

Hourly Use Rates for the Material Research Laboratory Facilities

Rates for Private Sector companies and researchers.

If you have any questions, please contact the MRL Business Office at 217-333-1372. Rates valid from January 1, 2021 and are subject to change by ILLINOIS per terms agreed upon in LICENSEE's usage contract.

Center for Excellence in Soft Materials			
Instrument	Technique	Self Use (\$/hr)	Staff Assisted & Training (\$/hr)
Malvern Zetasizer	Particle Size and Zeta Potential Measurements	\$130	\$180
Metrohm 915 KF Ti-Touch	Volumetric Karl Fischer Titration	\$130	\$180
Metrohm 917 Coulometer	Coulometric Karl Fischer Titration	\$130	\$180
Novocontrol C47 Analyzer	Dielectric, Conductivity and Impedance Spectrometer	\$130	\$180
Q50-TGA	Thermogravimetric Analysis	\$130	\$180
Q800-DMA	Dynamic Mechanical Analysis	\$130	\$180
Shimadzu DTA-50	Differential Thermal Analysis	\$130	\$180
TA Affinity ITC	Isothermal Titration Calorimetry	\$130	\$180
TA DSC 2500	Differential Scanning Calorimetry	\$130	\$180
TA DHR-3 Rheometer	Discovery Hybrid Rheometer	\$130	\$180
Tosoh EcoSEC GPC	Gel Permeation Chromatography	\$130	\$180
Laser and Spectroscopy Facility			
Instrument	Technique	Self Use (\$/hr)	Staff Assisted & Training (\$/hr)
Agilent CARY 5000	Spectrophotometry	\$160	\$210
Custom Experiment	Custom Laser Experiments	\$160	\$210
Gaertner Ellipsometer	Ellipsometry	\$160	\$210
Inspire OPO Laser	Time-Domain Thermoreflectance, Custom Laser Experiments	\$160	\$210
Inverted Materials Microscope	Optical Microscopy	\$160	\$210
Keyence VK-X1000	Optical Profiler	\$170	\$220
Mid-IR Twin OPA Laser Source	Sum Frequency Generation, Transient Absorption	\$160	\$210
Montana Cryo Station	Closed He Cycle Optical Cryo Station	\$70	\$120
Nanophoton Raman 11	Raman Spectroscopy/Microscopy	\$160	\$210
Neaspec IR AFM	Tip Enhanced Infrared Spectroscopy	\$160	\$210
Newport Solar Simulator	Custom Experiments	\$160	\$210
Nicolet Nexus 670 FTIR	Fourier Transform Infrared Spectroscopy	\$160	\$210
OL 750 Spectroradiometer	Spectroradiometry	\$160	\$210
Rame-Hart Contact Angle	Contact Angle Goniometry	\$160	\$210
Photoluminescence	Photoluminescence/Fluorescence	\$160	\$210
SLM ISS Fluorometer	Photoluminescence/Fluorescence	\$160	\$210
Time Resolved PL	Photoluminescence/Fluorescence	\$160	\$210
Tsunami Ti-Sapphire Laser	Time-Domain Thermoreflectance	\$160	\$210
Tsunami Ti-Sapphire Laser 2	Time-Domain Thermoreflectance	\$160	\$210
Two Photon Microscopy	Optical Microscopy	\$160	\$210
Varian Cary5G UV-VIS-NIR	Spectrophotometry	\$160	\$210
Witec Alpha NSOM	Near Field Scanning Optical Microscopy	\$160	\$210
Woollam VAS Ellipsometer	Spectroscopic Ellipsometry	\$160	\$210
Zeiss LSM7 Confocal	Fluorescence Microscopy	\$160	\$210

