

Birck Nanotechnology Center Rates

Recharge Center	Machine/Process	Billable Unit	Internal Purdue	Not for Profit & Small Business	Corporate
SCIFRES	Engineer Training Time	Per 1 Hour Use	\$ 65.00	\$ 136.20	\$ 153.77
	Engineering Staff Time	Per 1 Hour Use	\$ 65.00	\$ 117.88	\$ 133.09
	2D CVD	Per 2 Hour Use	\$ 28.00	\$ 42.85	\$ 48.38
	Admet Tensile Strength	Per use	\$ 21.00	\$ 32.07	\$ 36.21
	AJA Ion Mill	Per 1 Hour Use	\$ 60.00	\$ 99.57	\$ 112.42
	Alpha-Step IQ	Per Half-Hour Use	\$ 6.00	\$ 10.02	\$ 11.31
	Ammonia (NH3) Anneal (Nitrogen Anneal)	Per 1 Hour Use	\$ 19.00	\$ 28.29	\$ 31.94
	AOE Etcher	Per 1 Hour Use	\$ 85.00	\$ 152.40	\$ 172.07
	ASE Etcher	Per 1 Hour Use	\$ 37.00	\$ 57.04	\$ 64.40
	Automatic Developer	Per 1 Hour Use	\$ 24.00	\$ 36.56	\$ 41.27
	Axic CVD	Per 2 Hour Use	\$ 38.00	\$ 58.28	\$ 65.80
	Blue M Oven	Per 1 Hour Use	\$ 10.00	\$ 13.98	\$ 15.78
	Branson	Per 1 Hour Use	\$ 11.00	\$ 18.79	\$ 21.21
	Bruker Optical Profileometer	Per Half-Hour Use	\$ 13.00	\$ 19.68	\$ 22.21
	Cascade PMC 200 Probe Station	Per 1 Hour Use	\$ 28.00	\$ 113.36	\$ 127.99
	Cha E-Beam Evaporator	Per 4 Hour Use	\$ 64.00	\$ 98.30	\$ 110.99
	Cleanroom Daily Access Fee	Per Day	\$ 43.00	\$ 67.17	\$ 75.84
	CMP	Per 1 Hour Use	\$ 30.00	\$ 66.92	\$ 75.55
	Critical Point Driver (CPD)	Per 1 Hour Use	\$ 30.00	\$ 49.58	\$ 55.98
	Dimension 3100 AFM	Per 1 Hour Use	\$ 21.00	\$ 31.85	\$ 35.96
	Disco Dad Dicing Saw #2	Per 1 Hour Use	\$ 30.00	\$ 79.53	\$ 89.79
	DiscoDad Dicing Saw	Per 1 Hour Use	\$ 30.00	\$ 79.53	\$ 89.79
	Easy Tube 3000	Per 2 Hour Use	\$ 40.00	\$ 64.55	\$ 72.88
	E-Beam Evaporator for Organics	Per 4 Hour Use	\$ 123.00	\$ 190.15	\$ 214.68
	Electrodeposition_1	Per use	\$ 9.00	\$ 13.29	\$ 15.00
	Electrodeposition_PAR	Per use	\$ 7.00	\$ 11.07	\$ 12.50
	Ellipsometer	Per Half-Hour Use	\$ 10.00	\$ 24.25	\$ 27.38
	Fiji200 ALD	Per Use	\$ 53.00	\$ 81.90	\$ 92.47
	Filmetrics F10-RT	Per Half-Hour Use	\$ 4.00	\$ 5.52	\$ 6.23
	Filmetrics F40	Per Half-Hour Use	\$ 4.00	\$ 5.52	\$ 6.23
	Hall Effect System	Per use	\$ 10.00	\$ 37.24	\$ 42.04
	Heidelberg	Per 1 Hour Use	\$ 68.00	\$ 105.38	\$ 118.98
	Iko Electroplating System	Per 1 Hour Use	\$ 62.00	\$ 94.82	\$ 107.06
	Jandel 4-point probe system	Per Half-Hour Use	\$ 3.00	\$ 17.07	\$ 19.27
	JEOL 8100FS E-Beam System	Per 1 Hour Use	\$ 88.00	\$ 145.90	\$ 164.72
