



LSIH & AIH Shared Labs

Access to shared lab equipment saves members time and money.

Available Equipment:

- **qPCR** (ABI QuantStudio™ 5, 96-well & 384-well)
- **PCR/Thermocyclers** (ABI MiniAmp Plus)
- **Sanger Sequencer** (ABI, SeqStudio)
- **RNA Integrity Analyzer** (Invitrogen, Qubit 4)
- **HEPA PCR workstation** (Analytic Jena UVP)
- **Plate Reader** (Molecular Devices - SpectraMax® i3x w/ injectors)
- **Imaging System** (Azure Biosystems C600)
- **Floor-standing Centrifuge** (Beckman Coulter - Avanti JXN-26)
- **Refrigerated Microcentrifuges** (Heraeus Fresco 21)
- **Refrigerated Tabletop Centrifuge** (Heraeus Megafuge 40R TC and XLT Legend)
- **Mini Centrifuges** (mySPIN 12)
- **Microbiology incubators** (Heratherm™)
- **Shaking Refrigerated Incubators** (MaxQ 4000, Innova 42R)
- **Cell Culture Incubators** (Heracell™ VIOS, tri-gas)
- **Biosafety Cabinets** (Labconco Logic+, 4' & 6')
- **Sonicator** (Omni Sonic Ruptor 4000)
- **Digital Ultrasonic Cleaner** (Vevor®)
- **Stirring Hotplates** (Cimarec 7X7 HPS 100)
- **Rocker Platforms** (VWR)
- **Vortex Mixers** (VWR)
- **Hybridization oven and UV-crosslinker** (UVP, Hybrilink)
- **Heating and Drying Vacuum Oven** (Vacutherm)
- **Automated Pipettes** (Finnpipette F2 GLP)
- **Automated Pipet fillers** (Eppendorf, Easy Pet 3)
- **Electronic Pipettes** (E1-ClikTip)
- **Balance** (10 kg capacity)
- **Analytical Balance** (min weight: 10 mg, d= 0.1 mg)
- **Micro-Analytical Balance** (Mettler-Toledo, d=0.002 mg)
- **Freeze Dryer** (Labconco 12L, with stoppering trays and manifold)
- **Bioprinter** (Cellink Bio X6 Gen 3 6-nozzle 3D-printer, with bioink, syringe and T-controlled printheads)
- **Chromatography systems** (ÄKTA pure™ 25)
- **Rotavapor** (Buchi R-300 with chiller)
- **Nano Drop & Cuvette Spectrophotometer** (Implen NP80)
- **Digital Stereo Microscope** (Keyence VHX-7000 fully integrated head unit, advanced 2D/3D measurements, multi-angle observation)
- **Zeiss Inverted Microscope** (Axiovert, BF and full spectrum fluorescence, color camera)
- **Zeiss Upright Microscope** (AxioScope, BF and full spectrum fluorescence, monochrome camera)
- **Zeiss Tissue Culture Microscope** (Primovert, BF)
- **Zeiss Dissecting Microscope** (Stemi 305, colour camera)
- **Agarose & Polyacrylamide Gel Equipment**
- **Western Blot transfer units** (ThermoScientific Owl Dual Gel and Mini-PAGE)
- **Freezers** (- 80°C, - 20°C) and **Fridges** (4°C, TSX series)
- **Liquid nitrogen dewar** (BR3 with racks for 5000 vials)
- **Water Baths** (10 L, 20 L)
- **Block Heaters** (2.0 ml, 1.5, and 0.5 ml blocks)
- **Autoclaves** (Steris 250 LS)
- **Glassware washer** (Miele PG8504)
- **Ultrapure water** (GenPure xCAD Plus UV/UF)
- **pH Meter** (Mettler-Toledo Seven Excellence S400)
- **Ice Makers**
- **Glassware**
- **Lab Carts**



LSIH & AIH Shared Labs

Prototyping Labs available equipment:

