

REFINE Lab Service Center

Reverse Engineering, Fabrication, Inspection, and Non-Destructive Evaluation Lab

REFINE is a world-class lab for reverse engineering, fabrication, inspection and non-destructive evaluation. REFINE houses state-of-the-art equipment including:

- X-Ray Microscopes
- Focus Ion Beams
- Scanning Electron Microscopes
- Optical Microscopes
- Digital Microscopes
- Probe Station
- Failure Analysis Tools
- Circuit Edit/Debugging Tools

Standard Hourly Rates & Equipment Pricing:

	<u>Internal</u>			<u>External Non-Profit/Academic</u>			<u>External Corporate</u>		
	Unassisted	Assisted	Night	Unassisted	Assisted	Night	Unassisted	Assisted	Night
<i>ZEISS Xradia Versa 520</i>	85.00	170.00	42.50	136.00	272.00	68.00	170.00	340.00	85.00
<i>ZEISS Xradia Versa 520 w/ in situ Hourly Surcharge</i>	20.00								
<i>ZEISS Crossbeam 450 w/o Laser</i>	50.00	100.00	25.00	80.00	160.00	40.00	100.00	200.00	50.00
<i>ZEISS Crossbeam 450 w/ Laser Flat Surcharge (sample size dependent)</i>	10.00-20.00								
<i>ZEISS Orion Nanofab</i>	100.00	200.00	50.00	160.00	320.00	80.00	200.00	400.00	100.00
<i>ZEISS Smart Proof</i>	30.00	60.00	15.00	48.00	96.00	24.00	60.00	120.00	30.00
<i>ZEISS Smart Zoom</i>	30.00	60.00	15.00	48.00	96.00	24.00	60.00	120.00	30.00
<i>Vectra 986+ (daily rate)</i>	500.00	1,000.00	250.00	800.00	1,600.00	400.00	1,000.00	2,000.00	500.00