

BIC Equipment List

The BIC has a variety of equipment used in the advanced manufacturing industry. Resources are primarily available at our main facility, but access to resources within our network can be arranged

At 45 Woodlawn Ave:

Additive Manufacturing (3D Printing)

- Stratasys J750 (Full Color and mixed material properties, polyjet resin printer)
- Desktop Metal Studio System 2 (Bound Metal Deposition (BMD) for printing metal parts)
- BigRep Pro (Large format FDM, ~ 1 cubic meter build volume)
- Markforged Mark II (Composite Printer for Nylon with added carbon fiber)
- Stratasys Dimension SST 1200ES (ABS parts with dissolvable support material)
- Formlabs Form 3 (SLA resin printer; high resolution, low volume molds)
- Makerbot Method X (2x dual extrusion FDM printer)
- Prusa i3 MK3S+ (3X, consumer FDM for typical parts)

Digital Fabrication

- BossLaser HP3655 (150W CO2 Laser Cutter with rotary axis)

3D Scanning

- Matterport Pro 2 architectural scanner
- Einscan Pro 2x Plus handheld scanner

Mixed Reality

- HoloLens version 1 (15x, AR headset)
- HoloLens version 2 (1x, AR headset)
- Oculus Quest (2x, VR Headset)
- HTC Vive (1x, VR Headset)
- Playstation VR (1x, VR Headset)
- Valve Index (1x, VR Headset)

Facilities

- Wet Lab
 - Fume Hood
 - Laminar Flow Hood
 - 8 lab benches with air and gas supplies
 - RO/DI water system
 - Lab grade fridge and freezer
 - Locking storage cabinets
 - Lab Glass dishwasher
 - Ice machine
 - Basic lab supplies

Within the BIC Network:

Metrology

- Hexagon Global CMM (metrology reports available at a discount for BIC members)
- Hexagon Romer Arm with scanning head

Machining

- Wazer waterjet
- Small manual mills and lathes
- Small 3 axis CNC mill
- Small CNC lathe
- Small CNC router

Anticipated within calendar year 2022:

AM

- Formlabs Fuse 1 30w (SLS, nylon with glass or CF fill)
- Formlabs Form 3BL (Large format SLA resin)
- Markforged Onyx One (CF filled nylon FDM)
- Prusa i3 MK3S+ (12x)
- Mosaic Element HT (High temperature, multi material FDM)
- Digital Anatomy upgrade for Stratasys J750
- Titanium upgrade for Desktop Metal Studio System