



TOMBALL
INNOVATION LAB

HARRIS
COUNTY
PUBLIC
LIBRARY | **LSC-Tomball**
Community
Library

your pathway to knowledge

An innovative vision...

- We wanted to bring new technologies to our patrons
- Maker spaces are a big part of libraries
- Can we bring such a thing to Tomball?

YES! But we can do more!

“The Community Innovation Lab at the Lone Star College – Tomball Community Library is just one of many excellent programs available to residents of all ages. The Greater Tomball Area Chamber of Commerce delights in supporting this initiative and is proud to partner with Harris County Precinct 4, Harris County Public Library, LSC-Tomball and many other community leaders and businesses. We are excited to be a part of a program focused on fostering and developing creativity and critical thinking for the future leaders of our community.”

Bruce Hillegeist, President.

**Greater Tomball Area
Chamber of Commerce**

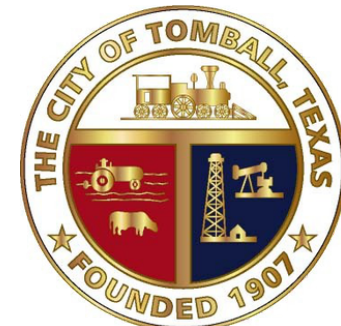
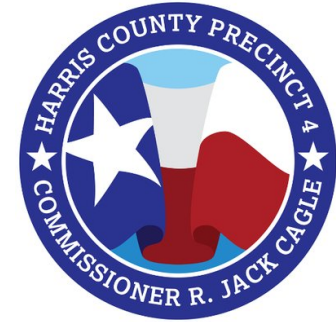
Those with drive...

The organizations worked together that made this happen:

- Harris County Public Library
- Lone Star College – Tomball
- Harris County Precinct 4

Local stake holders joining in:

- HCA-Houston Healthcare Tomball
- Greater Tomball Area Chamber of Commerce
- City of Tomball
- Tomball ISD
- Tomball Economic Development Corporation

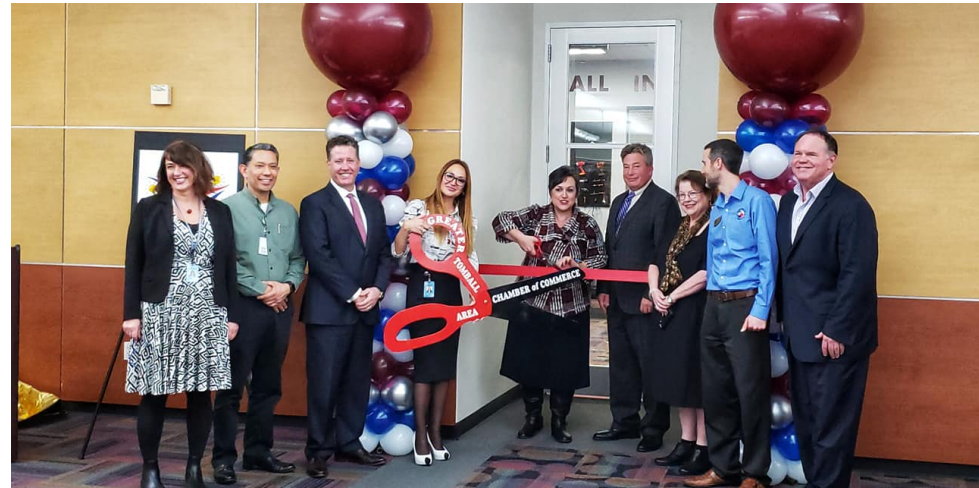
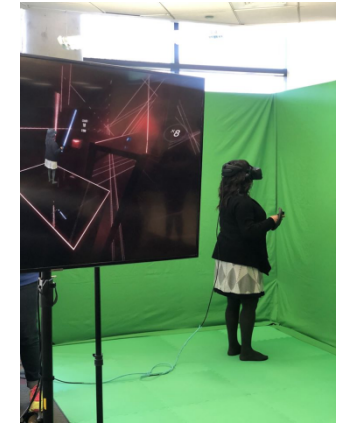


Engaging Our Community. Creating Higher Impact...

