



3D Printing + CAD Resources

Lulzbot Mini + Taz 6

The Launch Pad has two Lulzbot 3D printers available to patrons for learning and entertainment purposes. The only costs are for the materials (10¢ per gram) and will be charged to your library card at the time of print completion. Anyone with an Illinois library card registered at the Indian Trails Library may submit a 3D print.



Submitting a 3D Print

If you are interested in getting something printed at the Launch Pad, files must be submitted through the *Submit a 3D Print Job* form on the Launch Pad webpage. All print job requests will be completed in the order they are received. Further instructions and stipulations are available through the form.

The screenshot shows the Indian Trails Public Library District website. At the top, there is a search bar and navigation links. The main content area features a banner for 'the LAUNCH PAD' with a photo of the interior. To the right, there are sections for 'UPCOMING EVENTS' and 'CONTACT INFORMATION'. A sidebar on the left contains various links, with a blue arrow pointing to the 'Submit a 3D Print Job' link.

Indian Trails Public Library District

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the LAUNCH PAD

UPCOMING EVENTS

Family Craft Night (Branch)
6:00 PM on Friday, April 14, 2017

Library Board Meeting
7:15 PM on Wednesday, April 19, 2017

Inglés para hispanohablantes (Branch)
6:00 PM on Friday, April 21, 2017

Public Sale of Library Items
10:00 AM on Saturday, April 22, 2017

[view the full calendar](#)

CONTACT INFORMATION

District Boundary Map
Contact Us
My Account
My Membership

HOURS
Monday-Friday: 9 am-9 pm
Saturday: 9 am-5 pm

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[Fines & Fees](#)
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[FAQ](#)
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[Drive-Up Window](#)
[The Launch Pad](#)

the LAUNCH PAD

Mission Statement
The Launch Pad is your space to explore, play, create and collaborate. Embark on a journey of discovery and possibility through hands-on learning where all you need is your imagination. Curiosity starts here.

Hours of Operation
Monday-Friday: 1-8 pm
Saturday: 10 am-4 pm
Sunday: 1-4 pm

[Launch Pad Equipment List](#)
These tools are available to use in The Launch Pad. Tools marked with an asterisk (*) are coming soon. Email us at dmsforms@itpld.org if you have questions about specific items on the list.

[Preferred Materials List](#)
If you'd like to use your own material in one of our machines, it must be pre-approved by a Launch Pad staff member before you arrive. Email us at dmsforms@itpld.org for approval and more information.

[Launch Pad Price List](#)
Looking for materials to build your next creation? Check this list to see what items are available for purchase for registered library cardholders.

[Book a Maker Form](#)
Interested in earning your independent working certification on our embroidery, sewing or vinyl cutter machines? Or maybe you have a project idea, but just need some guidance. Simply fill out this form and one of our Makers will reach out to you to book an appointment to work together.

[Submit a 3D Print Job](#)
Use this form to send us your 3D print job file. Follow the instructions on the form, and we'll get your print started for you. We can't wait to see what you've created!

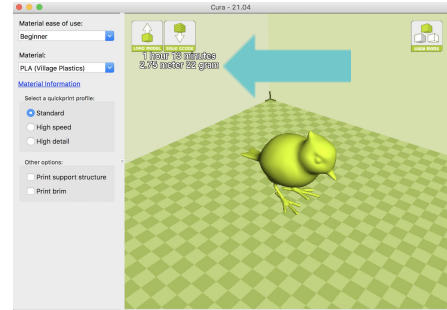
Contact Us
Email our Launch Pad staff at dmsforms@itpld.org or call 847.279.2277.

Basics

- Single color prints
- Prints up to 11" x 11" x 9.8"
- Up 10 business days to complete
- Max. print time: 10 hours
- 1 print per library card at a time

Material

If you want an estimated cost prior to submitting your print, download the Cura 3D Printing software (<https://www.lulzbot.com/cura>). After uploading your design, the estimated weight is displayed in the top left corner. This estimate may vary slightly if necessary support structures are added to successfully printing overhanging elements in your design.



Material	Description	Price per gram
PLA (polylactic acid)	biodegradable plastic from plant-based sources	10¢

File Types

- **.obj**
- **.stl**

Software

- AutoCAD
- Inventor
- Solidworks
- Blender*
- Rhinoceros 3D
- Tinkercad*
- Fusion 360*
- SketchUp*
- ZBrush

Online 3D Printing Communities

- Thingiverse*
- Pinshape*
- All3DP*

Learning Resources

Lynda.com (a library provided database)
 Tinkercad.com tutorials + projects

* free open-source options