

Tools and Documentation

Tools That Require Training

3D Printers

Tool	Location	Training SOP
FormLabs Form3 SLA 3D Printer	uFL 3430	Form 2/3 SOP
Ultimaker3/S5 Extended Dual FDM 3D Printer	uFL 3430	FDM Training
Stratasys F270 FDM 3D Printer	uFL 3430	FDM Training
Bambu Lab X1-Carbon FDM 3D Printer	uFL 3430	X1-Carbon SOP

PDMS Processing

Tool	Location	Training SOP
Laurell WS-650M Spin Coater	uFL 3430	laurel_spin_coater.pdf
Thinky ARE-310 Mixer	uFL 3430	Thinky Mixer
Harrick Plasma Cleaner PDC-32G	uFL 3430	Plasma Cleaner SOP
Novascan Ozone Cleaner	uFL 3430	Ozone Cleaner SOP
Vapor Silanization Rig New	uFL 3430	Vapor Silanization Rig SOP New

Metalworking & Woodworking

Tool	Location	Training SOP
Bandsaw	IW 2442	Bandsaw Safe Operating Procedure
ShopBot Desktop CNC Router	IW 2442	ShopBot Desktop Training SOP
Diamond Saw	uFL 3430	Dimond TrimSaw 2 Training SOP
Flashcut / Sherline CNC Mill	uFL 3430	Sherline CNC Training SOP
WEN vertical Drill Press	IW 2442	Cnsi Drill Press SOP
Delta 6" Bench Grinder	IW 2442	CNSI Innovation Workshop Benchtop Grinder User Outline
Grizzly bench Combo Disk/Belt Sander	IW 2442	CNSI Innovation Workshop Grizzly H8192 Combination Belt/Disk Sander User Outline
Precision Matthews Milling Machine	IW 2442	Manual Milling Machine Training SOP
Haas Super Mini Mill	uFL 3430	Haas Super Mini Mill Training SOP
Festool Miter Saw	IW 2442	Miter Saw Training SOP
Precision Matthews Lathe	IW 2442	

Other

Tool	Location	Training SOP
Keyence VHX-5000 Microscope	uFL 3430	Keyence Microscope Training SOP
Trotec Speedy 100	uFL 3430	Laser cutting SOP
Wazer Waterjet Cutter	IW 2442	Waterjet SOP
CrystalMark Etching Tool	uFL 3430	CrystalMark SOP

Other Available Tools

Microfluidics Tools

Tool	Location
Pressure Casting Chamber	in storage
36W 365 nm UV Exposure System	uFL 3430
New Era Single Syringe Pumps	uFL 3430
Harvard Apparatus Dual Syringe Pumps	uFL 3430
Electro-Technic BD-20AC Corona Treater	uFL 3430
Pipette Cutter	uFL 3430
Sonicator Bath	uFL 3430

Heating Tools

Tool	Location
Vacuum Oven	uFL 3430
Thermoline 1315M Furnace	in storage
Yamato DKN400 Convection Oven	uFL 3430
Lindberg Blue M Convection Oven	uFL 3430
Thermoline/Lindberg Blue M Oven	IW 2448
Hot Press	uFL 3430
Corning 6795-620D Hot Plate	uFL 3430 & IW 2442
Programmable Hot Plate	uFL 3430

Microscopes, Measurement and Inspection Tools

Tool	Location
Electronic Scales	uFL 3430 & IW 2448
Height Gauge	uFL 3430
Fisher Acumet pH Meter	uFL 3430
Thermal Camera	uFL 3430
Phantom VR211 High Speed Camera	uFL 3430
Canon Camera	uFL 3430
Nikon Camera	uFL 3430
Boroscope	IW 2448

Metalworking and woodworking tools

Tool	Location
Mini Drill Press	2442
Jig Saw	2442
Arbor Press	2442

Electronics tools

Tool	Location
Xytronic LF-853D soldering station	uFL 3430
Digital Volt Meter	uFI 3430
Oscilloscope	uFI 3430

Post-Processing for 3D Prints

Tool	Location
FormCure UV Curing Station	uFL 3430
Form Wash Cleaner	uFL 3430
SCA 1200 HT NaOH parts bath	uFL 3430

Other

Tool	Location
CriCut	uFI 3430
EinScan-SP 3D Scanner	uFI 3430
Laminator	uFI 3430
Sewing Machine	IW 2448

From:
<https://microfluidics.cnsi.ucsb.edu/wiki/> - **Innovation Workshop Wiki**

Permanent link:
https://microfluidics.cnsi.ucsb.edu/wiki/doku.php?id=tools_and_documentation&rev=1727380570

Last update: **2024/09/26 19:56**