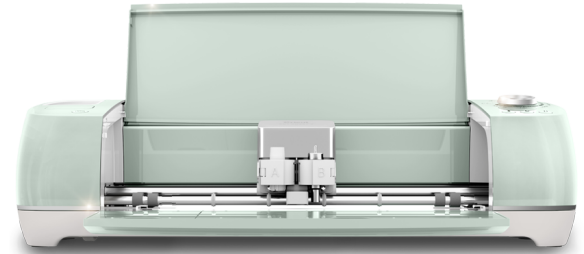
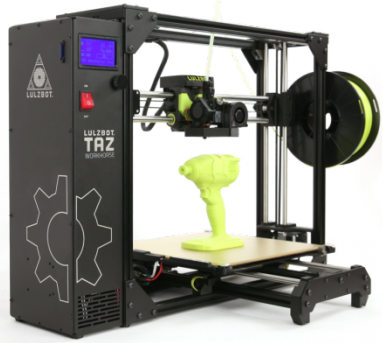
Logo Contest



Grand Opening. January 28, 2020



The tools to foster your spark...



Interaction for growth...

Tomball Innovation Lab Equipment

Botley Coding Robot kits (4x): Botley the Coding robot is here to introduce coding in an easy, friendly way. Ages 5+.

Brother Strong & Tough Serger: Trims the seam and encloses the seam allowance or edge of the fabric, inside a thread casing, all in one step. Get professional results on everything from heavy duty fabrics to lightweight knits.



Cricut Explore Air 2: This cutting machine can handle a wide array of materials, and the design software is simple to use. Bring your own material, and cut to your heart's desire.



LEGO WeDo 2.0 Robotics kits (4x): LEGO Robotics kits great for learning coding through building and experimentation. Ages 7+.

Oculus Go VR Headsets (4x): These standalone headsets allow users to explore virtual reality with no wires or computers necessary.

Dremel Micro (2x) Cordless rotary tool with LED light offers the perfect combination of size, ergonomics, and power for precise and light-duty DIY projects.



Sublimation Heat Press: Print out a design on sublimation paper and apply it to a t-shirt, hat, or mug.

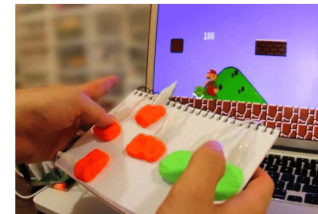


Lulzbot Workhorse 3D Printer: A new sheavy-duty 3D printer from Lulzbot. sThis machine has an auto leveling sheated bed that can print in an area of s11"x11"x11.2".



Tomball Innovation Lab Equipment

Makey Makey kits (4x): By mimicking a keyboard and mouse the Makey Makey lets you control any computer program with everyday objects.



Monoprice Maker Select v2: This smaller 3D printer can handle a print size of 8"x8"x7" using 1.75mm PLA.



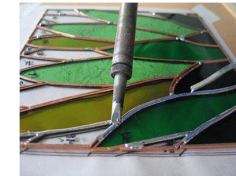
Ozobot Bit Robotics kits (4x): Art meets tech with Bit, the bot you code with colors. Color Codes are short sequences, made with markers or stickers, that command Bit to speed up, spin, zig zag, and more!



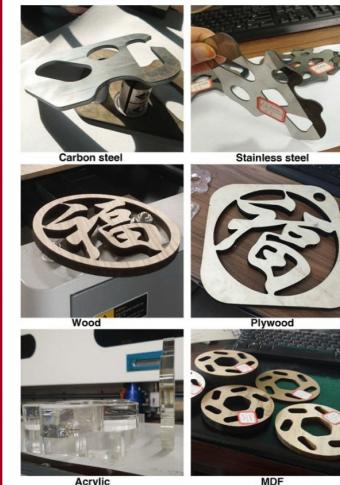
Raspberry Pi 3 (3x): Credit card sized computers that can be used to code, or for fun. Ours run Retropi which can be paired with Makey Makey controllers.

Singer Heavy Duty Sewing Machine: A heavy-duty metal frame and powerful motor make this machine a true workhorse.

Soldering Iron (2x): These two kits are available to the public to solder wires or cabling for their personal projects.



Full Spectrum Muse 40w Carbon Laser: This laser cutter can vector cut through a variety of materials, as well as raster.



Learning exercise (schedule of events - sample)...