Micro & Nano-Fabrication Facility			
Instrument	Technique	Self Use (\$/hr)	Staff Assisted & Training (\$/hr)
AJA Sputter Coater	Sputter Coater	\$160	\$210
AJA Sputter Coater 2	Sputter Coater	\$160	\$210
AJA Sputter Coater 3	Sputter Coater	\$160	\$210
AJA Sputter Coater 4	Sputter Coater	\$160	\$210
Atomic Layer Deposition	Atomic Layer Deposition	\$160	\$210
Atomic Layer Deposition 2	Atomic Layer Deposition	\$160	\$210
Ball Bonder	Ball Bonder	\$160	\$210
Cleanroom	Cleanroom	\$160	\$210
CM Furnace	Furnace	\$70	\$120
CNT Furnace	Furnace	\$70	\$120
Desert Cryo Probe Station	Probe Station	\$160	\$210
E-beam Evaporator 1	Electron Beam Evaporation	\$160	\$210
E-beam Evaporator 2	Electron Beam Evaporation	\$160	\$210
E-beam Evaporator 4	Electron Beam Evaporation	\$160	\$210
Graphene Furnace	Furnace for the growth of carbon nanotubes and graphene layers	\$70	\$120
Harrick Plasma Cleaner	Plasma Cleaner	\$160	\$210
Heidelberg Maskless Writer	Maskless wafer aligner	\$165	\$215
Hydrogen Vacuum Furnace	Furnace	\$70	\$120
Ion Mill Evaporator	Ion Mill & Thermal Evaporator	\$160	\$210
Jandel 4 Point Probe	Four point probe	\$160	\$210
Lindberg Three Zone Furnace - 2 inch	Furnace	\$70	\$120
March RIE	Reactive Ion Etcher for polymer samples	\$160	\$210
March RIE2	Reactive Ion Etcher for polymer samples	\$160	\$210
Mitutoyo Microscope	Optical Microscope	\$160	\$210
Nanomaster RIE	Reactive Ion Etcher for polymer samples	\$160	\$210
Nanoscribe 3D Printer	Laser lithography 3D printer	\$165	\$215
Olympus Microscope	Optical Microscope	\$160	\$210
Oven-Vacuum	Oven	\$70	\$120
PECVD	Plasma Enhanced Chemical Vapor Deposition	\$160	\$210
PECVD 2	Plasma Enhanced Chemical Vapor Deposition	\$160	\$210
Probe Station	Probe Station	\$160	\$210
Raith EBPG5150	Electron Beam Lithography	\$200	\$250
Raith e-Line	Electron Beam Lithography	\$160	\$210
RaithPrep	Cleanroom	\$160	\$210
Reactor Vacuum Furnace	Furnace	\$70	\$120
RIE	Reactive Ion Etcher	\$160	\$210
RTA Furnace	Furnace	\$160	\$210
Parylene Coater	Parylene Deposition - SCS Labcoater 2	\$160	\$210
Suss MJB3 - Deep UV	Mask Aligner - Deep UV	\$0	\$210
Suss MJB3 - Mask Aligner	Mask Aligner	\$0	\$210
Suss MJB4 - Mask Aligner	Mask Aligner	\$0	\$210
Thermal Evaporator	Thermal Evaporation	\$160	\$210
Tube Furnace - 6 inch	Furnace	\$70	\$120
Wedge Bonder	Wedge Bonder	\$160	\$210
Westbond Bonder	Wire Bonder	\$160	\$210

** Deposition of gold, platinum or palladium incurs an additional charge of \$4 per every 10 nm deposited or fraction thereof.

