

<i>Tool/Instrument</i>	<i>Billable Unit</i>	<i>Current Internal Subsidized Rate</i>	<i>Original Proposed User Charge</i>	<i>Updated User Charge</i>	<i>New % Increase</i>
(PCB) LPKF Milling System	Per use	\$74.00	\$70.00	\$70.00	-5%
2D CVD	per 2 hours	N/A	\$34.00	\$28.00	-18%
Alpha-Step IQ	Per Half-Hour Use	\$4.00	\$6.00	\$6.00	50%
Ammonia (NH3) Anneal (Nitrogen Anneal)	Per 1 Hour Use	\$18.00	\$19.00	\$19.00	6%
AOE Etcher	Per 1 Hour Use	\$48.00	\$50.00	\$85.00	77%
ASE Etcher	Per 1 Hour Use	\$48.00	\$48.00	\$37.00	-23%
Axic CVD	Per 2 Hour Use	\$42.00	\$42.00	\$38.00	-10%
Blue M Oven	Per 1 Hour Use	\$7.00	\$10.00	\$10.00	43%
Branson	Per 1 Hour Use	\$10.00	\$11.00	\$11.00	10%
Bruker Optical Profileometer	Per Half-Hour Use	\$15.00	\$13.00	\$13.00	-13%
Cascade PMC 200 Probe Station	Per 1 hour	\$10.00	\$14.00	\$28.00	180%
Cha E-Beam Evaporator	Per 4 Hour Use	\$100.00	\$100.00	\$64.00	-36%
Cleanroom Daily Access Fee	Per Day	\$40.00	\$43.00	\$43.00	8%
CMP	Per 1 Hour Use	\$18.00	\$30.00	\$30.00	67%
Critical Point Driver (CPD)	Per 1 Hour Use	\$11.00	\$30.00	\$30.00	173%
Dimension 3100 AFM	Per 1 Hour Use	\$30.00	\$30.00	\$21.00	-30%
Disco Dad Dicing Saw #2	Per 1 Hour Use	\$23.00	\$25.00	\$30.00	30%
DiscoDad Dicing Saw	Per 1 Hour Use	\$23.00	\$25.00	\$30.00	30%
Easy Tube 3000	Per 2 Hour Use	\$40.00	\$40.00	\$40.00	0%
E-Beam Evaporator for Organics	Per 4 hours	\$120.00	\$125.00	\$123.00	3%
Electrodeposition_1	Per use	\$10.00	\$9.00	\$9.00	-10%
Electrodeposition_PAR	Per use	\$10.00	\$7.00	\$7.00	-30%
WAFAB Electroplating System	Per use	\$50.00	\$50.00	\$60.00	20%
Ellipsometer	Per Half-Hour Use	\$6.00	\$7.00	\$10.00	67%
Engineering Staff Time	Per Hour	\$53.00	\$50.00	\$65.00	23%
Fiji200 ALD	Per Use	\$55.00	\$55.00	\$53.00	-4%
Filmetrics F10-RT	Per Half-Hour Use	\$3.00	\$4.00	\$4.00	33%
Filmetrics F40	Per Half-Hour Use	\$3.00	\$4.00	\$4.00	33%
Hall Effect System	Per use	\$5.00	\$10.00	\$10.00	100%
Jandel 4-point probe system	Per Half-Hour Use	\$2.00	\$3.00	\$3.00	50%
JEOL	Per Hour	N/A	\$78.00	\$88.00	13%
JEOL JCM-5000 Table Top SEM	Per Half-Hour Use	\$15.00	\$13.00	\$13.00	-13%
JFP Wire Bonder	Per 1 Hour Use	\$16.00	\$20.00	\$20.00	25%
Jipelec RTA	Per 1 Hour Use	\$15.00	\$18.00	\$18.00	20%
KOH Bath System	Per use	\$32.00	\$7.00	\$7.00	-78%
Kurt J Lesker E-Beam	Per 2 hour use	\$100.00	\$100.00	\$92.00	-8%
Large Wire Bonding Package	Per Package	\$25.00	\$25.00	\$25.00	0%
Leica Confocal Microscope	Per use	\$35.00	\$30.00	\$45.00	29%
Leybold E-Beam Evaporator	Per 4 Hour Use	\$100.00	\$100.00	\$100.00	0%
LPKF Plater	Per Use	N/A	\$50.00	\$50.00	0%
LPKF Press	Per use	N/A	\$30.00	\$30.00	0%
Mirwec	Per 1 hour	\$35.00	\$35.00	\$42.00	20%
MJB-3 Wafer Aligner	Per Half-Hour Use	\$12.00	\$13.00	\$13.00	8%
MJB-4 Wafer Aligner	Per Half-Hour Use	N/A	\$13.00	\$13.00	0%
MMIIProbe 3 (Cleanroom Probe 1)	Per 2 Hour Use	\$33.00	\$35.00	\$35.00	6%
MMIProbe 2	Per 2 Hour Use	\$33.00	\$34.00	\$34.00	3%
MMIProbe 1	Per 2 Hour Use	\$33.00	\$34.00	\$34.00	3%
MMR Probe Station #2	Per 2 Hour Use	\$51.00	\$52.00	\$52.00	2%
MPMS	Per 4 hours	\$30.00	\$30.00	\$30.00	0%
Nanonex NX-2000 Nanoimprinter	Per 1 Hour Use	\$21.00	\$20.00	\$30.00	43%
