**[Physics Machine Shop](http://iil.physics.harvard.edu/)**

**URL:** <http://iil.physics.harvard.edu/>

**Facility Manager/Instructor:** Stan Cotreau

**Description:**

*Square Footage:* N/A

*Facility Location:* 32 Lyman Laboratory, 17A Oxford Street

The SEAS / Physics Instructional Instrument Laboratory is located in the basement of Lyman Lab and is set up primarily as a teaching shop. The Lab is a state-of-the-art facility, complete with computerized machine tools and full arc welding capabilities. The shop is open 24 hours for those in the Physics Department and SEAS who have proven competency in a machine shop setting, or have taken and passed the basic machine tool operation class. In addition to the basic class, the Shop offers classes on advanced machine tool operation, 2 axis cnc programming, 3 axis cnc programming, soldering, welding, brazing, and blueprint reading and interpretation.

**Machinery List:**

* 3D Printer
* 2 Trak Milling Machines with 2 axis Prototrak Control
* 2 Bridgeport Milling Machines with 2 axis Prototrak Control
* 1 Trak Milling Machine with 3 axis AGE Control
* 2 Vertical Band Saws
* 1 Horizontal Band Saw
* 1 Jewelers Lathe
* 3 Small/Medium-sized Toolroom Lathes
* 1 Large Toolroom Lathe
* 1 CNC Trak lathe
* 1 Kern laser cutting machine with metal cutting capabilities
* 5 Drill Presses
* 1 Surface Grinder
* 1 Glass Saw
* 1 Lincoln “TIG” Welder
* 1 Lincoln MIG welder
* 2 Small Sheet Metal Punches
* 1 Hydraulic Greenlee punch set
* 2 Small Pan Brakes
* 2 Small Sheet Metal Shears
* 1 Orbital Welding System
* 1 Two-Ton Hydraulic Press
* 1 Miniature Drill Press with Video Display
* 1 KERN 150W laser cutter