



BeAM Assets by Makerspace Location

BeAM@Murray Hall

Digital Fabrication:

3D printing:

- 1 Formlabs Form 3B Complete
- 2 LulzBot Taz6 3D Printers
- 2 LulzBot Mini 3D Printers
- 18 Ultimaker 3 3D Printers
- 2 Ultimaker 3 Extended 3D Printers
- 1 Ultimaker S3 3D Printer
- 1 PRUSA Mini Printer

Laser Cutting:

- 2 Universal Laser Systems 60 watt Laser Cutters (18" x 32" bed)

Vinyl Cutting:

- Roland 24" vinyl cutter (Camm-1 Servo, GX-24)

Electronics:

- 8 mobile soldering stations complete with: soldering iron, tools, mat, solder
- 2 complete electronics workstation with large, lighted work surface, power supply, function generator, breadboard station, digital oscilloscope, tools, and consumables
- Equipment to outfit 10 more electronics workstations for a class or lab
- 1 Microcontroller cart with Arduino Uno boards

Metalworking:

- Jet 15" Variable Speed Floor Drill Press (model J-A5816)
- Jet 20" Floor Drill Press (model J-2550)
- Grizzly 19" 3HP Extreme Series Bandsaw (model G0514X2)
- Jet 14" Wood/Metal Vertical Bandsaw (model J-8201VS)
- Evolution Rage 3-DB 10" Multipurpose TCT Sliding Miter Saw (model RAGE3DB255)
- Baldor Grinder Buffer 1/3 HP
- Eastwood Slip Roll
- Jet Benchtop Belt/Disc Sander(model E-MILL 3VSII)
- Baldor Buffer and Grinder
- Jet 20" Drill Press
- Grizzly 19" Bandsaw
- Arbor Presses
- Turret Punches

Wood Working:

- Grizzly Vacuum Sanding Table (model H2936)
- Grizzly Oscillating Spindle Sander (model G1071)
- Powermatic 18" Variable Speed Drill Press (model PM2800B)
- DeWalt 20" Heavy Duty Variable Speed Scroll Saw (model BD31A)
- Kreg Foreman Semi-Automatic Pocket Hole Machine (model DB210)
- Rikon Combination Belt/Disc Sander (1" Belt/5" Disc, model 50-151)
- Festool Kapex Sliding Compound Miter Saw (model KS 120 EB)
- Work Sharp Wood Tool Sharpener (model 3000/3000C)
- Festool Dust Collector (model CT-36E)
- Festool Track Saw and Panels (model TS-55REQ)
- Festool Router (model OF1400EQF+)
- Festool Sanders (model RO125FEQ+, RTS400REQ+)
- 1 Shopbot Desktop CNC
- Shaper Origin
- Shaper Workstation
- Microlux Drum Sander
- Grizzly Oscillating Spindle Sander (Model G1071)
- Jet 14" Bandsaw

Textiles:

- 1 Melco EMT16X Commercial Embroidery Machine
- 6 Janome Schoolmate S-3015 Sewing Machines
- 2 complete sewing stations with materials, tools, lighting, and pinnable dress forms
- 1 Juki MO-735 Serger Machine
- 1 Steam Iron w/ table
- Cricut Maker craft cutter
- 3 full sewing stations
- 4 Janome Schoolmate sewing Machines
- 2 dress Forms

Office and Storage:

- Office for the technical supervisor is on-site. Storage for student projects available starting fall 2020. Temporary materials storage appx. 500 sq. ft.

BeAM@Hanes Art Center

Laser Cutting:

- Universal Laser Systems, 2' x 4' bed and 18" x 24" bed (Model ILS12.150D)

Vinyl Cutting:

- Roland 24" vinyl cutter (Camm-1 Servo,GX-24)
- Tee shirt press Electronics
- 2 mobile soldering stations

Wood Working:

- Jet 14" Bandsaw (model JWBS-14SF)
- Jet 17" Drill Press (model JDP-17)
- DeWalt 20" Heavy Duty Variable Speed Scroll Saw (model DW788)

- Powermatic Combination Belt/Disc Sander (model BD31A)
- ShopBot (PRS CNC)
- 1 Shopbot Desktop CNCs
- Festool System (Circular Saw, model TS 55 REQ-Plus USA, Accessories set:model FS-SYS/2, CLEANTEX HEPA Dust Extractor:model CT 26 E HEPA)
- Festool Dust Collector (model CT-36E)
- Festool Track Saw and Panels (model TS-55REQ)
- Festool Router (model OF1400EQF+)
- Festool Sanders (model RO125FEQ+, RTS400REQ+)
- Grizzly Oscillating Spindle Sander (model G1071)
- Festool Kapex Sliding Compound Miter Saw (model KS 120 EB)
- 3 Rikon Midi Lathes (model 70-220VSR)
- Baldor Grinder Buffer 1/3 HP
- Kreg Foreman Semi-Automatic Pocket Hole Machine (model DB210)
- Rikon 6" Bench Top Jointer Model 20-600H
- DeWalt DW735X Planer

Textiles:

- 2 Janome Schoolmate S-3015 Sewing Machines

Office:

- Office for the technical supervisor is on-site. Storage for equipment and consumables is approximately 300 sq. ft.

BeAM@Carmichael Residence Hall

Digital Fabrication:

3D Printing:

- 24 Ultimaker 3 3D printers
- 6 3Doodler 3D Printing Pens

Vinyl Cutting:

- Roland 24" vinyl cutter (Camm-1 Servo,GX-24)

Digital die cutting:

- 1 Klic-N-Kut Force dual head digital die cutter
- Rotary attachment
- 3 different knife options
- Embossing and punch tools

Electronics:

- 4 Hakko FX-888D mobile soldering stations

Textiles:

- 1 Melco EMT16 Plus Commercial Embroidery Machine
- 3 Janome Schoolmate S-3015 Sewing Machines
- 1 Brother CS6000I Sewing Machine

- 1 Juki MO-735 Serger Machine
- 1 Janome CoverPro 1000 CPX Coverstitch Machine
- 1 Steam Iron w/ table

Button making:

- TBA

Office:

- Office for the technical supervisor is on-site.

Partnership Makerspace at Kenan Science Library

Digital Fabrication:

3D printing: A total of six printers including

- Ultimaker S5
- Fusion3 F306:
- Lulzbot Mini
- uPrint SE Plus
- MakerBot Replicator 2
- MakerBot Replicator 2X
- MakerBot Replicator Mini

Electronics:

- Raspberry Pi, Makey Makey, Little Bits, Arduino Kits, Hakko Soldering Iron

Textiles:

- Janome S-3015 Sewing machine