	JEOL JCM-5000 Table Top SEM	Per Half-Hour Use	\$ 13.00	\$ 19.11	\$ 21.58
	JFP Wire Bonder	Per 1 Hour Use	\$ 20.00	\$ 68.57	\$ 77.41
	Jipelec RTA	Per 1 Hour Use	\$ 18.00	\$ 38.88	\$ 43.89
	KOH Bath System	Per use	\$ 7.00	\$ 10.33	\$ 11.67
	Kurt J Lesker E-Beam	Per 2 hour use	\$ 92.00	\$ 142.22	\$ 160.57
	Large Wire Bonding Package	Per Package	\$ 25.00	\$ 38.75	\$ 43.75
	Leica Confocal Microscope	Per use	\$ 45.00	\$ 289.02	\$ 326.31
Leybold E-Beam Evaporator	Per 4 Hour Use	\$ 100.00	\$ 154.52	\$ 174.46	
LPKF PCB Milling System	Per use	\$ 70.00	\$ 107.78	\$ 121.69	
LPKF Plater	Per Use	\$ 50.00	\$ 76.44	\$ 86.30	
LPKF Press	Per use	\$ 30.00	\$ 65.83	\$ 74.32	
Mirwec	Per 1 Hour Use	\$ 42.00	\$ 69.54	\$ 78.51	
MJB-3 Wafer Aligner	Per Half-Hour Use	\$ 13.00	\$ 19.74	\$ 22.29	
MJB-4 Wafer Aligner	Per Half-Hour Use	\$ 13.00	\$ 19.74	\$ 22.29	
MMIIIProbe 3 (Cleanroom Probe 1)	Per 2 Hour Use	\$ 35.00	\$ 59.64	\$ 67.33	
MMIIProbe 2	Per 2 Hour Use	\$ 34.00	\$ 58.27	\$ 65.79	

Recharge Center	Machine/Process	Billable Unit	Internal Purdue	Not for Profit & Small Business	Corporate
SCIFRES Continued	MMIProbe 1	Per 2 Hour Use	\$ 34.00	\$ 58.27	\$ 65.79
	MMR Probe Station #2	Per 2 Hour Use	\$ 52.00	\$ 132.84	\$ 149.98
	MPMS	Per 4 Hour Use	\$ 30.00	\$ 156.64	\$ 176.85
	Nanonex NX-2000 Nanoimprinter	Per 1 Hour Use	\$ 30.00	\$ 63.02	\$ 71.16
	Nicolet FTIR	Per use	\$ 16.00	\$ 29.69	\$ 33.52
	Nitric Oxide Anneal	Per 1 Hour Use	\$ 20.00	\$ 31.00	\$ 35.00
	Olympus BX-60 Microscope	Per Half-Hour Use	\$ 3.00	\$ 6.40	\$ 7.23
	Organic Sputtering System	Per 4 Hour Use	\$ 120.00	\$ 257.76	\$ 291.01
	P-7 Profiler	Per use	\$ 23.00	\$ 34.77	\$ 39.26
	Panasonic	Per 1 Hour Use	\$ 69.00	\$ 105.78	\$ 119.43
	Parylene CVD	Per 4 Hour Use	\$ 50.00	\$ 91.34	\$ 103.13
	PECVD	Per 1 Hour Use	\$ 58.00	\$ 89.54	\$ 101.09
	Pick and Place Machine	Per use	\$ 24.00	\$ 36.83	\$ 41.58
	PPMS	Per 4 Hour Use	\$ 48.00	\$ 73.05	\$ 82.47
	PPSI Inkjet	Per use	\$ 300.00	\$ 2,302.31	\$ 2,599.38
	ProTemp Tube_01	Per 1 Hour Use	\$ 20.00	\$ 31.12	\$ 35.14
	ProTemp Tube_02	Per 1 Hour Use	\$ 29.00	\$ 43.56	\$ 49.18
	ProTemp Tube_03	Per 1 Hour Use	\$ 43.00	\$ 82.36	\$ 92.99
	ProTemp Tube_04	Per 1 Hour Use	\$ 26.00	\$ 38.85	\$ 43.87
	ProTemp Tube_05	Per 1 Hour Use	\$ 19.00	\$ 28.74	\$ 32.44
	ProTemp Tube_06	Per 1 Hour Use	\$ 50.00	\$ 103.67	\$ 117.05
