

# ME Prototype Shops

MECHANICAL ENGINEERING  
UNIVERSITY of WASHINGTON

THE MECHANICAL ENGINEERING DEPARTMENT MAINTAINS FABRICATION AND TESTING EQUIPMENT FOR STUDENTS AND RESEARCHERS. THESE RESOURCES ALLOW STUDENTS TO PUT INTO PRACTICE CONCEPTS LEARNED IN THE CLASSROOM.

## QUICK FACTS

- The ME Prototype Shops serve users from over 30 UW departments.
- Users spent over 16,000 hours in the ME Prototype Shops during the 2016-2017 school year.
- The ME Prototype Shops are staffed by professional engineers, machinists, and technicians. The shop staff train users, keep equipment in working order, and consult on projects.
- In the ME Prototype Shops, users take their ideas through the entire process of design, prototyping, testing, and final production.
- Equipment available to users in the ME Prototype Shops includes 9 CNC machines, 2 load frames, 7 3D printers, and over 50 other machines.
- The ME Prototype Shop staff believe that people learn best by doing- whether the answers & skills they're seeking are for research or classwork.

## MACHINE SHOP

In the ME Machine Shop, conversational mills, manual lathes, 3D printers, and hand tools are the workhorses of the beginner fleet. For more advanced users, the machine shop offers CNC mills and lathes, welding equipment, a sheet metal laser cutter, a waterjet cutter, and many other tools.

## MECHANICAL TEST LAB

The Mechanical Test Lab has facilities for quasi-static load testing, cyclic fatigue testing, and a drop tower for impact testing. Also available are a variety of extensometers, load cells, and grips.

## COMPOSITE SHOP

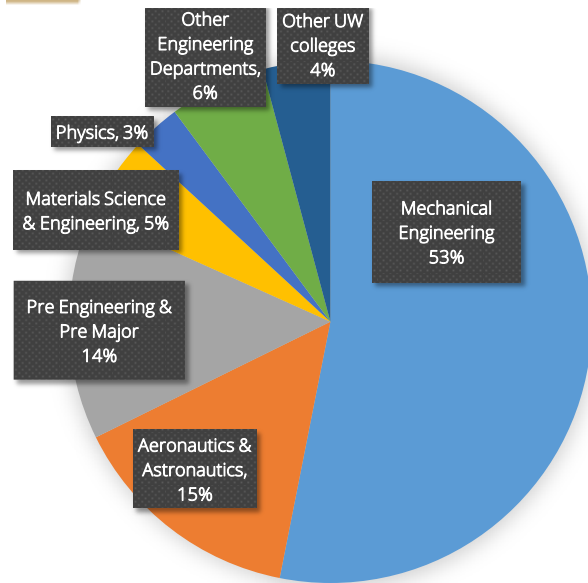
The ME Composite Shop provides a space for layups and composite manufacturing equipment including an autoclave, heated platen press, and CNC ply cutter.



## SERVICE CENTER

- Starting in fall 2017, the ME Prototype Shops will operate as a service center.
- The internal UW rates are at-cost and the ME department is committed to maintaining affordable rates for the UW community.
- The ME Prototype Shops are available free of charge to all ME students for work related to courses or ME-sponsored teams. The ME department is currently working with heads of other departments and the College of Engineering to secure free access for all undergraduate students.

## ME PROTOTYPE SHOPS USAGE 2016-2017



## FALL 2017 RATES

**MACHINE SHOP:** \$12/hr  
**COMPOSITES SHOP:** \$17/hr  
**MECHANICAL TEST LAB:** \$22/hr  
**LAB ENGINEER (STAFF CONSULTING):** \$38/hr  
**VACUUM BAG KIT:** \$22/kit  
**STRAIN GAGE KIT:** \$22/kit

Rates listed here are for users with UW budget numbers

## CONTACT ME SHOPS

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