

# SRI&ETTC



## MAKERSPACE MONDAY – WINTER-SPRING 2019

Bring your imagination and creativity! In these exciting and interactive workshops, participants will have the opportunity to discover how schools are integrating “making” into their classrooms and libraries. Participants will have the opportunity to make, design, program and play while exploring the elements that comprise a makerspace. Participants will also learn how to foster innovation and creativity in all curricula, from STEM to the arts to humanities (SHTEAM).

Want to know how to create or expand your own spaces? Are you on a tight budget? These sessions provide a hands-on, interactive maker’s environment for attendees to explore some of the new digital, high tech and low-tech fabrication tools used in schools. Participants will leave full of ideas for affordable spaces AND curricular connections in all areas: Arts, STEM, Humanities, and Languages.

### **MAKERSPACE MONDAY – OPEN EXPLORATION SESSIONS**

In these open sessions, participants will have the opportunity to explore whatever ideas meet the needs of your classroom. Participants will get hands-on with fabrication and design thinking using Robots, Arduinos, Cardboard (MakeDo), Claymation, green-screening, soft circuits (eTextiles and wearables), Makey Makey, Micro:bits, drones, Google Cardboard, and much more!

**Dates + Times:** January 28, March 18 or May 13, 2019, 9 a.m. to 3 p.m.

**Cost:** \$106 or 4 ETTC Hours per session

### **MAKERSPACE MONDAY WITH ELECTRICAL ENGINEERING- SEWABLE AND PAPER CIRCUITS**

Create paper and textile circuitry with hands-on activities and see how it can successfully engage students in STEM through art and making, and explore teaching resources for your classroom. Paper and textile circuitry are creative learning tools that blend making and personal expression with engineering and technical problem solving. Create personalized, physical artifacts to make electronics come alive.

**Date + Time:** February 4, 2019, 9 a.m. to 3 p.m.

**Cost:** \$106 or 4 ETTC Hours

### **MAKERSPACE MONDAY WITH LITTLE BITS**

In this workshop, participants will learn to build prototypes and invent devices to solve real-world problems with technology. Participants will create elaborate moving animatronics that will teach your class to work together to communicate ideas, and give and receive constructive feedback about their inventions. Working with LittleBits can help students develop perseverance and creative confidence as they encounter a problem, struggle with it, and experiment with possible solutions.

**Date + Time:** March 4, 2019, 9 a.m. to 3 p.m.

**Cost:** \$106 or 4 ETTC Hours

### **MAKERSPACE MONDAY WITH 3D PRINTING**

What is possible with 3D printing in Makerspaces? Come find out in our Makerspace session focusing on 3D Printing! Learn how to create functional items in easy to use CAD software, examine the materials schools use, the working and calibrating of a 3D Printer for successful prints, and the slicing of objects into G-code that the printer understands. In this workshop, participants will gain a solid foundation in 3D printing best practices and resources to get your students 3D designing and printing.

**Date + Time:** February 25 or April 29, 2019, 9 a.m. to 3 p.m.

**Cost:** \$106 or 4 ETTTC Hours

### **MAKERSPACE MONDAY WITH PROGRAMMABLE ROBOTS**

Spend a day with our Robots! In this workshop, participants will gain powerful knowledge in STEAM learning (Science, Technology, Engineering, Arts & Math). Participants can experiment with robots like Ozobots, Lego Mindstorms EV3, Finches and Ollies. These robots are machines that can do three things: sense, act and think. Robots are now accessible for students of all ages and abilities and are an engaging classroom tool to support STEAM. Participants will have the opportunity to develop ideas to engage students with robots that students can either build themselves or transform with maker materials.

**Date + Time:** March 25 or May 6, 2019, 9 a.m. to 3 p.m.

**Cost:** \$106 or 4 ETTTC Hours

### **MAKERSPACE MONDAY WITH STOP MOTION ANIMATION**

Makerspaces easily lend themselves to Stop Motion creativity- in this session learn how educators have maximized their makerspaces to create rich learning experiences by combining techniques and tools that develop the 4 Cs. See what tools educators are using and learn some simple hacks to get you started! We will explore making animations from found objects, sculptures, and more! Learn how to make stop-motion animations with or without cameras to retell stories, illustrate original narratives, show the steps of scientific processes and recreate historical events!

**Date + Time:** April 8, 2019, 9 a.m. to 3 p.m.

**Cost:** \$106 or 4 ETTTC Hours

**Workshops will be guided by Michelle Wendt, Instructional Technologist at the SRI&ETTC.**

**FOR MORE INFORMATION OR TO REGISTER PLEASE VISIT [WWW.ETTC.NET](http://WWW.ETTC.NET).  
IF YOU NEED ADDITIONAL INFORMATION PLEASE CALL 609-626-3850.**

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