



PRINCETON
INSTITUTE OF
MATERIALS

Hourly Rate Schedule for PRISM Cleanroom External Industrial Users

Date: July 1, 2022

Category	Tool Name	Tier	Hourly Price: Self Usage	Hourly Price: Assisted Usage (3x)
Nanolith	Raith EBP5150	4	\$ 340.00	\$ 1020.00
Nanolith	Raith eLine	4	\$ 220.00	\$ 660.00
Nanolith	Beamer	3	\$ 140.00	\$ 420.00
Nanolith	Nanonex	3	\$ 140.00	\$ 420.00
Lithography	Suss MA6	3	\$ 140.00	\$ 420.00
Lithography	Suss MJB4	3	\$ 140.00	\$ 420.00
Lithography	YES Oven	3	\$ 140.00	\$ 420.00
Lithography	Heidelberg DWL 66+	3	\$ 140.00	\$ 420.00
Deposition	Oxford PlasmaPro100 PECVD	3	\$ 140.00	\$ 420.00
Deposition	Angstrom Covap	3	\$ 140.00	\$ 420.00
Deposition	Angstrom Dielectric Sputterer	3	\$ 140.00	\$ 420.00
Deposition	Angstrom Dual Chamber E-Beam	3	\$ 140.00	\$ 420.00
Deposition	Angstrom Metals Sputterer	3	\$ 140.00	\$ 420.00
Deposition	Angstrom Nexdep	3	\$ 140.00	\$ 420.00
Deposition	Cambridge ALD	3	\$ 140.00	\$ 420.00
Deposition	Denton E-Beam Evaporator	3	\$ 140.00	\$ 420.00
Etch	APEX Diamond Etcher	3	\$ 140.00	\$ 420.00
Etch	APEX Metal Etcher	3	\$ 140.00	\$ 420.00
Etch	SAMCO 200 IP III-V Etcher	3	\$ 140.00	\$ 420.00
Etch	SAMCO 800 Deep Si Etcher	3	\$ 140.00	\$ 420.00
Etch	STS ICP Metals Etcher	3	\$ 140.00	\$ 420.00
Etch	Oxford PlasmaPro 80 RIE	3	\$ 140.00	\$ 420.00
Etch	PlasmaTherm 720 SLR RIE	3	\$ 140.00	\$ 420.00
Etch	Tepla M4L O2 Etcher	3	\$ 140.00	\$ 420.00
Etch	Takachi III-V Etcher	3	\$ 140.00	\$ 420.00
Etch	Versaline Etcher	3	\$ 140.00	\$ 420.00
Packaging	ADT Dicing Saw	3	\$ 140.00	\$ 420.00
Packaging	K&S 4124 Au Ball Bonder	3	\$ 140.00	\$ 420.00
Packaging	Questar Automatic Wire Bonder	3	\$ 140.00	\$ 420.00
Packaging	K&S Manual Wire Bonder	3	\$ 140.00	\$ 420.00
Thermal	CVD 1034 Tube1-OXIDE	3	\$ 140.00	\$ 420.00
Thermal	CVD 1034 Tube2-METAL ANNEAL	3	\$ 140.00	\$ 420.00
Thermal	CVD 1034 Tube3-CLEAN ANNEAL	3	\$ 140.00	\$ 420.00
Thermal	Solaris III-V RTP	3	\$ 140.00	\$ 420.00
Thermal	Solaris Silicon RTP	3	\$ 140.00	\$ 420.00
SMP	Nanoscribe 3D Printer	3	\$ 140.00	\$ 420.00
SMP	Plasma Cleaner	3	\$ 140.00	\$ 420.00
Metrology	Hitachi SEM	3	\$ 140.00	\$ 420.00

Category	Tool Name	Tier	Hourly Price (Self Usage)	Hourly Price Assisted Usage
Packaging	Loomis LSD-100 Scribe-Dice	2	\$ 120.00	\$ 360.00
Packaging	Tresky Flip Chip Bonder	2	\$ 120.00	\$ 360.00
Packaging	Epoxy Die Bonder	2	\$ 120.00	\$ 360.00
Packaging	Logitech Lapping-Polishing System	2	\$ 120.00	\$ 360.00
SMP	Heidelberg µPG	2	\$ 120.00	\$ 360.00
SMP	D120 Profilometer	2	\$ 120.00	\$ 360.00
SMP	Parylene Coater	2	\$ 120.00	\$ 360.00
Metrology	Keyence Confocal	2	\$ 120.00	\$ 360.00
Metrology	Keyence VHX-6000	2	\$ 120.00	\$ 360.00
Metrology	P15 Profilometer	2	\$ 120.00	\$ 360.00
Metrology	Nanospec	2	\$ 120.00	\$ 360.00
Metrology	Gaertner Ellipsometer	2	\$ 120.00	\$ 360.00
Metrology	Probe Station	2	\$ 120.00	\$ 360.00
Metrology	Signatone 4-Pt Probe Station	2	\$ 120.00	\$ 360.00
Metrology	Probe Station, 4200A-SCS	2	\$ 120.00	\$ 360.00
Metrology	Filmetrics F40UV	2	\$ 120.00	\$ 360.00
Wet Processes	Critical Point Dryer	2	\$ 120.00	\$ 360.00
Thermal	CVD2 Anneal Furnace	1	\$ 80.00	\$ 240.00
SMP	Form2 3D Printer 1	1	\$ 80.00	\$ 240.00
SMP	Form2 3D Printer 2	1	\$ 80.00	\$ 240.00
SMP	Form2 3D Printer 3	1	\$ 80.00	\$ 240.00
SMP	Shellab Vacuum Oven	1	\$ 80.00	\$ 240.00
Lithography	Polos Cr Etch Spin Processor	0	\$ -	\$ -
Wet Processes	Acid Hood - Station 1	0	\$ -	\$ -
Wet Processes	Acid Hood - Station 2	0	\$ -	\$ -
Wet Processes	Acid Hood - Station 3	0	\$ -	\$ -
Wet Processes	Base Hood	0	\$ -	\$ -

- Stockroom supplies, e-beam crucibles, gold and precious metals are charged at marketrate plus F&A.