

Instrumentation Services Pricing

Important: All users must follow the CINS Facility Rules and Guidelines. In general, users must provide consumables.

Instrument Usage Hourly Rates									
	Academic in State		Academic Out of State		Industrial in State ¹		Industrial Out of State ¹		
Instrumen t	Staff assisted	Self use	Staff assisted	Self use	Staff assisted	Self use	Staff assisted	Self use	
JEOL 2100F TEM ²	\$90	\$60	\$120	\$80	\$250	\$180	\$480	\$240	
JEOL 7000F SEM	\$80	\$45	\$100	\$60	\$200	\$150	\$420	\$210	
Bruker Discover D8 XRD	\$80	\$45	\$100	\$60	\$200	\$150	\$420	\$210	
Horiba LabRam 800 Raman	\$90	\$60	\$120	\$80	\$200	\$150	\$420	\$210	
Bruker-Icon AFM ³	\$50	\$35	\$70	\$45	\$150	\$90	\$360	\$180	
Keysight Nano Indenter G200 ³	\$60	\$40	\$75	\$50	\$200	\$100	\$360	\$180	
Shimadzu UV-3600 UV/Vis/NIR ⁴	\$50	\$35	\$70	\$45	\$150	\$90	\$360	\$180	
Thermo Scientific K Alpha XPS ⁵	\$80	\$45	\$100	\$60	\$200	\$150	\$420	\$210	
Mettler-Toledo TGA/DSC	\$50	\$35	\$70	\$45	\$150/90	\$100/60	\$360/180	\$180/90	
Ultramicrotome	\$50	\$35	\$70	\$45	\$200	\$150	\$360	\$180	
Mechanical Compression	\$60	N/A	\$75	N/A	\$150	N/A	\$360	N/A	
Gel Permeation Chromatography ⁶	\$150 minimum fee (includes 5 samples); \$20 per additional sample (staff-assisted only)								
Ethylene Oxide Sterilizer	\$500/run (staff-assisted only)								
Customer Assistance ⁷	\$100		\$120		\$150		\$200		

Instrument Usage Per Sample Rates 8						
Micromeritics ASAP 2020	Surface area analysis	\$100 (assisted) or \$65 (self-use)				
Micromeritics ASAP 2020	Surface area analysis + full scale adsorption/desorption isotherm and pore size analysis	\$250 (assisted) or \$150 (self-use)				
Micromeritics AutoPore 9620	Mercury porosimetry analysis (approx. 1000 um to 4 nm pore size; sample dependent)	\$275 (assisted) or \$175 (self-use)				

Important:

- Customers who are paying via federal funding are billed the academic in-state rate.
- If data analysis is required, customer assistance fees will be charged for the analysis time.

Footnotes:

- 1) Industrial users must complete cost estimate agreement.
- 2) Prerequisites exist for graduate students to be trained on TEM. Users must prepare their own specimens. The TEM minimum required training hours do not includespecimen preparation training. No undergraduate students may be trained on TEM.
- 3) Users must provide their own probes.
- 4) Additional training needed for Integrated Sphere.
- 5) Ultra-high vacuum training needed.
- 6) Minimum fee includes polystyrene standards (580 1M mol wt) and up to 5 customer samples. Pricing includes routine sample preparation and analysis. Special needs will be

Minimum required training hours ⁹				
JEOL 2100F TEM ²	15 hrs			
JEOL 7000F SEM	10 hrs			
Bruker Discover D8 XRD	8 hrs			
Horiba LabRam 800 Raman	12 hrs			
Bruker-Icon AFM ³	8 hrs			
Keysight Nano Indenter G200 ³	8 hrs			
Shimadzu UV-3600 UV/Vis/NIR ⁴	6 hrs			
Thermo Scientific K Alpha XPS ⁵	12 hrs			
Mettler-Toledo TGA/DSC	4 hrs			
Ultramicrotome	12 hrs			

Note: Initial training is required for all new users. The above minimum hours are a general guide for calculating charges and may not reflect actual required hours. Additional charges may accrue before a trainee can be certified to use an instrument alone.

- (cont.) discussed with customers, with pricing estimates provided in advance.
- 7) Hourly fee for customer assistance beyond standard data acquisition, sample preparation, etc. Fee estimates willbe provided to customers upon discussion of specific needs.
- Staff assistance may be required to prepare samples for these instruments—see footnote 7. Training for self-use requires running samples in each instrument over the course of at least 3 days (typically 4-6 samples for BET and 10-14 samples for Hg Intrusion).
- 9) The customer assistance fee is charged per hour oftraining.