Microscopy-Biological			
Instrument	Technique	Self Use (\$/hr)	Staff Assisted & Training (\$/hr)
Bio-BioSEM	Bio SEM Prep	N/A	\$78
Bio-Embed	Embedding & Deparaffinization	N/A	\$78
Bio-EMScopeVM	VDL Scope Tech Time	N/A	\$93
Bio-LMSect	Trim & LM Sectioning	N/A	\$78
Bio-NegDevelop	Negative Development	N/A	\$95
Bio-NegScan	Negative Scanning	N/A	\$80
Bio-NegStain	Negative Staining & Grids	N/A	\$80
Bio-OptoMicro	Optical Camera Tech Time	N/A	\$220
Bio-TEMsect	Trim & TEM Sectioning	N/A	\$94
Reichert Ultracut	Microtome for TEM sample preparation	\$70	\$120
Microscopy-Scanning Probe			
Instrument	Technique	Self Use (\$/hr)	Staff Assisted & Training (\$/hr)
Asylum AFM 1	Atomic Force Microscopy	\$130	\$180
Asylum AFM 2	Atomic Force Microscopy	\$130	\$180
Asylum Cypher AFM	Atomic Force Microscopy/High Resolution	\$130	\$180
Dektak 3030	Surface Profilometry	\$130	\$180
Hysitron Tip	Nanoindentation	\$70	\$120
Hysitron TriboIndenter	Nanoindentation	\$130	\$180
Leitz Microhardness	Microhardness tester	\$70	\$120
Piuma Nanoindenter	Nanoindentation	\$130	\$180
Microscopy-Scanning Electron			
Instrument	Technique	Self Use (\$/hr)	Staff Assisted & Training (\$/hr)
HELIOS 600i FIB	Scanning Electron/Focused Ion Beam Microscopy	\$170	\$220
Hitachi S4700 SEM	Scanning Electron Microscopy/High Resolution	\$170	\$220
Hitachi S4800 SEM	Scanning Electron Microscopy/High Resolution	\$170	\$220
JEOL 6060LV SEM	Scanning Electron Microscopy/Low Vacuum	\$140	\$190
JEOL 7000F SEM	Scanning Electron Microscopy/Analytical SEM	\$170	\$220
Scios 2 FIB	Scanning Electron/Focused Ion Beam Microscopy	\$170	\$220
Microscopy-Transmission Electron			
Instrument	Technique	Self Use (\$/hr)	Staff Assisted & Training (\$/hr)
Hitachi 9500	Transmission Electron Microscopy	\$170	\$220
JEOL 2010 LaB6	Transmission Electron Microscopy	\$165	\$215
JEOL 2100 Cryo TEM	Transmission Electron Microscopy	\$165	\$215
Thermo Themis Z TEM-STEM	(Scanning) Transmission Electron Microscopy/Analytical	\$200	\$250
ThermoFisher Glacios Cryo-TEM	Cryo-TEM for Life Sciences	\$200	\$250
Physical Property Measurement			
Instrument	Technique	Self Use (\$/hr)	Staff Assisted & Training (\$/hr)
QD MPMS3 SQUID	Magnetic Property Measurement System	\$70	\$120
QD MPMS3 SQUID B	Magnetic Property Measurement System	\$70	\$120
QD PPMS	Physical Property Measurement System	\$71	\$121
QD PPMS B	Physical Property Measurement System	\$71	\$121

Surface Analysis			
Instrument	Technique	Self Use (\$/hr)	Staff Assisted & Training (\$/hr)
Cameca LEAP 5000XS APT	Local Electrode Atom Probe Tomography	\$200	\$250
KRATOS AXIS XPS	X-Ray Photoelectron Spectroscopy/Imaging XPS	\$160	\$210
NEC Pelletron	Ion Accelerator/Rutherford Backscattering Spectroscopy	\$160	\$210
PEI Trift-III TOF-SIMS	Secondary Ion Mass Spectroscopy/Time-of-Flight	\$160	\$210
PEI660 Auger	Auger Spectroscopy	\$160	\$210
X-ray Diffraction			
Instrument	Technique	Self Use (\$/hr)	Staff Assisted & Training (\$/hr)
Bruker D8 Advance	X-ray diffraction with high-temperature stage	\$160	\$210
Dexco Laue	X-ray Diffraction/Laue	\$160	\$210
Philips Xpert	X-Ray Diffraction/High Resolution, Point or Line Focus	\$160	\$210
SAXS	X-Ray Diffraction	\$160	\$210
Shimadzu EDXRF	X-Ray Fluorescence	\$160	\$210
Siemens-Bruker D5000 XRD	X-Ray Diffraction/Powder	\$160	\$210
Support Equipment			
Instrument	Technique	Self Use (\$/hr)	Staff Assisted & Training (\$/hr)
Allied Multiprep	TEM sample preparation	\$70	\$120
Carbon Rod Coater	SEM Carbon Coater	\$70	\$120
Carbon String Coater	SEM Carbon Coater	\$70	\$120
FEI Vitrobot	Cryo-plunge for TEM sample preparation	\$70	\$120
FEI Mark IV Vitrobot	Cryo-plunge for TEM sample preparation	\$70	\$120
Gatan CryoPIPS	Cryo-Ion Miller for TEM sample preparation	\$70	\$120
Gatan PECS II	Ion Miller for SEM sample preparation	\$70	\$120
Gatan PIPS	Ion Miller for TEM sample preparation	\$70	\$120
Leica EM UC6 Microtome	Microtome for TEM sample preparation	\$70	\$120
PicoIndenter	Nanoindentation	\$165	\$215
Princeton WS-25 Wire Saw	Wire Saw - High Precision	\$70	\$120
SEM Sputter Coater 1	SEM Sputter Coater	\$70	\$120
SEM Sputter Coater 2	SEM Sputter Coater	\$70	\$120
Tergeo EM Plasma Cleaner	Plasma Cleaner for TEM sample preparation	\$70	\$120
Vibratory Polisher 1	Vibratory Polisher	\$70	\$120
Vibratory Polisher 2	Vibratory Polisher	\$70	\$120