

## Stanford Nano Shared Facilities FY17 Fee Schedule <sup>1</sup>

<http://snsf.stanford.edu/pdf/Rates.pdf>

Effective 01-September-2016

	Instrument	Location	Stanford Internal User Hourly Rates <sup>2</sup>	Outside Academic Partners, Government and Non-profit User Hourly Rates <sup>2, 11</sup>  IDC will be added to invoice <sup>10</sup>	Industry / Others User Hourly Rates <sup>2</sup>  IDC will be added to invoice <sup>10</sup>	Notes
Staff Training & Consulting			\$75	\$75	\$75	3
Electron & Ion Microscopy	SEM: FEI Sirion	McCullough	\$45	\$45	\$135	
	SEM: FEI Magellan	Spilker	\$45	\$45	\$135	
	FIB/SEM: FEI DB235	McCullough	\$75	\$75	\$225	
	FIB/SEM: FEI Helios 600i	Spilker	\$75	\$75	\$225	
	TEM: FEI Tecnai	McCullough	\$95	\$95	\$285	
	TEM: FEI Titan	Spilker	\$95	\$95	\$285	8
	TEM: Sample Preparation	Moore	\$102	\$102	\$306	
X-ray & Surface Analysis	XRD: PANalytical X'Pert 1	McCullough	\$30	\$30	\$90	
	XRD: PANalytical X'Pert 2	McCullough	\$30	\$30	\$90	
	XRD: Multiwire Laue	McCullough	\$50	\$50	\$150	
	XRD: Bruker Single Crystal D8 Venture	McCullough	\$25/\$20	\$25/\$20	\$75/\$60	7
	XCT: Zeiss Xradia 520 Versa X-ray CT	Spilker	\$20/\$15	\$20/\$15	\$60/\$45	7
	Auger: PHI 700	McCullough	\$50	\$50	\$150	
	XPS: PHI Versaprobe 1	McCullough	\$45/\$35	\$45/\$35	\$135/\$105	7
	XPS: PHI Versaprobe 3	McCullough	\$45/\$35	\$45/\$35	\$135/\$105	7
	PESA: Riken AC-2 Photoelectron Spectrometer	McCullough	\$40	\$40	\$120	
	SIMS: Cameca NanoSIMS 50l	Spilker	\$125	\$125	\$375	
	SPM: Park XE-70	McCullough	\$10	\$10	\$30	
	SPM: Park XE-100	McCullough	\$10	\$10	\$30	
	SPM: Park NX-10	Shriram	\$10	\$10	\$30	
	SPM: WITec Alpha 500 Raman	Spilker	\$10	\$10	\$30	
	SPM: Horiba Labram Raman	Spilker	\$20	\$20	\$60	
	SPM: Scanning SQUID Microscope (daily charge)	McCullough	\$900	\$900	\$1,800	9