	ProTemp Tube_07	Per 1 Hour Use	\$ 26.00	\$ 38.85	\$ 43.87
	ProTemp Tube_08	Per 1 Hour Use	\$ 16.00	\$ 23.58	\$ 26.62
	ProTemp Tube_09	Per 1 Hour Use	\$ 70.00	\$ 177.69	\$ 200.62
	PVD Electron Beam Evaporator #1	Per 2 Hour Use	\$ 75.00	\$ 115.79	\$ 130.74
	PVD Electron Beam Evaporator #2	Per 4 Hour Use	\$ 100.00	\$ 207.34	\$ 234.09
	PVD Sputtering System - Magnets	Per 2 Hour Use	\$ 80.00	\$ 125.98	\$ 142.23
	PVD Sputtering System - Metals/Dielectrics	Per 2 Hour Use	\$ 80.00	\$ 124.04	\$ 140.04
	RCA Hood	Per 1 Hour Use	\$ 19.00	\$ 29.24	\$ 33.01
	RIE	Per 1 Hour Use	\$ 20.00	\$ 29.93	\$ 33.79
	Roll-to-Roll System - Cleanroom	Per 1 Hour Use	\$ 68.00	\$ 105.22	\$ 118.79
	Scientific Staff Time	Per 1 Hour Use	\$ 70.00	\$ 122.36	\$ 138.15
	Scientific Training Time	Per 1 Hour Use	\$ 70.00	\$ 110.36	\$ 124.60
	Screen Printer	Per Use	\$ 70.00	\$ 310.15	\$ 350.16
	Small Wire Bonding Package	Per Package	\$ 10.00	\$ 15.50	\$ 17.50
	Spin Rinse Dryer	Per use	\$ 6.00	\$ 15.56	\$ 17.57
	Spinners (5)	Per Half-Hour Use	\$ 3.00	\$ 3.58	\$ 4.04
	Stress Machine	Per Half-Hour Use	\$ 40.00	\$ 62.18	\$ 70.21
	Suss MA-6 Mask Aligner	Per Half-Hour Use	\$ 13.00	\$ 20.92	\$ 23.62
	Suss SB6e Substrate Bonder	Per 1 Hour Use	\$ 60.00	\$ 120.26	\$ 135.77
	Table-Top Inkjet System	Per 1 Hour Use	\$ 24.00	\$ 37.11	\$ 41.90
	Thierry_Tetra_150	Per use	\$ 45.00	\$ 74.22	\$ 83.79
	ULS Engraver	Per 1 Hour Use	\$ 8.00	\$ 17.59	\$ 19.86
	Vacuum Oven	Per 1 Hour Use	\$ 10.00	\$ 15.02	\$ 16.96
	Veeco Dimension AFM (nanoman)	Per 1 Hour Use	\$ 10.00	\$ 14.35	\$ 16.20
	Veeco Thermal Evaporator	Per 4 Hour Use	\$ 125.00	\$ 316.48	\$ 357.32
	WAFAB Electroplating System	Per use	\$ 60.00	\$ 127.80	\$ 144.29
	West Bond	Per 1 Hour Use	\$ 30.00	\$ 44.99	\$ 50.80
	Westbond 7476E Wedge Bonder	Per use	\$ 21.00	\$ 31.70	\$ 35.79
	Xef Etcher	Per 1 Hour Use	\$ 19.00	\$ 28.83	\$ 32.55

Recharge Center	Machine/Process	Billable Unit	Internal Purdue	Not for Profit & Small Business	Corporate
Lab Access	DRY - LEVEL ONE	Per Day	\$ 4.00	\$ 22.00	\$ 25.00
	SOLVENT - LEVEL TWO	Per Day	\$ 13.00	\$ 69.00	\$ 79.00
	ACID - LEVEL THREE	Per Day	\$ 19.00	\$ 100.00	\$ 114.00
Biology Labs	Special Projects Hourly Staff Rate	Per Hour	\$ 55.00	\$ 85.00	\$ 97.00
	BioLabs Access	Per Day	\$ 22.00	\$ 48.00	\$ 55.00
