

# Stanford Nano Shared Facilities (SNSF)

## FY21 Fee Schedule <sup>1</sup>

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

Effective 1-September-2020

	Instrument	Location	Stanford Internal User Hourly Rates <sup>2</sup>	Outside Academic Partners, Government and Non-profit User Hourly Rates <sup>2, 10</sup>	Industry / Others User Hourly Rates <sup>2</sup>	Notes
Staff Training & Consulting			\$85	\$85	\$150	3
Electron & Ion Microscopy	SEM: TFS Apreo	Spilker	\$50	\$50	\$150	
	SEM: FEI Magellan	Spilker	\$50	\$50	\$150	
	FIB/SEM: FEI Helios 600i	Spilker	\$75/\$65	\$75/\$65	\$225/\$195	7
	TEM: FEI Tecnai	McCullough	\$100	\$100	\$300	
	TEM: FEI Titan	Spilker	\$115/\$75	\$115/\$75	\$345/\$225	
	TEM: Sample Holders		\$0	\$0	\$0	
	TEM: Sample Preparation	Moore	\$110	\$110	\$330	
X-ray & Surface Analysis	XRD: PANalytical X'Pert	McCullough	\$50/\$35	\$50/\$35	\$150/\$105	7
	XRD: PANalytical Empyrean	McCullough	\$50/\$35	\$50/\$35	\$150/\$105	7
	XRD: Multiwire Laue	McCullough	\$50	\$50	\$150	
	XRD: Bruker Single Crystal D8 Venture	McCullough	\$35/\$25	\$35/\$25	\$105/\$75	7
	XCT: Zeiss Xradia 520 Versa X-ray CT	Spilker	\$35/\$25	\$35/\$25	\$105/\$75	7
	Auger: PHI 700	McCullough	\$50	\$50	\$150	
	XPS: PHI VersaProbe 1	McCullough	\$50/\$35	\$50/\$35	\$150/\$105	7
	XPS: PHI VersaProbe 3	McCullough	\$50/\$35	\$50/\$35	\$150/\$105	7
	PESA: Riken AC-2 Photoelectron Spectrometer	McCullough	\$40	\$40	\$120	
	SIMS: Cameca NanoSIMS 50I	Spilker	\$100/\$50	\$100/\$50	\$300/\$150	
	SPM: Park XE-70	McCullough	\$20	\$20	\$60	
	SPM: Park XE-100	McCullough	\$20	\$20	\$60	
	SPM: Park NX-10	Shriram	\$20	\$20	\$60	
	SPM: Bruker Dimension Icon	Spilker	\$20	\$20	\$60	
	SPM: Horiba Labram Raman	Spilker	\$35	\$35	\$105	
	SPM: Scanning SQUID Microscope (daily charge)	McCullough	\$600	\$600	\$1,200	8

