

September

# 14 Make It at the Library 2015

2015

## Training Purpose:

Provide participants with the knowledge, resources, & skills to implement & evaluate formal & informal teen maker programming.

## Desired Outcomes:

By the end of the training, participants will:

1. Increase understanding of 3D Printers & relevant software programs.
2. Increase understanding of 3D design software.
3. Develop skills to implement formal & informal teen programs using 3D design and printing
4. Identify outcomes and evaluation indicators for use in making in the library.

## Facilitators:

**Erica Compton**

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**Sue Walker**

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**Nick Raymond—Maker Media**

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**Adam Day—Twin Falls Public Library**

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## Agenda

<b>8:30 a.m.</b>	<b>Light Breakfast, sign in, and networking</b>	
8:55 a.m.	Welcome & Housekeeping Agenda Review	Discussion
<b>9:00 a.m.</b>	<b>Getting Started</b> Choosing a printer; Buying options; Software	<b>Discussion</b>
10:00 a.m.	Getting Started continued Your first print Printer anatomy (Hardware) Print: calibration cube	Activity
<b>11:00 a.m.</b>	<b>Software for 3D Printing</b> 3D modeling/CAD Software Slicing/CAM software	<b>Discussion</b>
12:00 p.m.	Lunch Pacific Northwest Girls Collaborative Network FabFems; SciGirls	Discussion
<b>1:00 p.m.</b>	<b>Software for 3D Printing continued</b> Printer Controller/Client Software Print: fan shroud - use Cura to slice, Repetier to control printer	<b>Activity</b>
3:30 p.m.	3D Design for a beginner Computer Aided Design (CAD) Types of Modeling Software DEMOS	Activity
<b>4:30 p.m.</b>	<b>Questions</b> <b>Preview of Day 2</b>	<b>Discussion</b>
<b>5:00 p.m.</b>	<b>End of Day</b>	



This project is funded through the Library Services & Technology Act, administered by the Institute of Museum and Library Services.

September

15

2015

# Make It at the Library 2015

## 2014 Cohort Libraries:

### Aberdeen District Library

- ◆ Stephanie Adamson

### Buhl Public Library

- ◆ Amanda Hatfield

### East Bonner County District Library

- ◆ Morgan Gariepy

### Jerome Public Library

- ◆ Linda Mecham

### Portneuf District Library

- ◆ Amanda Bowden

### Twin Falls Public Library

- ◆ Amy Mortensen

## 2015 Cohort Libraries:

### Bear Lake District Library

- ◆ Brandee Wells

- ◆ Mary Nate

### Burley Public Library

- ◆ Julie Woodford

- ◆ Linda Barney

### Caldwell Public Library

- ◆ Fiona May

- ◆ Abraham Valadez

### DeMary Memorial Library

- ◆ Ayessiah Rubio

- ◆ Shambry Emero

### Marshall Public Library

- ◆ Jamie Bair

- ◆ Kath Ann Hendricks

### North Bingham District Library

- ◆ Sessa Hammond

- ◆ Kaylene Christiansen

### Payette Public Library

- ◆ Deleice Ward

- ◆ Erin Haley

### Shoshone Public Library

- ◆ Clay Ritter

- ◆ Sarah Stowell

### Centennial High School Library

- ◆ Gena Marker

### Heritage Middle School Library

- ◆ Amy Armstrong

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### Adam Day—Twin Falls Public Library

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## Agenda

8:00 a.m. Light Breakfast and Networking

### 3D Design for a Beginner

8:30 a.m.	Computer Aided Design (CAD) Introduction to TinkerCAD Modeling strategies	<b>Discussion</b>
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### 3D Design for a Beginner

9:30 a.m.	Design: cube with hole Design: key chain/book mark Design/Print: box and lid	Activity
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### Lunch

12:00 p.m.	<b>Programming Ideas</b> <b>Afterschool Network—add in your programs</b>	<b>Discussion</b>
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### 3D Design for a Beginner (Continued)

1:00 p.m.	Computer Aided Manufacturing (CAM) Detailed look at CURA settings	Discussion
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2:00 p.m.	<b>Materials</b>	<b>Discussion</b>
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3:00 p.m.	Troubleshooting Hardware Firmware	
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4:00 p.m.	Evaluations Next Steps Plus/Delta	<b>Activity</b>
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4:30 p.m.	Load Cars	Activity
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