	Zetasizer	Per Hour	\$ 4.00	\$ 7.00	\$ 7.00
	Olympus FV1000 Confocal Microscope	Per Hour	\$ 25.00	\$ 39.00	\$ 44.00
	Cell Culture BioHood Surcharge	Per Month	\$ 25.00	\$ 39.00	\$ 44.00
Atomic Force Microscopy	Nanotech AFM 1	Per Hour	\$ 25.00	\$ 39.00	\$ 77.00
	Nanotech AFM 2	Per Hour	\$ 25.00	\$ 39.00	\$ 77.00
	Agilent 5500	Per Hour	\$ 25.00	\$ 39.00	\$ 77.00
	Asylum MFP3D Bio AFM	Per Hour	\$ 44.00	\$ 68.00	\$ 136.00
	Asylum Cypher	Per Hour	\$ 44.00	\$ 68.00	\$ 136.00
Epitaxy	Epitaxy Staff Rate	Per Hour	\$ 53.00	\$ 82.00	\$ 143.00
	XRD (xrd) - normal scan	Per Hour	\$ 45.00	\$ 85.00	\$ 149.00
	XRD (xrd) - rsm scan	Per Run	\$ 270.00	\$ 510.00	\$ 894.00
	Nitride Sputter System (nitride_sputtering)	Per Run	\$ 85.00	\$ 138.00	\$ 240.00
	Oxide PLD System (pld)	Per Run	\$ 85.00	\$ 136.00	\$ 238.00
Optics and Spectroscopy	Optics Staff Rate	Per Hour	\$ 66.00	\$ 102.00	\$ 178.00
	Spectrophotometer Lambda	Per Hour	\$ 68.00	\$ 105.00	\$ 184.00
	Micro-sample Spectrometer	Per Hour	\$ 70.00	\$ 108.00	\$ 189.00
	Raman Spectrometer T64000	Per Hour	\$ 31.00	\$ 48.00	\$ 84.00
	NSOM_Renishaw	Per Hour	\$ 79.00	\$ 122.00	\$ 213.00
	V-VASE Spectroscopic Ellipsometer	Per Hour	\$ 16.00	\$ 25.00	\$ 44.00
Raith E-Beam	Raith E-Beam Staff Rate	Per Hour	\$ 44.00	\$ 73.00	\$ 83.00
	Raith E-Line E-Beam (raith)	Per Hour	\$ 34.00	\$ 61.00	\$ 69.00
Surface Analysis and SPM	Kratos XPS Analysis Time (xps - staff)	Per Hour	\$ 70.00	\$ 108.00	\$ 123.00
	Kratos XPS Instrument Time (xps)	Per Hour	\$ 43.00	\$ 96.00	\$ 109.00
	Glovebox	Per Hour	\$ 25.00	\$ 39.00	\$ 44.00
	Omicron (omicron)	Per Run	\$ 50.00	\$ 185.00	\$ 210.00
Laser Doppler Vibrometry	LDV Staff Rate	Per Hour	\$ 36.00	\$ 56.00	\$ 63.00
	Micro System Analyzer (polytec_laser_vibrometer)	Per Hour	\$ 6.00	\$ 10.00	\$ 11.00
	Vacuum Chamber (Suss_PLV50_ProbeStation)	Per Hour	\$ 13.00	\$ 21.00	\$ 23.00
Femtosecond Laser & Raman Spectroscopy	Training/Staff Time	Per Hour	\$ 37.00	\$ 57.00	\$ 65.00
	Femtosecond Laser	Per Hour	\$ 30.00	\$ 47.00	\$ 53.00
	Raman Spetrometer	Per Hour	\$ 27.00	\$ 42.00	\$ 48.00
Thermoelectric Characterization	Training/Staff Time	Per Hour	\$ 31.00	\$ 48.00	\$ 55.00
	Z-Meter (z_meter)	Per Hour	\$ 10.00	\$ 16.00	\$ 18.00
	Bulk (TE_bulk)	Per Hour	\$ 10.00	\$ 16.00	\$ 18.00
	Thin Film (TE_ThinFilm)	Per Hour	\$ 10.00	\$ 16.00	\$ 18.00