

Services

Brainstorming

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

Design

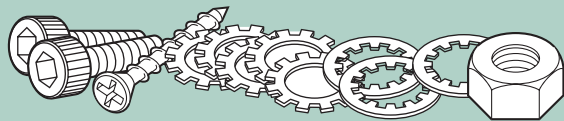
The shop will develop an initial drawing of your project and make changes as necessary.

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.



Mahoney Institute
of Neuroscience

MINS Machine Shop

21 Leidy Laboratory Building

Fred C. Letterio

letterio@mail.med.upenn.edu

<http://www.med.upenn.edu/machineshop>

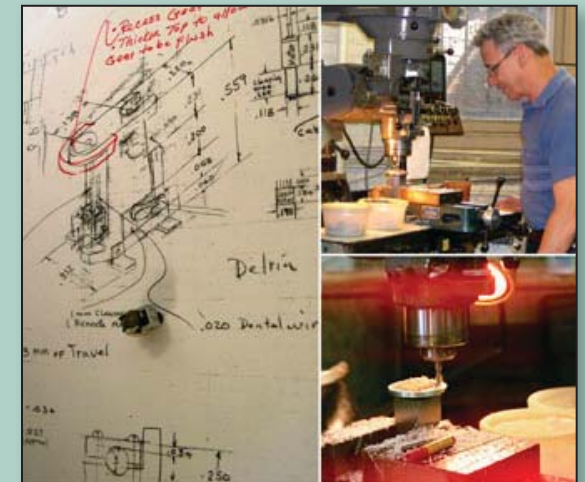
215.898.7127



Mahoney Institute
of Neuroscience

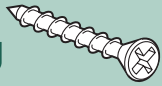
Machine Shop

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



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



15'

Dog "Y" maze - outside



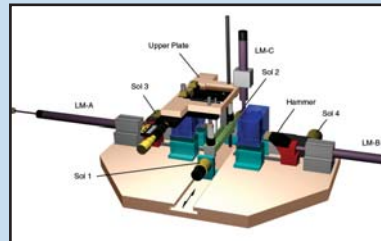
10'

HDR stereo display



3'

Ozone chamber



24"

Muscle freeze fracture (7ms)



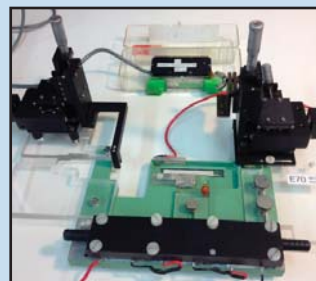
20"

Mouse stereotaxic device



18"

Dog ERG testing apparatus



16"

Isolated mechanics muscle chamber



8"

Stereotactic microinjector



3"

Cat rotary prism



1.25"

Primate head holder