February 2020

Mon	Tue	Wed	Thu	Fri	Sat
					01
03 Computer Basics 6:30-8:30pm	04 VR Tours 4:30-6pm	05 Microsoft Word 10am-12pm	06 Tech Thursday: LEGO WeDo 2.0 5-6pm Media Conversion 6:30-8:30pm	07	08 Laser Cutter Orientation 2-4pm
10 Files & Folders 6:30-8:30pm	11 3D Object Scanning 4:30-6pm	12 Microsoft PowerPoint 10am-12pm	13 Choo Choo w/VR 1:30-2:30pm Cricut Orientation 6:30-8:30pm	14	15
17 Internet & eMail 6:30-8:30pm	18 Teen Tech Takeover 4:30-5:30pm	19 Discover 1:30-2:30pm	20 3D Printer Orientation 6:30-8:30pm	21	22
24 Microsoft Excel 6:30-8:30pm	25 Soldering Basics 4:30-6pm	26 Android Devices 10am-12pm	27 Heat Press Orientation 6:30-8:30pm	28	29

Learning exercise...

- Orientations explain the safety requirements and proper use of our machines. These are required for any use.
- Tours are programs that showcase specific equipment, usually involving a demonstration. Tours for your own group can be requested by contacting the library.
- 1-on-1 Sessions can be scheduled to showcase and train on equipment. Please contact Loyd Huhn for scheduling (Loyd.Huhn@hcpl.net).
- Reservations on equipment are available after attending an orientation. You can reserve time through our Beanstack webpage.
- An Open Lab is an open block of time where patrons and staff can come in and use the equipment at their leisure (assuming they've been oriented, and a short project).

Benefits for the community, for your company...

- Open access to new technologies. The Tomball Innovation Lab provides access to all our equipment to our patrons and partners.
- Informed staff. LSC -Tomball Community Library staff will be on hand to orient you and assist during your time on our equipment.
- Expand your offerings. With the Tomball Innovation Lab you may be able to expand to offerings you couldn't before.
- No cost to you. HCPL and the Tomball Innovation Lab partners are dedicated in bringing technologies to our patrons and partners at as little cost as possible. You never pay for use.

"The Tomball Economic Development Corporation is excited to partner on this endeavor. The Community Innovation Lab will provide entrepreneurs, startups, and small businesses with access to resources, tools, and equipment that will generate new business activity within the community. The Lab will deliver a space that nurtures research and development, innovation, and new product development while encouraging learning and collaboration. We are so fortunate to have partners that work together to meet the needs of the community and provide resources that nurture business growth."

Kelly Violette, Executive Director.
Tomball Economic Development Corporation

How Can an Innovation Lab Help Your Business...

Innovation Labs are places for creation, idea exploration, and learning. The Tomball Innovation Lab hopes to foster those ideals with the help of our knowledgeable staff. Start ups and established businesses alike can benefit from the offerings of our lab.

Many labs across the globe are helping start ups take their first steps towards turning their idea into reality. Our tools can help those who are new to business ownership jump in and start creating quality prototypes and finished products without the need to drastically invest in equipment.

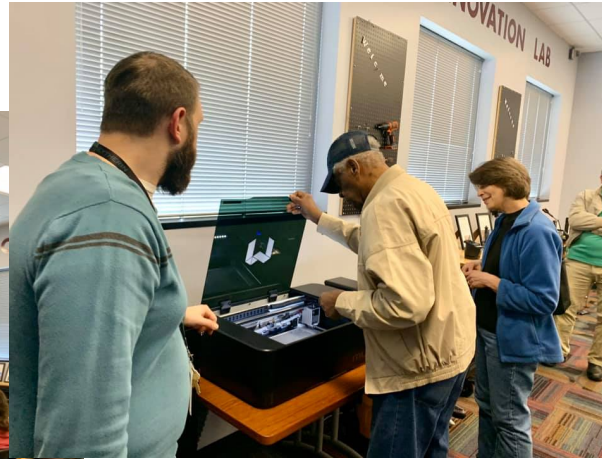
Likewise, we also provide help to those business who may be looking into newer technologies to reach the needs of their customers, or understand a new direction for creation.

Real World Examples...

- Rapid prototyping with 3D printing – Create a small or medium scale model in plastic that can be used for testing or replacement parts.
- Vinyl Cutting decals locally – Don't rely on online services for your window lettering. Cut your own on our vinyl cutter.
- Precision Laser Cutting – Engrave or cut on a variety of materials with our Full Spectrum laser. Create your own signs or plaques.
- A place to create – Utilize our space for your project creation. Our lab is open to you to foster your spark.



First Innovation Lab activities...



Opportunities to expand...

We are always looking for partners who wish to help expand the offerings at the Tomball Innovation Lab.

If you would be interested in helping us expand or have more questions:

please contact Janna Hoglund at Janna.Hoglund@hcpl.net

Questions?

THANK YOU!