Nanofabrication	e-beam: JEOL 6300-FS	Spilker	\$120/\$100	\$120/\$100	\$360/\$300	6,7
	e-beam/SEM: FEI Nova	Spilker	\$30	\$30	\$90	6
	deposition: KJL Evaporator	Spilker	\$25	\$25	\$75	6
	deposition: Oerlikon Univex Sputter	Spilker	\$35	\$35	\$105	5
	milling: Intlvac Ion Mill	Spilker	\$35	\$35	\$105	5
	RIE: Oxford PlasmaPro 80	Spilker	\$35	\$35	\$105	6
	KLA Tencor Alpha Step D-500 Profilometer	Spilker	\$10	\$10	\$30	5
	Westbond Wirebonder	Spilker	\$45	\$45	\$135	
	Nanopatterning Cleanroom (daily charge)	Spilker	\$15	\$15	\$45	4
	Flexible Cleanroom (daily charge)	Spilker	\$15	\$15	\$45	4
	Microfab Shop	Spilker	\$94	\$94	\$282	
Soft & Hybrid Materials Facility	Contact Angle Goniometer: Rame-Hart 290	Shriram	\$30	\$30	\$90	
	DLS: Brookhaven Instrument Nanobrook Omni	Shriram	\$20	\$20	\$60	
	DMA: TA Instrument Q800	Shriram	\$20	\$20	\$60	
	DSC: TA Instrument Q2000	Shriram	\$10	\$10	\$30	
	Ellipsometer: Horiba Smart SE	Shriram	\$30	\$30	\$90	
	Gas sorption: Quantachrome Autosorb iQ3	Shriram	\$3	\$3	\$9	
	HT-GPC: Tosho High-temperature EcoSEC with MALS: Wyatt Dawn Heleos	Shriram	\$40	\$40	\$120	
	Impedance Analyser Agilent 4294A	Shriram	\$40	\$40	\$120	
	LB Trough: Biolin Scientific KSV 5000	Shriram	\$20	\$20	\$60	
	Mechanical Testing, Instron 5565	Shriram	\$20	\$20	\$60	
	Oxygen Plasma Cleaner Gala Prep 5	Shriram	\$30	\$30	\$90	
	Polarized LM: Nikon LV100	Shriram	\$20	\$20	\$60	
	Profilometer: Bruker Dektak 150	Shriram	\$10	\$10	\$30	
	QCM: Biolin Q-Sense Quartz Crystal Microbalance	Shriram	\$40	\$40	\$120	
	Rheometer: TA Instrument ARES-G2	Shriram	\$40	\$40	\$120	
	Scanning Kelvin Probe: SKP5050	Shriram	\$30	\$30	\$90	
	Spectroscopy: Agilent Cary 6000i UV/Vis/NIR	Shriram	\$20	\$20	\$60	
	Spectroscopy: Horiba FluoroLog Fluorimeter	Shriram	\$30	\$30	\$90	
	Spectroscopy: Horiba XploRA+ Confocal Raman	Shriram	\$20	\$20	\$60	
	Spectroscopy: Nicolet iS50 FT/IR Spectrometer	Shriram	\$15	\$15	\$45	
SPR: GE Biacore X100 Surface Plasmon Resonance	Shriram	\$3	\$3	\$9		
TGA: TA Instrument Q500	Shriram	\$20	\$20	\$60		

Notes	Description
1	Rates are reviewed on an ongoing basis and are subject to change without notice. Rates are reviewed and approved by the Federal Government and may be adjusted retroactively in order to ensure compliance.
2	Hourly rates displayed. Actual usage is tracked by monitoring system and charged per minute. We reserve the right to charge for unused, reserved time. We reserve the right to charge for reserved equipment time if cancelled less than 24 hours before the start of the reservation.
3	Staff hourly rate only. Applicable equipment rates may be added as necessary for training or consultation on any instrument.
4	Charged per day. Multiple entries during the same day allowed.
5	Equipment located within Flexible Clean Room (FCR). FCR charges applied in addition to usage of equipment.
6	Equipment located within Nanopatterning Clean Room (NPCR). NPCR charges applied in addition to usage of equipment.
7	Displayed rates: <b>Peak</b> rate daily 08:00-18:00 / <b>Off-peak</b> rate daily 18:00-08:00.
8	FEI Titan TEM: If the per month, per user, per PTA usage exceeds <b>36 hours</b> , all subsequent usage will be billed at a discounted rate corresponding to 20% of the standard hourly rate. The discounted rate only applies to Stanford Internal Users and does not apply to Academic Partners, Industry or Other users.
9	Daily rate includes staff charges. Not to exceed 1 cool-down per day.
10	<p>Indirect costs (IDC) allow Stanford University to recover certain expenses not covered through user fees. The IDC rate will be associated with the account setup and applied at the time of billing. The following IDC rates apply:</p> <ul style="list-style-type: none"> <li>- 8 % rate charged to external, U.S. accredited degree granting institutions of higher education using their own institution's non-sponsored funding.</li> <li>- 57 % rate charged to external, U.S. accredited degree granting institutions of higher education using their own institution's sponsored funding.</li> <li>- 57 % rate charged to industry/other external users.</li> </ul> <p>Note: IDC rates are subject to change. Please check <a href="http://doresearch.stanford.edu/research-administration/proposal-preparation-B76submission/rates#facilities-and-administrative-(f&amp;a)-cost-rates">http://doresearch.stanford.edu/research-administration/proposal-preparation-B76submission/rates#facilities-and-administrative-(f&amp;a)-cost-rates</a> for updated rates and further information.</p>
11	The reduced external rate is available to users from outside educational institutions, US Government Labs and non-profit (501(c)) organizations.