

CHARACTERIZATION.NANO EQUIPMENT USAGE RATES

EFFECTIVE JULY 2026

TOOL	COST (\$/HR)	
	MIT / OTHER ACADEMICS	EXTERNAL
	Self use For staff-assisted rate, add \$75/hr	Self use For staff-assisted rate, add \$322.50/hr
ATOMIC FORCE MICROSCOPY		
<u>AGILENT 5500 AFM</u>	52.50*	225.75*
<u>BRUKER ICON AFM</u>	52.50*	225.75*
<u>CYPHER S AFM</u>	52.50*	225.75*
<u>CYPHER VRS AFM</u>	52.50*	225.75*
CLEANROOM METROLOGY		
<u>AFM-ASYLUM JUPITER XR</u>		
<u>SEM-HITACHI REGULUS 8100</u>	Rates for these and other cleanroom metrology instruments can be found at: nanousers.mit.edu/fabnano-rates	
<u>SEM-ZEISS SIGMA 300</u>		
ELECTRON MICROSCOPY		
<u>AQUILOS CRYO-FIB/SEM</u>	87.50	376.25
<u>FEI HELIOS 600 FIB</u>	87.50	376.25
<u>FEI TECNAI TEM</u>	70.00	301.00
<u>GEMINI 450 SEM</u>	60.20	258.86
<u>HITACHI HF5000 ETEM</u>	70.00	301.00
<u>HITACHI HF5000 UHV</u>	70.00	301.00
<u>JEOL 2010F FEG TEM</u>	70.00	301.00
<u>JEOL 2011 TEM</u>	70.00	301.00
<u>QUATTRO ESEM</u>	60.20	258.86
<u>SIGMA HDVP SEM</u>	60.20	258.86
<u>TFS TALOS F200I</u>	70.00	301.00
<u>THEMIS Z STEM</u>	87.50	376.25

<u>VELION FIB SEM</u>	81.90	352.17
<u>ZEISS MERLIN HRSEM</u>	60.20	258.86
<u>MICROSCOPY ANALYSIS COMP</u>	5.00	21.50
MAGNETIC		
<u>MPMS3 DC AC VSM</u>	10.00	43.00
MATERIALS PREP		
<u>ALLIED MULTIPREP POLISHER</u>	12.60	54.18
<u>ALLIED TECHCUT</u>	12.60	54.18
<u>EMS150T SPUTTER COATER</u>	17.85/hr + 42.00/run	76.76/hr + 180.60/run
<u>FISCHIONE 1010 ION MILL</u>	10.00	43.00
<u>FISCHIONE 1051 TEM MILL</u>	10.00	43.00
<u>FREEZE STAGE</u>	20.00	86.00
<u>GATAN PIPS</u>	10.00	43.00
<u>MICRO BALANCE</u>	48.00	206.40
<u>MICROSCOPE AXIOSKOP</u>	37.00	159.10
<u>MICROSCOPE SZX16</u>	30.00	129.00
<u>PELCO SC7 SPUTTER COATER</u>	17.85/hr + 42.00/run	76.76/hr + 180.60/run
<u>PLASMA CLEANER</u>	37.00	159.10
<u>UV OZONE CLEANER</u>	28.00	120.40
<u>VTI GLOVE BOX</u>	17.85/hr + 30.00/run	76.76/hr + 129.00/run
OPTICAL SPECTROSCOPY		
<u>ALPHA300 APYRON CONFOCAL RAMAN</u>	52.50	225.75
<u>FTIR 6700</u>	33.00	141.90
<u>FTIR IS50</u>	33.00	141.90
<u>ICP AES 5100</u>	35.00	150.50
<u>LEICA STELLARIS CRS</u>	52.50	225.75
<u>RENISHAW REFLEX RAMAN</u>	37.00	159.10
<u>UVVISNIR PE1050</u>	30.00	129.00
SURFACE ANALYSIS		
<u>BRUKER TRIBOINDENTER NANOINDENTER</u>	49.00*	210.70*
<u>FILMETRICS REFLECTOMETER</u>	37.00	159.10
<u>PHI 700 AUGER</u>	44.00	189.20
<u>PHI VERSAPROBE XPS</u>	44.00	189.20
<u>PROFILOMETER XT</u>	44.00	189.20

<u>QCM-D</u>	33.00	141.90
X-RAY DIFFRACTION & IMAGING		
<u>BRUKER DISCOVER PLUS</u>	51.00**	219.30**
<u>HANDHELD XRF</u>	51.00	219.30
<u>LAUE</u>	51.00**	219.30**
<u>PANALYTICAL EMPYREAN</u>	51.00**	219.30**
<u>PANALYTICAL XPERT</u>	51.00**	219.30**
<u>SAXS</u>	51.00**	219.30**
<u>SMARTLAB</u>	51.00**	219.30**
<u>VERSA 620 XRM</u>	52.50	225.75
<u>XRAY INSPECTION</u>	42.00	180.60
CLASSROOM TRAINING		
<u>SEM CLASSROOM TRAINING</u>	45.00 flat	193.50 flat
<u>XPS CLASSROOM TRAINING</u>	45.00 flat	193.50 flat
<u>XRD CLASSROOM TRAINING</u>	45.00 flat	193.50 flat

Please note that rates are subject to change.

* Rate drops to 50% regular rate after 8 hours for long sessions.

** For long runs, rate drops to 50% regular rate overnight.

TOOL	COST (\$/HR)					
<i>RATES EFFECTIVE AUGUST 2026</i>	MIT		OTHER ACADEMICS		EXTERNAL	
	Self use	Staff assisted	Self use	Staff assisted	Self use	Staff assisted
CRYO-EM						
<u>CHAMELEON</u> Grid consumable, per grid: \$36	128.16 / session	217.44 / session	356.00 / session	604.00 / session	996.80 / session	1,691.20 / session
<u>CLIPPING STATION</u> C-clip & ring consumable, per grid: \$10 C-clip & cryo-FIB ring consumable, per grid: \$33	9.00 / session	58.32 / session	25.00 / session	162.00 / session	70.00 / session	453.60 / session
<u>GP2</u>	61.20 / session	150.84 / session	170.00 / session	419.00 / session	476.00 / session	1,173.20 / session
<u>HYDRA BIO PFIB/SEM</u>	28.80 / hr	58.68 / hr	80.00 / hr	163.00 / hr	224.00 / hr	456.40 / hr
<u>TALOS ARCTICA G2 CRYO-TEM</u>	26.28 / hr	56.16 / hr	73.00 / hr	156.00 / hr	204.40 / hr	436.80 / hr
<u>TITAN KRIOS G3I CRYO-TEM</u>	34.92 / hr	64.80 / hr	97.00 / hr	180.00 / hr	271.60 / hr	504.00 / hr
<u>VITROBOT</u>	61.20 / session	150.84 / session	170.00 / session	419.00 / session	476.00 / session	1,173.20 / session

For the most up-to-date Cryo-EM tool rates, visit cryoem.mit.edu/rates.