<b>Nanofabrication</b>	e-beam: JEOL 6300-FS	Spilker	\$125/\$75	\$125/\$75	\$375/\$225	6,7
	e-beam: Raith Voyager	Spilker	\$75	\$75	\$225	6
	e-beam/SEM: FEI Nova	Spilker	\$45	\$45	\$135	6
	deposition: KJL Evaporator	Spilker	\$35	\$35	\$105	6
	deposition: Oerlikon Univex Sputter	Spilker	\$35	\$35	\$105	5
	milling: Intlvac Ion Mill	Spilker	\$35	\$35	\$105	5
	litho: ML3 MicroWriter	Spilker	\$20	\$20	\$60	5
	litho: Mask Aligner	Spilker	\$10	\$10	\$30	5
	Asher	Spilker	\$10	\$10	\$30	5
	RIE: Oxford PlasmaPro 80	Spilker	\$45	\$45	\$135	6
	Profilometer: Bruker Dektak XT-S	Spilker	\$20	\$20	\$60	6
	Profilometer: KLA Tencor Alpha Step D-500	Spilker	\$20	\$20	\$60	5
	Keyence VK-X 3D Laser Confocal Microscope	Spilker	\$20	\$20	\$60	6
	Ellipsometer: Film Sense FS-1	Spilker	\$0	\$0	\$0	6
	Westbond Wirebonder	Spilker	\$35	\$35	\$105	
	3D Printer	Spilker	\$0	\$0	\$0	
	Nanopatterning Cleanroom (daily charge)	Spilker	\$25	\$25	\$75	4
	Flexible Cleanroom (daily charge)	Spilker	\$25	\$25	\$75	4
	Microfab Shop	Spilker	\$100	\$100	\$300	
<b>Soft &amp; Hybrid Materials Facility</b>	Contact Angle Goniometer: Rame-Hart 290	Shriram	\$30	\$30	\$90	
	DLS: Brookhaven Instrument Nanobrook Omni	Shriram	\$30	\$30	\$90	
	DMA: TA Instrument Q800	Shriram	\$30	\$30	\$90	
	DSC: TA Instrument Q2000	Shriram	\$20	\$20	\$60	
	Ellipsometer: Horiba UVISEL	Shriram	\$40	\$40	\$120	
	HT-GPC: Tosho High-temperature EcoSEC	Shriram	\$40	\$40	\$120	
	RT-GPC: Tosho Room-temperature EcoSEC	Shriram	\$40	\$40	\$120	
	HT-TGA/DSC: TA Instrument SDT 650	Shriram	\$30	\$30	\$90	
	LB Trough: Biolin Scientific KSV 5000	Shriram	\$30	\$30	\$90	
	Mechanical Testing, Instron 5565	Shriram	\$30	\$30	\$90	
	Oxygen Plasma Cleaner: Diener Pico	Shriram	\$30	\$30	\$90	
	Particle Analysis: Quantachrome Autoflow BET+	Shriram	\$30	\$30	\$90	
	Particle Analysis: Quantachrome Autosorb iQ3	Shriram	\$3	\$3	\$9	
	Particle Analysis: Quantachrome Poremaster 33	Shriram	\$40	\$40	\$120	
	Polarized LM: Nikon LV100	Shriram	\$20	\$20	\$60	
	Profilometer: Bruker Dektak XT-A	Shriram	\$20	\$20	\$60	
	Rheometer: TA Instrument ARES-G2	Shriram	\$30	\$30	\$90	
	Spectroscopy: Agilent Cary 6000i UV/Vis/NIR	Shriram	\$30	\$30	\$90	
	Spectroscopy: Horiba FluoroLog Fluorimeter	Shriram	\$30	\$30	\$90	
	Spectroscopy: Horiba XploRA+ Confocal Raman	Shriram	\$30	\$30	\$90	
Spectroscopy: Nicolet iS50 FT/IR Spectrometer	Shriram	\$20	\$20	\$60		
TGA: TA Instrument Q500	Shriram	\$30	\$30	\$90		

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	Daily rate includes staff charges. Not to exceed 1 cool-down per day.
9	<p>Indirect costs (IDC) allow Stanford University to recover certain expenses not covered through user fees. The IDC rate (57.7%) will be associated with the account setup and applied at the time of billing.</p> <p>Important: SNSF is part of the NSF-funded National Nanotechnology Coordinate Infrastructure. Stanford University has agreed to encourage external usage by offering a lower IDC rate of . Qualifying users include those from: a. non-Stanford, <b>U.S. academic institutions</b>; b. <b>U.S. government funded national laboratories</b> and will be eligible for the “<b>NNCI Waived Academic Rate</b>” set to 8%.</p> <p>Note: IDC rates are subject to change. Please check:  <a href="https://doresearch.stanford.edu/research-administration/proposal-preparation-submission/rates#facilities-and-administrative-(f&amp;a)-cost-rates">https://doresearch.stanford.edu/research-administration/proposal-preparation-submission/rates#facilities-and-administrative-(f&amp;a)-cost-rates</a>  for updated rates and further information.</p>
10	The reduced external rate is available to users from outside educational institutions, US Government Labs and non-profit (501(c)) organizations.