

These Rates will carry overhead			Internal	Internal Hourly
URnano Machines			Hourly Rate	Rate with Help
<b>Metrology - Wilmot Lab</b>				
SWIPE WL	<b>Wilmot Prep Rm 216 Entrance Fee Per Day</b>			\$6.00
<b>Tier 2</b>				
SEM	Scanning Electron Microscope		\$65.00	\$125.00
	Zeiss-Auriga SEM/FIB			
TEM	Transmission Electron Microscope		\$65.00	\$125.00
<b>Tier 3</b>				
FIB	Focused Ion Beam used along with SEM		\$80.00	\$140.00
EBL	Electron Beam Lithography		\$80.00	\$140.00
	50 kV Elionix ELS-S50EX			
<b>Tier 4</b>				
AFM	Atomic Force Microscope		\$22.00	\$82.00
UIR	Nicolet Nic-Plan IR Microscope		\$22.00	\$82.00
	ulR microscope and Magna 470 IR spectrometer			
<b>Tier 0</b>				
DSP	Denton Sputtering Tool			\$60.00
LADD	Ladd Evaporator			\$60.00
CPD	Critical Point Dryer			\$60.00
SBT	SBT Plasma Cleaner/O2 asher			\$60.00
TRIPOD	SBT Tripod polisher, saw & polishing wheel			\$60.00
UMT	Ultramicrotome			\$60.00
<b>Cleanroom Tools - Goergen Basement Lab</b>				
SWIPE CLN	<b>Cleanroom Entrance Fee Per Day</b>			\$12.00
<b>Tier 1 - Vaccum Deposition Tools</b>				
AJA	AJA Sputtering Tool		\$45.00	\$105.00
ALD	Atomic Layer Deposition		\$45.00	\$105.00
	Cambridge NanoTech			
PVD	PVD 75a Lesker Hybrid Sputter-Evaporation Tool		\$45.00	\$105.00
	Overnight Pumping Surcharge (after 5pm)		\$90.00 /event	
PVD	PVD 75b Lesker Straight Sputtering Tool		\$45.00	\$105.00
	Overnight Pumping Surcharge (after 5pm)		\$90.00 /event	
RIE	Reactive Ion Etcher Blue Ar-O <sub>2</sub> -CH <sub>4</sub>		\$45.00	\$105.00
	South Bay RIE-2000			
YES	CVD Plasma Oven		\$45.00	\$105.00
	Yield Engineering Plasma Oven			
DICER	Dicing Saw		\$45.00	\$105.00
	DISCO DAD3221			
XSP	Cross Section Polisher		\$45.00	\$105.00
	JEOL ion mill IB-19530CP			
<b>Tier 4 - Cleanroom Tools</b>				
MAOAI	Mask Aligner		\$22.00	\$82.00

	OAI Mask Aligner			
SSI	Rapid Thermal Processor		\$22.00	\$82.00
	Annealsys AS-One 150 RTP			
LZRWR	Mictotech Laser Writer		\$22.00	\$82.00
FILM	Filmetrics		\$22.00	\$82.00
LITHO	Lithography Bench with Spinners		\$22.00	\$82.00
AMBIOS	Ambios Surface Profiler		\$22.00	\$82.00
PROBE	4 Point Probe Station		\$22.00	\$82.00
WBONDER	Wire Bonder		\$22.00	\$82.00
<b>Tier 0 - Cleanroom Free Tools</b>				
	Megasonics Cleaner			\$60.00
SHOV	ShellLab low-temperature Ovens			\$60.00
RCA	RCA clean bench			\$60.00
	RCA general acid bench			\$60.00
SRD	Spin Rinse Dryer			\$60.00
<b>Tier 5 - XPS</b>				
XPS	XPS Day Rate 6am - 6pm		\$50.00	\$110.00
	XPS Night Rate (Requires at least 6 hour time block)		\$40.00	\$90.00
	XPS Weekendt Rate (Requires at least 20 hour time block)		\$30.00	\$80.00
<b>Engineer Time/Training Time</b>				
	Engineer Hourly Rate			\$60.00