Nicolet FTIR	Per use	\$15.00	\$16.00	\$16.00	7%
Nitric Oxide Anneal	Per 1 Hour Use	\$9.00	\$20.00	\$20.00	122%
Olympus BX-60 Microscope	Per Half-Hour Use	\$3.00	\$3.00	\$3.00	0%
Organic Sputtering System	Per 4 hours	\$75.00	\$120.00	\$120.00	60%
P-7 Profiler	Per use	\$40.00	\$23.00	\$23.00	-43%
Panasonic	Per 1 Hour Use	\$90.00	\$90.00	\$69.00	-23%
Parylene CVD	Per 4 Hour Use	\$48.00	\$50.00	\$50.00	4%
Pick and Place Machine	Per use	\$34.00	\$24.00	\$24.00	-29%
PPMS	Per 4 hours	\$50.00	\$50.00	\$48.00	-4%
PPSI Inkjet	Per use	\$150.00	\$150.00	\$300.00	100%
Scientific Staff Time - Raghunathan	Per Hour	\$75.00	\$75.00	\$70.00	-7%
Scientific Staff Time - Dilley	Per Hour	\$75.00	\$75.00	\$70.00	-7%
ProTemp Tube_01	Per 1 Hour Use	\$28.00	\$20.00	\$20.00	-29%
ProTemp Tube_02	Per 1 Hour Use	\$28.00	\$38.00	\$29.00	4%
ProTemp Tube_03	Per 1 Hour Use	\$28.00	\$40.00	\$43.00	54%
ProTemp Tube_04	Per 1 Hour Use	\$28.00	\$28.00	\$26.00	-7%
ProTemp Tube_05	Per 1 Hour Use	\$28.00	\$21.00	\$19.00	-32%
ProTemp Tube_06	Per 1 Hour Use	\$28.00	\$48.00	\$50.00	79%
ProTemp Tube_07	Per 1 Hour Use	\$28.00	\$28.00	\$26.00	-7%
ProTemp Tube_08	Per 1 Hour Use	\$28.00	\$18.00	\$16.00	-43%
ProTemp Tube_09	Per 1 Hour Use	\$28.00	\$55.00	\$70.00	150%
PVD Electron Beam Evaporator #1	Per 2 Hour Use	\$100.00	\$100.00	\$75.00	-25%
PVD Electron Beam Evaporator #2	Per 4 Hour Use	\$100.00	\$100.00	\$100.00	0%
PVD Sputtering System - Magnets	Per 2 Hour Use	\$60.00	\$80.00	\$80.00	33%
PVD Sputtering System - Metals/Dielectrics	Per 2 Hour Use	\$60.00	\$105.00	\$80.00	33%
Roll-to-Roll System - Cleanroom	Per 1 hour	\$65.00	\$85.00	\$68.00	5%
Small Wire Bonding Package	Per Package	\$10.00	\$10.00	\$10.00	0%
Spin Rinse Dryer	Per use	\$5.00	\$6.00	\$6.00	20%
Spinners (5)	Per Half-Hour Use	\$3.00	\$3.00	\$3.00	0%
Stress Machine	Per Half-Hour Use	\$36.00	\$40.00	\$40.00	11%
Suss MA-6 Mask Aligner	Per Half-Hour Use	\$12.00	\$13.00	\$13.00	8%
Suss SB6e Substrate Bonder	Per 1 Hour Use	\$50.00	\$60.00	\$60.00	20%
Table-Top Inkjet System	Per 1 hour	\$50.00	\$24.00	\$24.00	-52%
Thierry_Tetra_150	Per use	\$25.00	\$45.00	\$45.00	80%
Training Time	Per Hour	\$47.00	\$55.00	\$65.00	38%
ULS Engraver	Per 1 hour	\$8.00	\$8.00	\$8.00	0%
Veeco Dimension AFM (nanoman)	Per 1 Hour Use	\$13.00	\$10.00	\$10.00	-23%
West Bond	Per 1 Hour Use	\$35.00	\$30.00	\$30.00	-14%
Westbond 7476E Wedge Bonder	Per use	\$16.00	\$21.00	\$21.00	31%
Xef Etcher	Per 1 Hour Use	\$18.00	\$19.00	\$19.00	6%
Iko Electroplating System	Per Hour	N/A	\$62.00	\$62.00	0%
RIE	Per Hour	N/A	\$25.00	\$20.00	-20%
RCA Hood	Per Hour	N/A	\$20.00	\$19.00	-5%
Heidelberg	Per Hour	N/A	\$68.00	\$68.00	0%
Automatic Developer	Per Hour	N/A	\$24.00	\$24.00	0%
Vacuum Oven	Per Hour	N/A	\$10.00	\$10.00	0%
PECVD	Per Hour	N/A	\$60.00	\$58.00	-3%
AJA Ion Mill	Per 1 Hour Use	N/A	\$48.00	\$60.00	25%
Screen Printer	Per Use	N/A	\$50.00	\$70.00	40%
Scientific Staff Time - Glassmaker	Per Hour	N/A	\$75.00	\$70.00	-7%
Scientific Training Time	Per Hour	N/A	\$75.00	\$70.00	-7%

Key:	New rate less than originally proposed rate	Total Green:	25
	New rate greater than originally proposed rate	Total Blue:	18
	New rate unchanged from previous rate	Total Gray:	58