Services

Brainstorming
The shop will work with you to explore alternate designs and to insure you have the functionality you need.

Design
The shop will develop an initial drawing of your project and make changes as necessary.

Fabrication
The shop will fabricate your device to high tolerance, using state-of-the-art machine tools and materials.

Repair
The shop can repair laboratory devices even if they did not originally construct them.

No project is too big or too small

Please call us to set up a consultation appointment.

Machine Shop
Design, fabrication and repair of novel instruments and apparatus for research

MINS Machine Shop
21 Leidy Laboratory Building
Fred C. Letterio
letterio@mail.med.upenn.edu
http://www.med.upenn.edu/machineshop
215.898.7127

If you can tell us what it needs to do, we can build it!
Overview

The Machine Shop serves the entire Penn community by designing and building novel instruments and apparatus for research, to your specifications.

The shop has been serving a wide range of laboratories in the Penn community for 50 years.

Costs are estimated before work is begun. Please contact us to arrange a consultation the next time you are considering a project which requires custom devices or repairs to existing equipment.

Materials commonly used

- Plexiglas
- Polycarbonate
- Teflon
- Stainless steel
- Brass
- Aluminum
- Exotic materials

Recent jobs include

- Subretinal injectors
- Multiple tetrode manipulator
- Mouse treadmill for awake physiology
- Repair to sliding microtome
- Optical bench/confocal microscopes
- Heated microscope stages

From big to small, we design and build it all.

Examples of completed projects

- Dog “Y” maze - outside
- HDR stereo display
- Ozone chamber
- Muscle freeze fracture (7ms)
- Mouse stereotaxic device
- Dog ERG testing apparatus
- Isolated mechanics muscle chamber
- Stereotactic microinjector
- Cat rotary prism
- Primate head holder