

## Program Funding/Donations:



**Private  
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## Suppliers:



One of the trends in education today is Science, Technology, Engineering, Arts, and Mathematics (STEAM) education. STEAM is successful in schools all around the world to better teach academic and life skills in a standards-backed, realistic-based, personally relevant exploratory learning environment. The *InnovationHub*, which opened in the fall of 2014 at Upper St. Clair High School, is an inclusive facility comprised of specialized equipment and software that students use to engage in problem-based learning and hands-on fabrication, bridging between the concepts taught in traditional classrooms and real-world applications. The *InnovationHub* is pivotal to the success of two exciting new initiatives: 1) the establishment of a globally connected MIT Fab Lab, a worldwide MIT program; and 2) the creation of SHOP@USC.

SHOP@USC (**S**howing **H**ow **O**ppportunity **P**ays @ USC) – a pioneering, new student-run business which is housed within the *InnovationHub*, is a revolutionary, new way of teaching STEAM, business skills, and life skills.

The students working in SHOP@USC will be able to produce a variety of items, which will be introduced for school-wide sale as the individual item produced is mastered and determined to be high quality merchandise. The goal of SHOP@USC is to have a self-sustaining USC Spirit Shop storefront and/or kiosk in the High School that sells USC products with an online component.

For more information, please contact Michelle Zirngibl, SHOP@USC Coordinator, at (412) 833-1600 ext. 2309 or [mzirngibl@uscsc.k12.pa.us](mailto:mzirngibl@uscsc.k12.pa.us)

To place an order, please contact SHOP@USC at (412) 833-1600 ext. 2474 or [SHOP@uscsc.k12.pa.us](mailto:SHOP@uscsc.k12.pa.us)

## **SHOP@USC Machines and Capabilities**

- **Laser Engraver:** Cuts/Engraves wood, plastic, glass, leather, rubber, etc.
  - **Example projects:** Keychains, etched vases, refrigerator magnets, iPhone engraving, etc.
  - **Our Machine:** Epilog Fusion 40 and Zing
- **Wide Format Printer:** Prints on and cuts vinyl.
  - **Example projects:** Stickers, banners, labels, backdrops, iron-on decals, etc.
  - **Our Machine:** Mimaki CJV30-130 Solvent
- **Vinyl Cutter:** Cuts vinyl.
  - **Example projects:** Stickers and iron-on decals.
  - **Our Machine:** Roland Camm-1 Servo (GX-24)
- **Digital Printing Press:** High quality “copy machine”, folds, staples, copies, booklet function.
  - **Example projects:** Day planners, calendars, pamphlets, programs, greeting cards, etc.
  - **Our Machine:** Xerox 700 Digital Color Press
- **DTG (Direct-to-Garment) Printer:** Prints directly on T-shirts and other fabrics in full CMYK color.
  - **Example projects:** T-shirts, aprons, quilts, grocery totes, etc.
  - **Our Machine:** Kornit Breeze w/two drawer dryer
- **FastBack Binder:** Heat-activated, automatic fabric binding machine (think composition book).
  - **Example projects:** Notebooks, journals, calendars, yearbooks, etc.
  - **Our Machine:** Powis Fastback 20
- **Cricut Machine:** Scrapbooking machine. Cuts and draws on cardstock, vinyl, fabric, and leather.
  - **Example projects:** Greeting cards, gift card holders, scrapbooks, etc.
  - **Our Machine:** Cricut Explore Air
- **Commercial Paper Cutter:** Programmable paper cutter.
  - **Example projects:** Greeting Cards, day planners, programs, anything that requires paper cutting/trimming
  - **Our Machine:** Triumph 6660 w/Infrared Safety
- **Coil Binding Punch:** Punches holes for coil binding (oval die).
  - **Example projects:** Notebooks, day planners, calendars, booklets, etc.
  - **Our Machine:** BindRite HD-7100 w/oval die
- **Coil Inserter/Winder:** Winds the coil into the punched holes.
  - **Example projects:** Notebooks, day planners, calendars, booklets, etc.
  - **Our Machine:** Akiles Finish @ Coil –M
- **Heat Press:** Heats and presses iron-on decals onto fabric.
  - **Example projects:** T-shirts, aprons, quilts, grocery totes, etc.
  - **Our Machine:** Stahls Hotronix
- **Laminator:** Hard laminator.
  - **Example projects:** Notebook and day planner covers, dry-erase calendars, menus, etc.
  - **Our Machine:** Akiles ProLam Ultra
- **Folding Machine:** Folds paper in several configurations (tri, zee, half, etc.). Can also score and perforate.
  - **Example Projects:** Greeting Cards, pamphlets, tear-away tickets, etc.
  - **Our Machine:** Martin Yale 959 AutoFolder
  - **Forthcoming Acquisition:** MBM 1500S Automatic Programmable Air Suction Tabletop Folder