

## What are these tools and technologies, anyway?

**Arduino:** An open single-board microcontroller. Easily modified, you can learn how to use Arduino to create interactive objects.  
<http://www.arduino.cc>

**3D Printing:** Using a 3D computer model, a 3D printer creates the object from melted plastic. This can be used as-is, or as a prototype that a factory might produce. Many web-based programs allow you to create 3D models for **free**:

- Geometric block based design  
<http://www.tinkercad.com>
- Design as if working with clay  
<http://pixologic.com/sculpttris/>
- Download premade models  
<http://www.thingiverse.com>
- Popular free 3D software  
<http://www.sketchup.com/>

**Vinyl Cutter:** A machine that can cut vinyl for application for signs, windows, cars, electronics, and so on. A 2D computer file guides the vinyl cutter. Text, art, or both can be cut out by the vinyl cutter.

**Heat Press:** Using heat-transfer paper or heat-transfer vinyl, you can apply a design to a range of objects and materials such as T-shirts, mouse pads, etc.

**Singer Quantum Stylist:** The Idea Farm's sewing machine is programmed with preset stitches which a user can view and edit on the sewing machine's screen.

### Useful Links for Makers

Need inspiration or some project help? Try out the following websites, which cover a lot of the technologies listed above, and more besides, such as "garduino" - garden focused Arduino projects:

<http://www.instructables.com>  
<http://makeitatoryourlibrary.org/>  
<https://diy.org>  
<http://makezine.com/projects/>

### Materials Costs:

To sustain the Idea Farm we charge for consumable materials to cover our costs.  
3D Prints: 25 cents per .1 of an ounce  
Vinyl: 50 cents per 3" length (12" wide)  
Transfer Paper: \$2 per full sheet  
Backpack or Mousepad for Heat Press: \$4, includes a sheet of transfer paper



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# What is the Idea Farm?



idea  
farm

OLD BRIDGE  
LIBRARY

Funding for this Makerspace Initiative is provided by the New Jersey State Library and by LibraryLinkNJ, The New Jersey Library Cooperative, whose services are funded by The New Jersey State Library, which is responsible for the coordination, promotion and funding of the New Jersey Library Network. Additional Funding Provided by the Friends of the Old Bridge Public Library.

# The Old Bridge Library Idea Farm: A place for you to make/explore/play/learn



The Idea Farm is both a creative space for the community and a place for the community to share knowledge.

It is a 'makerspace' where folks can tinker, experiment, explore and learn at their own pace.

The Idea Farm consists of a workshop space, tool and equipment collection, and outdoor demonstration garden.

We will support this project with classes, informational programs, book collections, and open work hours for the public.

The Idea Farm was created based on feedback from the Old Bridge community. Our main areas of concentration are noted here, but we are always looking at ways to expand and improve what we offer the public. Let us know if you have any suggestions.

## HOW TO GET INVOLVED?

To use the Idea Farm you'll need to complete a general Safety Certification class, with specific equipment requiring special safety instruction.

Most essential to making the Idea Farm a vital and exciting place to work will be community mentors – people with an interest in sharing what they know with others using the Idea Farm workshop. *If you're interested in being a community mentor, please let us know!*

## TOOLS, TECH, EQUIPMENT

Here are a few of the things available for use in the Idea Farm, as well as things we will run programs on:

- Replicator 5th Gen 3D Printer
- Digitizer 3D Scanner
- Roland Vinyl Cutter
- GeoKnight Heat Press
- Singer Quantum Stylist 9960 Sewing Machine
- Weller Analog Soldering Station
- Basic Hand tools and Electric Drill
- Safety Equipment
- Arduino Microcontroller classes
- Lego Mindstorms Robotics teen classes

## GARDEN AND KITCHEN

Our garden and kitchen programs show how to grow produce and prepare it regardless of your garden space. With assistance from the Rutgers Master Gardeners, the Society Hill Garden Committee, and local gardening enthusiasts we will offer informational classes.

Our Kitchen Arts programs will show how to:

- Dehydrate
- Pickle
- Herb-infuse vinegars and oils
- Panini-press
- And more!

With these kitchen skills at hand, participants can apply them to their own recipes and expand what they can prepare in the kitchen.

## WORK IN THE IDEA FARM

The Idea Farm is a workspace for the public to use. To gain workshop usage access, we ask for two things:

- **Pass our Safety Class.**
- **Sign a Liability Waiver**

Once certified to use the space, you can come and work on your own projects as long as Staff or Community Mentors are present to keep the workshop open.

Safety classes will be offered multiple times a month, and can be signed up for at our information desks or over the phone. Since we hope to add new equipment each year, yearly recertification will be required to maintain access to the Idea Farm workshop.

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