- **Waterjet Cutter** (Echojet, 5-axis waterjet 4'-3" square table)
- **CNC Router** (XYZ MetalWorker 4010, Working area: 152.4x304 cm)
- **CNC Mill** (HAAS Super Mini Mill, 10,000 RPM, 3 axis, WIPS)
- **Desktop CNC** (Carbide 3D Nomad 883, 10,000 RPM, 8"x8"x3" cutting area)
- **CNC Lathe** (HAAS ST 28, 12" chuck, 3200 max RPM, 12 tools)
- **Manual Lathe** (Modern GH 1440W, 14" swing over bed, 3HP)
- **Laser Cutters and Engravers** (Trotec Speedy 360 FLEXX 80W CO₂ & 30W Fiber 32"X20" work area, and Nova 63 CO₂ 130W 66.9" x 44.5)
- **Floor Scale** (PFA261 C MT, 1K 36X36 I236)
- **Shear Brake Roll** (BAILEIGH SBR-5216, 4' x 8' 16-gauge mild steel)
- **Metal Cutting Band Saw** (Kaka BS-712R 7")
- **Vacuum Former** (Formech 450DT, 160 mm depth of draw, 450 x 300 mm max sheet size, 6 mm max material thickness)
- **3D Scanners** (HandySCAN BLACK Elite Limited, accuracy: 0.012 mm)
- **CMM** (Gage Max FaroArm CMM, Working Volume: 1.5 m)
- **Multisensor Measurement System** (Keyence LM-X100TL, Capacity: 325 mm x 175 mm, Accuracy X& Y: ± (1.8 + 0.02 L) μm)
- **Universal Testing Machine** (Instron 68TM-50 and the Chamber)
- **VR Goggles** (Varjo XR-4 Focal Edition, and HTC VIVE XR Elite)
- **Mig Welders** (MIG200 and MIG250)

3D Printers (FDM, SLA, and SLS):

- **Makerbot Method** (FDM, Build volume 15.2x19x19.6 cm)
- **Bambu Lab X1-Carbon, and BAMBU LAB X1E combo** (FDM, 0.2, 0.4, 0.6mm nozzle, Build volume: 256 x 256 x 256 mm)
- **UltiMaker S7 Bundle** (FDM, 33 x 24 x 30 cm, 2.85 mm filament diameter)

- **Neptune 3 Max** (FDM, Build volume: 42x42x50cm, Max 260 °C)
- **Fuse 1 3D Printer and Sift** (SLS Technology, Nylon 12 Powder, Build volume: 16.5 x 16.5 x 30 cm, Layer Thickness: 110 microns)
- **Fuse 1+ 30W 3D Printer Sift** (SLS Technology, Nylon 11CF Powder, Build volume: 16.5 x 16.5 x 30 cm, Layer Thickness: 110 microns)
- **Formlabs Form 3** (SLA, Build Volume: 14.5 x 14.5 x 18.5 cm, XY Resolution: 0.025 mm)
- **Elegoo Saturn 3 Ultra 12K** (MSLA, Build Volume: 218.88 x 122.88 x 260 mm, XY Resolution: 19x24μm)
- **Elegoo Saturn 8K** (MSLA, Build Volume: 21.9 x 12.3 x 21 cm, X& Y Resolution: 0.0285 mm)

Electronics and Other Power Tools

- **PCB Printer** (Voltera V-One, 4.5" x 5" Print area)
- **Flexible Electronics Printer** (Voltera Nova, 100 μm Line width, 1,000 - 1,000,000 cps Viscosity range)
- **Reflow Solder Batch Oven** (DDM Novastar GF-B-HT, up to 12"x 12" boards)
- **Electrophoresis Power Supplies, Multimeters, Dual Function Digital Soldering and Desoldering Stations, and Digital Oscilloscopes**
- **Sewing machine** (Singer 4452)
- **Drill press** (Rikon 17in, speed: 200-2200 RPM)
- **Bandsaw** (Rikon 14IN. DELUXE, 1.75 HP)
- **Bench sander** (Porter Cable PCB420SA)