Machine Shop

What We Do

The Machine Shop is a full-service research shop that provides machining, assembly and fabrication services in support of research projects for Cullen College students, faculty and staff.

Services Available

- Professional machining and welding services
- Design assistance (consultation, CAD drawing)
- Stock, fasteners, hand and power tools are available

Operating Policy

- You must supply detailed drawings of the part(s) you want fabricated, complete with quantity, material, and tolerances as needed.
- Customer can supply material or shop will supply the material at cost.
- Cost center/ speed type # is required for billing.

Rates

- UH users: $35/hr
- Non-UH Users: $54.25/hr
**Hours and Location**

Monday - Friday  
6:30 a.m. - 3:00 p.m.

Location: UH Energy Research Park  
Building 7, Suite 110  
5000 Gulf Freeway  
Houston, TX. 77023  
[Driving Directions](#)

**Equipment Available**

- Bridgeport style vertical knee mills  
- Horizontal mill  
- Engine lathes (capable of swinging up to 20" diameter and 6" in length)  
- 120 Ton Scotchman Hydraulic Iron Worker (with punching and shearing capabilities)  
- Tig and stick welding as well as plasma cutting and brazing/soldering abilities  
- Haas CNC Vertical Machining Center with 40" X 20" X 25"(X,Y,Z) travel, 20 Tool Umbrella Carousel, utilizing the latest Cam Software from Espirit  
- **New!** Toolroom Mill with Tool Changer; 40" x 20" x 16" (1016 x 508 x 406 mm), 40 taper, 7.5 hp (5.6 kW) vector drive, 6000 rpm, full enclosure, 10-station automatic tool changer, Visual Programming System, power-failure detection module, 1 GB program memory, memory lock keyswitch, 15" color LCD monitor and USB port and 20-gallon (76 liter) flood coolant system.  
- **New!** CNC Toolroom Lathe; 16" x 30" (406 x 762 mm) max capacity, chip enclosure, 20" (508 mm) swing, 10 hp (7.5 kW) vector drive, 1800 rpm, A2-6 spindle, Intuitive Programming System, coolant pump, 1 MB program memory, memory lock keyswitch, air blow gun, 15" color LCD monitor and USB port. No workholding, toolpost, or toolholders included

**Photos**

Unable to view the above slideshow? [Click here to view the photo album](#).

**Contact Us**

Michael Young  
Phone: (713) 743-4411  
E-mail: mryoung [at] central [dot] uh [dot] edu

© University of Houston Cullen College of Engineering, Department of Electrical and Computer Engineering