortech.org](http://juniortech.org) | [info@juniortech.org](mailto:info@juniortech.org)

## 2018 STEM Workshops

### Project Runway— STEAM Edition

Saturday, November 3, 2018

9:00 am–3:00 pm

Fee: \$87

Grades: 5–7

Class size limited to 12 students

Where: Osterville Village Library

43 Wianno Ave, Osterville, MA

**Are you passionate about the environment, improving people's lives, or futuristic fashion?**

**I**n this one-day course, students will use a Design Thinking process to create hi-tech clothing, textiles, or wearable technology in order to solve a problem or fill a need in their community. Students will create a digital model or 3-Dimensional prototype then, effectively communicate how their final product would meet the challenge. Think, design, make!

### Building a PC

Saturday, December 15, 2018

9:00 am–3:00 pm

Fee \$75

Grades: 8–12

Class size limited to 10 students

Where: Osterville Village Library

43 Wianno Ave, Osterville, MA

**Get under the hood of a personal computer and understand how it all goes together!**

**D**uring this one-day workshop, students will be taught everything that goes into building a PC! They'll learn where the parts go, how to organize the cables properly, and how to install an operating system onto a new computer. After completing this workshop, students will understand how the hardware, software, and electronics combine to make a working computer!

**Register online, using PayPal or credit card, via [juniortech.org](http://juniortech.org)  
Call 774-994-2097 for space availability if paying by check.**

Jr.Tech's mission is to engage 4th–12th grade students in Science, Technology, Engineering, and Math (STEM) education. We broaden students' awareness of career paths in STEM, increase skills, and encourage a lifelong interest. Jr.Tech, Inc. is a 501(c)(3) nonprofit corporation.

*Thank you to our 2018–2019  
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# 2019 STEM Workshops

## Robot Rangers

Saturday, February 2, 2019

9:00 am–3:00 pm

Fee \$75

Grades: 4–6

Class size limited to 15 students

Where: Osterville Village Library

43 Wianno Ave, Osterville, MA

**Spend a day learning about robots using engineering design and programming!**

In this Make and Take class, kids will spend an exciting day working both individually and in teams to learn to program and build a DIY robot, design robot mazes, and compete in a variety of robot races throughout the day.

## Living in a Virtual World

Saturday, March 2, 2019

9:00 am–Noon

Fee \$55 (includes 3D goggle kit)

Grades: 5–7

Class size limited to 15 students

Where: Osterville Village Library

43 Wianno Ave, Osterville, MA

**What is Virtual Reality (VR)?**

Virtual Reality is not just about playing fun games! In this one-day workshop, students will learn how VR will impact and shape our lives and what it can do. Virtual Reality will change how we live, learn, teach, interact and experience our world. Students will make a pair of VR goggles to take home, draw and illustrate a 3D scene, and many more hands-on activities to learn all about Virtual Reality.

# 2019 April Vacation Workshop

## Intro to CAD, Autodesk® Fusion 360 3D Modeling and 3D Printing

Monday–Friday, April 15–19, 2019

9:00 am–3:00 pm each day

Fee \$270

Grades: 7–12

Class size limited to 10 students

Where: Osterville Village Library, 43 Wianno

Ave, Osterville, MA

Architects, engineers, drafters, artists, and others use CAD (computer-aided design) software to create precision drawings or technical illustrations. CAD software can be used to create two-dimensional (2D) drawings or three-dimensional (3D) models.

Students attending this week-long workshop will gain an introductory understanding to CAD software with specific focus on Autodesk's 3D modeling in Fusion 360. We'll introduce you to valuable tools for learning Fusion 360, and give you great tips and tricks. Students will also create simple designs to print out on 3D printers!

Classes may be cancelled due to low enrollment. Workshop enrollment fee is non-refundable unless an electronic notice is provided four weeks before the date of the workshop. A \$40 processing fee is applied to cancellations. A code of conduct and waiver must be completed at registration. Our organization does not discriminate on the basis of race, color, sex, disability, religion, national origin, or sexual orientation.