



Become a ReCreate Maker Ambassador!

What is a ReCreate?

ReCreate provides sustainable maker education, via our GeniusMobile - a mobile maker-space. We promote accessibility and break down barriers to spark creativity, making, technology literacy, & collaboration. By diverting clean usable waste from local businesses and combining it with high-tech tools, ReCreate delivers hands-on, project-based learning in the areas of Science, Technology, Engineering, Art and Math. ReCreate empowers our region's youth by helping students learn vital skills necessary to compete and lead the 21st century workforce. Simultaneously, ReCreate diverts over 60 tons annually of materials no longer needed by regional businesses.

What is a Maker Ambassador?

Maker Ambassadors are volunteers who are trained to use the technology that ReCreate brings into classrooms. By attending trainings, Ambassadors will learn about 3D printing, circuitry, robotics, and programming. For every 2 hours of training that ambassadors attend, they will volunteer for 4 hours at one of our community events.



Benefits for you:

- * Gain new valuable skills
- * Add to your resume
- * Giving back to your community

Workshop offerings:

Intro to Maker Ambassador Program (all interested ambassadors MUST attend!):

- Overview of Maker Ambassadors
- Intro to the Maker Movement, STEAM, and Project Based Learning
- Building a maker portfolio: learn how to showcase the projects you will make in the next few weeks!

Design for 3D Printer and Laser Cutter:

- Learn how to use TinkerCAD, a free online program, to create objects for 3D printing (1 hour)
- Create laser cutter/etcher compatible designs in Inkscape (1 hour)

Little Bits:

- Go through a series of tutorials to use Little Bits for various applications including sensing and robotics
- Start with set challenges for the first hour, then split into teams and explore what you can make!

3D Printing Part 2

- Identify the different parts of a 3D printer and observe how the printer operates.
- Use the free software Cura to print out STL objects from the web.
- Set up printers, change filament, and change settings on Cura.
- Learn troubleshooting tips and tricks.

Intro to Programming with Scratch and Makey Makey:

- Learn how to use Scratch to build interactive games and animations, and then to create your own custom controller from everyday objects using Makey Makey!

Hummingbird Robotics (attendance at Scratch workshop required)

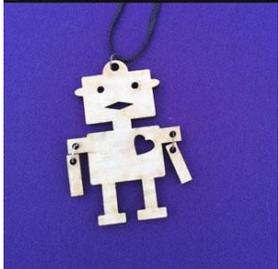
- Program LEDs, sensors, and motors with scratch to build your own robot from cardboard and styrofoam!

Sphero Robotics:

- Get familiar with Sphero, a small robot that can be controlled from any smartphone or tablet.
- Use SPRK Lightning Lab to program Sphero with drag and drop coding.

Squishy Circuits

- Get your hands dirty and make your own conductive and insulating dough! Then use the dough to put together basic circuitry.



To apply, fill out the application at <http://bit.ly/ReCreateMakerAmbassador>
For more information, email trina@recreate.org or call (978) 491-8187