



# PennState



## ENGINEERING SHOP SERVICES

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102 Engineering Services Building  
(next to The Learning Factory, behind the Bus Depot)  
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www.engr.psu.edu/ess

Dedicated to supporting the research needs of Penn State engineering, Engineering Shop Services provides a full range of machining and welding capabilities to support research and instructional needs for the college.

Engineering Shop Services, supported by the College of Engineering, staffs skilled machinists and welders who are dedicated to getting your job done on time, on budget, and on spec.



### ENGINEERING SHOP SERVICES OFFERS:

- A wide selection of machines and talents
- A large inventory of materials
- Custom engineering and R&D capabilities
- The ability to complete rush jobs (sometimes the same day!)
- Project pickup and delivery

### SERVICES AVAILABLE:

- CAD/CAM
- Electrical Discharge Machining
- Turning
- Milling
- Welding
- Grinding
- Woodworking
- Sandblasting
- Sheet Metal Fabrication
- Rockwell Hardness Testing

FULL LIST OF EQUIPMENT

#### CNC Machining Centers

- Artran Sapphire AMCU1270
- Haas ES5 5 axis
- Fadal VMC4020 4 axis
- Hardinge VMC 1000 II 3 axis
- Hurco BMC-40 3 axis

#### CNC Knee Mills

- Bridgeport EZ Trak SX
- Bridgeport Centurion I Milltronics
- Bridgeport V2XT
- Wells Index 320 system 3
- 2X Bridgeport Series I CNC

#### Manual Knee Mills

- Bridgeport w/ Millvision DRO

#### CNC Lathes

- Daewoo PAN20 20" cnc Toolroom lathe
- Hardinge Conquest T42 12" slant bed with live tooling

#### Manual Lathes

- Lodge & Shipley 20"
- Sheldon 15
- Leblond Regal
- Enterprise 1550
- Monarch 16C (18.5x30)
- Monarch 12CK (18.5x30)

- 2x Monarch 10EE (12.5x20)
- Southbend Heavy 10
- Sheldon EXL 56

#### Precision Grinding

- Chevalier FSG-1236AD Surface Grinder
- Brown & Sharpe S10 Surface Grinder
- Brown & Sharpe #13 Tool and Cutter Grinder

#### Electronic Discharge Machining

- FANUC Robocut 1B Wire EDM
- Agie Elox Mondo 20 Sinker EDM

#### Water Jet

- Ward Jet Z-45 54"x48"x8"

#### Sawing

- WF Wells 15"x17" drop saw
- 2x Tannewitz 36MS DI-Saw

#### Wood Working

- Table Saw Delta Rockwell
- Radial Arm Saw Delta Rockwell
- Jointer Delta Rockwell
- Planer 20" Enco
- Vertical Bandsaw Delta Rockwell
- Shaper Delta Rockwell