

ASU NanoFab tool list

For more detailed information go to "Processing" Tab and Module Name

For equipment scheduling (calendars) go to "User Portal/Tool Scheduling"

For tool operating instructions go to "User Portal/Standard Operating Procedures"

To Sign up for training go to "User Portal/Tool Training"

Process Module	ASU Nanofab Equipment
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Optical Lithography	EVG 620 Contact Aligner
	OAI 808 Contact Aligner
	GCA 8500 Stepper
	PR Spinner 1
	PR Spinner 2
	Brewer CEE 200X Spinner
	Brewer CEE 200X Spinner and Hotplate
	EVG 520 Bonder/Embossing

Electron Beam Lithography	JEOL 6000 FS/E Electron Beam Lithography
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Metal Film Deposition	CHA E-Beam Evaporation
	Lesker #1 Magnetron Sputter PVD75
	Lesker #2 Magnetron PVD75 ZnO Sputter
	Lesker #3 E-Beam Evaporation PVD75
	Lesker #4 E-Beam Evaporation PVD PRO-Line
	Edwards 2 Thermal Evaporation

Dielectric Film Deposition	Plasma Quest RPCVD
	Oxford PECVD
	SCS Parylene Coater

Atomic Layer Deposition	Cambridge ALD Savannah
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Plasma Etching	STS ICP AGE Chlorine
	STS ICP ASE Fluorine
	Oxford Plasmalab80+ RIE Fluorine
	Oxford Plasmalab80+ RIE Chlorine
	Xactix XeF2 Silicon Etcher
	Plasma-Therm RIE 790 Fluorine
	Plasma-Therm Apex SLR ICP Chlorine
	Tegal #1 O2 Asher
	Tegal #2 O2 Asher
	Tegal #3 O2 Asher

Characterization	Hitachi S4700 FESEM
	Woollam Spectroscopic Ellipsometer
	Filmetrics F-20 Reflectometer
	Filmetrics F-40 Reflectometer
	Zygo Optical Profiler
	Bruker Dektak XT
	AlphaStep-500

Wet Chemical Processing	Acid Hoods
	Solvent Hoods
	Base Hood

Thermal Processes	Tystar Oxidation Furnace
	Tystar LPCVD Polysilicon
	Tystar LPCVD Nitride
	Tempress Boron Diffusion
	Tempress Phosphorus Diffusion
	Tempress Metal N ₂ -H ₂ Anneal
	Tempress Oxidation Furnace
	Tamarack RTA
	AG HeatPulse 610 RTA

Miscellaneous	Tousimis CO ₂ Supercritical Drying
	Wire Bonder MEI
	Flip-Chip FineTech Bonder

Electrical Characterization	High Temp Probe Station
	MDC CV System
	Hall system
	DLTS System