

## Instrumentation Services Pricing

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

Instrument Usage Hourly Rates								
Instrument	Academic in State		Academic Out of State		Industrial in State <sup>1</sup>		Industrial Out of State <sup>1</sup>	
	Staff assisted	Self use	Staff assisted	Self use	Staff assisted	Self use	Staff assisted	Self use
JEOL 2100F TEM <sup>2</sup>	\$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 <sup>3</sup>	\$50	\$35	\$70	\$45	\$150	\$90	\$360	\$180
Keysight Nano Indenter G200 <sup>3</sup>	\$60	\$40	\$75	\$50	\$200	\$100	\$360	\$180
Shimadzu UV-3600 UV/Vis/NIR <sup>4</sup>	\$50	\$35	\$70	\$45	\$150	\$90	\$360	\$180
Thermo Scientific K Alpha XPS <sup>5</sup>	\$80	\$45	\$100	\$60	\$200	\$150	\$420	\$210
Mettler-Toledo TGA/DSC	\$50	\$35	\$70	\$45	\$150/\$90	\$90	\$360/180	\$180
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 <sup>6</sup>	\$150/run (staff-assisted only); includes 5 samples, \$20 per additional sample							
Ethylene Oxide Sterilizer	\$500/run (staff-assisted only)							
Customer Assistance <sup>7</sup>	\$100		\$120		\$150		\$200	

Instrument Usage Per Sample Rates <sup>8</sup>		
Micromeritics ASAP 2020	Surface area analysis	\$100 / sample
Micromeritics ASAP 2020	Surface area analysis + full scale adsorption/desorption isotherm and pore size analysis	\$250 / sample
Anton Paar Poremaster 60GT	Mercury porosimetry analysis (approx. 1000 um to 4 nm pore size; sample dependent)	\$275 / sample

Minimum required training hours <sup>9</sup>	
JEOL 2100F TEM <sup>2</sup>	15 hrs
JEOL 7000F SEM	10 hrs
Bruker Discover D8 XRD	8 hrs
Horiba LabRam 800 Raman	12 hrs
Micromeritics ASAP-2020 BET <sup>8</sup>	8 hrs
Bruker-Icon AFM <sup>3</sup>	8 hrs
Keysight Nano Indenter G200 <sup>3</sup>	8 hrs
Shimadzu UV-3600 UV/Vis/NIR <sup>4</sup>	6 hrs
Thermo Scientific K Alpha XPS <sup>5</sup>	12 hrs
Mettler-Toledo TGA/DSC	8 hrs
Ultramicrotome	12 hrs
<b>Note:</b> 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.	

**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 include specimen 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 – 3M mol wt) and up to 5 customer samples. Pricing includes routine sample preparation and analysis. Special needs will be

- 6) (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 will be provided to customers upon discussion of specific needs.
- 8) Staff assistance may be required to prepare samples for these instruments—see footnote 7.
- 9) The customer assistance fee is charged per hour of training.