



# MACHINE OPERATION CHARGES

## Directly School Related

- Examples
  - o Summative Assessment
  - o Projects set by professors with a deadline
  - o **Must** be submitted for assessment
  - o Cannot be continuation of a project (research)
  - o Example Project for class demonstration (Faculty)
  
- Payment Process
  - o It will be a requirement to sign a disclaimer every use ensuring that honesty is maintained.
  - o If the purpose of work is misrepresented, all future use from that point forward will be charged at 'self-directed research or personal project rates'
  - o If necessary Professors may be contacted

## Self-Directed Student Research

- Examples
  - o Independent Study
  - o Folio Related Work
  - o Research (can I do this, how does this work)
  - o Not Production (cannot do multiples)
  - o Not for profit
    - Cannot be paid for by outside sources
    - Cannot contain logos or business information
  
- Payment Process
  - Charged to Vol Card
    - Payment processed before use

<b>Student/Faculty Directly school related</b>	
(Class Projects, assessment items)	
<b>CNC Router</b>	No-Charge
<b>3D Printing</b>	
FlashForge	No-Charge
Zcorp Printer	\$2.85/cubic inch
Dimension Abs Printer	\$2.5/cubic inch
<b>Abrasive Waterjet</b>	No-Charge

<b>Self-Directed Student Research</b>	
(subsidized use)	
(Any work other than COAD class projects, no production runs)	
<b>CNC Mill &amp; Router</b>	\$6/hour
<b>3d Printing</b>	
Zcorp Printer	\$4.25/cubic inch
Dimension Abs Printer	\$3.75/cubic inch
<b>Abrasive Waterjet</b>	\$18.00/Hour
<b>CNC Metal (HAAS)</b>	\$15/hour



# MACHINE OPERATION CHARGES

## Faculty Research

- Example
  - o Design Build (Prototyping & Production pieces)
  - o Faculty research
  - o Professional Development (Licensure requirements)
  
- Payment Process
  - o Faculty member using Vol Card
  - o Departmental charge
    - Requires approval from department head or Budget leader
    - Must have completed, approved form before work will be initiated.

## College Projects

- Examples
  - o CoAD Promotional Products
  - o Miscellaneous College Projects
  - o Projects for Student and Faculty Organizations
  - o CoAD Building Projects
  - o Design Build Production Pieces
  
- Payment Process
  - o Departmental charge
    - Requires approval from department head or Budget Director
    - Must have completed, approved form before work will be initiated.

<b>Faculty Research</b> (subsidized use)	
(Research projects, Design Build, Faculty research, promotional products)	
<b>CNC Mill &amp; Router</b>	\$6/hour
<b>3D Printing</b>	
Zcorp Printer	\$4.25/cubic inch
Dimension Abs Printer	\$3.75/cubic inch
<b>Abrasive Waterjet</b>	\$18.00/Hour
<b>CNC Metal (HAAS)</b>	\$15/hour

<b>College Projects</b> (subsidized use)	
(CoAD Building Projects, Design Build, promotional products)	
<b>CNC Mill &amp; Router</b>	\$8/hour
<b>3D Printing</b>	
Zcorp Printer	\$4.25/cubic inch
Dimension Abs Printer	\$3.75/cubic inch
<b>Abrasive Waterjet</b>	\$24.00/Hour
<b>CNC Metal (HAAS)</b>	\$15/hour



# MACHINE OPERATION CHARGES

## Personal Projects

- Example
  - o Projects for Personal Applications
  - o For off campus purpose (Non-CoAD use)
  - o Not Production (cannot do multiples, <4x )
  - o Not for profit
    - Cannot be paid by outside sources
    - Cannot contain logos or business information
- Payment Process
  - o Vol Card

## Other UTK Departments-

- Categories
  - o Other UTK departments
- Payment Process
  - o Departmental Charge or Vol Card
    - Payment processed before use
    - Written Approval from Florence

<b>Personal Projects</b>	
<small>(Cost +Lab Assistant Labor)</small>	
Faculty/Staff & Students Personal projects)	
<b>File set-up &amp; Machine Programming</b>	\$10/hour
<b>CNC Mill &amp; Router</b>	\$18/hour
<b>3d Printing</b>	
Zcorp Printer	\$6.7/cubic inch
Dimension Abs Printer	\$6.7/cubic inch
<b>Abrasive Waterjet</b>	\$60.00/Hour
<b>CNC Metal (HAAS)</b>	\$25

<b>Other UTK Departments</b>	
<small>(cost + labor + expenses)</small>	
(Work for other departments in the UTK system,	
<b>File set-up &amp; Machine Programming</b>	\$15/hour
<b>Router</b>	\$30/hour
<b>3d Printing</b>	
Zcorp Printer	\$8/cubic inch
Dimension Abs Printer	\$8/cubic inch
<b>Abrasive Waterjet</b>	\$80.00/Hour
<b>CNC Mill</b>	\$40/hour



# MACHINE OPERATION CHARGES

## Fab Lab Analogue Equipment

If a project is to be made at the Fab Lab using the Analogue equipment, it must be of some educational experience or benefit to the college. Personal projects are accepted, but work cannot be completed by another party. For instance, an individual cannot pay a student/staff member to use the shop to fabricate items for personal use.

A need may arise where other departments within the UTK system need items fabricated with our range analogue equipment, charges are to cover labor of the staff member completing this task and also any consumables used.

<b>Analogue Equipment</b> (consumables + Labor)	
(Work for other departments in the UTK system, faculty/staff commissioned pieces for profit)	
<b>Woodshop</b>	\$30
<b>Metalshop</b>	\$35



# MACHINE OPERATION CHARGES

Charges listed included the operational expenses of the machines and labor, some categories may be discounted and calculated to % of that amount.

Operational expenses include the cost of consumables such as garnet, tooling, filament/print media, wearing parts.

Labor is to assist with file preparation, programming of a machine, machine preparation and supervision while machine is operational (additional supervision may still be required).

**Charges do not include-** Supply of material (raw stock), clean-up, fasteners, post processing (surface/ edge finishing, painting).

Unless otherwise listed, **all work is charged/minute** and must be prepaid using means listed above.

## Priority of machine access

- College related research
- **directly school related exercises**
- Faculty & Self-Directed Student research
- Personal Projects
- Other UTK Departments

At any point and without notice **personal projects** and **other UTK departments** can and will be rescheduled due to a request for one of the other categories listed.

All equipment use must be scheduled, there is no **'drop in'** use of equipment.

Scheduling must occur by guidelines contained within the **equipment policy**.

The Fab Lab is not a production facility, all work completed at the lab must be research and/or prototyping work. Multiplies greater than 4 cannot be produced, in the event of a production run, outsourcing will need to occur.

For student and faculty class, research and personal access a minimum of **'1 working days'** notice is required.

Promotional products and **other UTK departments** require a minimum of **'5 working days'** and with approval from the Dean or Directors from the College of Architecture and Design.