

CHARACTERIZATION.NANO EQUIPMENT USAGE RATES

EFFECTIVE MAY 2026

TOOL	COST (\$/HR)			
	MIT / OTHER ACADEMICS		EXTERNAL	
	Self use	Staff assisted	Self use	Staff assisted
ATOMIC FORCE MICROSCOPY				
AGILENT 5500 AFM	52.50*	120.75	225.75*	519.23
BRUKER ICON AFM	52.50*	120.75	225.75*	519.23
CYPHER S AFM	52.50*	120.75	225.75*	519.23
CYPHER VRS AFM	52.50*	120.75	225.75*	519.23
CLEANROOM METROLOGY				
AFM-ASYLUM JUPITER XR				
SEM-HITACHI REGULUS 8100	Rates for these and other cleanroom metrology instruments can be found at: nanousers.mit.edu/fabnano-rates			
SEM-ZEISS SIGMA 300				
ELECTRON MICROSCOPY				
AQUILOS CRYO-FIB/SEM	87.50	155.75	376.25	669.73
FEI HELIOS 600 FIB	87.50	155.75	376.25	669.73
FEI TECNAI TEM	70.00	140.00	301.00	602.00
GEMINI 450 SEM	60.20	110.00	258.86	473.00
HITACHI HF5000 ETEM	70.00	140.00	301.00	602.00
JEOL 2010F FEG TEM	70.00	140.00	301.00	602.00
JEOL 2011 TEM	70.00	140.00	301.00	602.00
QUATTRO ESEM	60.20	110.00	258.86	473.00
SIGMA HDVP SEM	60.20	110.00	258.86	473.00
TFS TALOS F200I	70.00	140.00	301.00	602.00
THEMIS Z STEM	87.50	155.75	376.25	669.73
VELION FIB SEM	81.90	150.15	352.17	645.65

<u>ZEISS MERLIN HRSEM</u>	60.20	110.00	258.86	473.00
<u>MICROSCOPY ANALYSIS COMP</u>	5.00	73.75	21.50	314.98
MAGNETIC				
<u>MPMS3 DC AC VSM</u>	10.00	78.25	43.00	336.48
MATERIALS PREP				
<u>ALLIED MULTIPREP POLISHER</u>	12.60	97.30	54.18	418.39
<u>ALLIED TECHCUT</u>	12.60	97.30	54.18	418.39
<u>EMS150T SPUTTER COATER</u> Rates are per evaporation, not per hour.	17.85	86.10	76.76	370.23
<u>FISCHIONE 1010 ION MILL</u>	10.00	77.50	43.00	333.25
<u>FISCHIONE 1051 TEM MILL</u>	10.00	77.50	43.00	333.25
<u>FREEZE STAGE</u>	20.00	88.25	86.00	379.48
<u>GATAN PIPS</u>	10.00	77.50	43.00	333.25
<u>MICRO BALANCE</u>	48.00	116.25	206.40	499.88
<u>MICROSCOPE AXIOSKOP</u>	37.00	105.25	159.10	452.58
<u>MICROSCOPE SZX16</u>	30.00	98.25	129.00	422.48
<u>PELCO SC7 SPUTTER COATER</u>	17.85/hr + 29.75/run	86.00/hr + 42.00/run	76.76/hr + 127.93/run	369.80/hr + 180.60/run
<u>PLASMA CLEANER</u>	37.00	105.25	159.10	452.58
<u>UV OZONE CLEANER</u>	28.00	96.25	120.40	413.88
<u>VTI GLOVE BOX</u>	17.85/hr + 17.85/run	86.00/hr + 30.00/run	76.76/hr + 76.76/run	369.80/hr + 129.00/run
OPTICAL SPECTROSCOPY				
<u>ALPHA300 APYRON CONFOCAL RAMAN</u>	52.50	120.75	225.75	519.23
<u>FTIR 6700</u>	33.00	101.25	141.90	435.38
<u>FTIR IS50</u>	33.00	101.25	141.90	435.38
<u>ICP AES 5100</u>	35.00	103.25	150.50	443.98
<u>LEICA STELLARIS CRS</u>	52.50	120.75	225.75	519.23
<u>RENISHAW REFLEX RAMAN</u>	37.00	105.25	159.10	452.58
<u>UVVISNIR PE1050</u>	30.00	98.25	129.00	422.48
SURFACE ANALYSIS				
<u>BRUKER TRIBOINDENTER NANOINDENTER</u>	49.00*	78.40	210.70*	337.12
<u>FILMETRICS REFLECTOMETER</u>	37.00	105.25	159.10	452.58
<u>PHI 700 AUGER</u>	44.00	112.25	189.20	482.68

<u>PHI VERSAPROBE XPS</u>	44.00	112.25	189.20	482.68
<u>PROFILOMETER XT</u>	44.00	112.25	189.20	482.68
<u>OCM-D</u>	33.00	101.25	141.90	435.38
X-RAY DIFFRACTION & IMAGING				
<u>BRUKER DISCOVER PLUS</u>	51.00**	119.25	219.30**	512.78
<u>HANDHELD XRF</u>	51.00	119.25	219.30	512.78
<u>LAUE</u>	51.00**	119.25	219.30**	512.78
<u>PANALYTICAL EMPYREAN</u>	51.00**	119.25	219.30**	512.78
<u>PANALYTICAL XPRT</u>	51.00**	119.25	219.30**	512.78
<u>SAXS</u>	51.00**	119.25	219.30**	512.78
<u>SMARTLAB</u>	51.00**	119.25	219.30**	512.78
<u>VERSA 620 XRM</u>	52.50	137.00	225.75	589.10
<u>XRAY INSPECTION</u>	42.00	84.00	180.60	361.20

Please note that rates are subject to change.

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

** Rate drops to 33% regular rate during overnight sessions.

TOOL	COST (\$/HR)					
RATES EFFECTIVE AUGUST 2026	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.