

CCMR Shared Facility Rates - Industry Use

(Updated August 21, 2024)

Some rates consist of a fixed charge plus an hourly rate or a minimum charge.

	Industry Rate
Manager Labor Rate (charged in addition to instrument rates below for assisted use)	\$184.00 /hr

Electron Microscopy

Arctica-S/TEM	\$7,235.28 /day
Transmission Electron Microscopes:	
Andromeda, Kraken	\$539.50 /hr
Perseus, Biotwin	\$280.00 /hr
Titan	\$360.00 /hr
Scanning Electron Microscopes	
Zeiss Gemini/Sigma, Tescan Mira	\$290.50 /hr
Keck	\$280.00 /hr
Thermo-Helios-G4-UX-FIB	\$472.23 /hr
FEI Strata 400 STEM FIB	\$386.37 /hr
TEM Sample Preparation:	
Allied Multiprep Polishers	\$110.25 /hr
Allied TechCut5 Precision High Speed Saw	\$133.75 /use
Leica Cryo- & Ultra- Microtomes	\$187.43 /hr
Vibratory Polisher	\$133.88 /use

Microscopy, Spectroscopy, Surface Analysis

Thermo Nexsa G2 XPS Surface Analysis System	\$351.00 /hr
	<i>night</i> \$283.50 /hr
Surface-Science-Instruments-SSX-100-XPS-System	\$50 + \$17.50 /hr
Keyence VK-X260 3D Laser Scanning Confocal Microscope	\$140.00 /hr
Asylum-MFP3D-Bio-AFM-SPM	\$160.78 /hr
Tencor Alpha Step 500 Stylus Profilometer	\$85.44 /hr
WITec-Alpha300R-Confocal-Raman-Microscope	\$202.50 /hr
Renishaw InVia Confocal Raman Microscope	\$202.50 /hr
3i-Marianias-Spinning-Disk-Confocal-Microscope	\$109.86 /hr
Bruker Hyperion FT-IR Spectrometer & Microscope	\$206.72 /hr
Bruker Vertex Vacuum FT-IR	\$206.72 /hr
Cary 5000 UV Vis NIR Spectrometer	\$168.75 /hr

Edinburgh FLS1000 Fluorescence and Lifetime Spectrometer		\$168.75 /hr
JASCO 1500 CD Spectrometer		\$168.75 /hr

Soft Matter/Polymer Analysis

TA Instruments DHR3 Single Head Rheometer	\$108 +	\$66.15 /hr
Thermo Fisher Capillary Breakup Extensional Rheometer (CaBER)		\$133.40 /hr
Bruker Autoflex Max MALDI		\$315.00 /hr
Waters Ambient-Temperature GPC		\$119.00 /hr
Waters Ambient-Temperature Aqueous GPC		\$119.00 /hr
Waters Breeze DMF-GPC		\$119.00 /hr
TA-Instruments-TGA-5500		\$102.00 /hr
TA Instruments Auto 2500 Differential Scanning Calorimeter		\$102.00 /hr

X-Ray and Diffraction Analysis

Rigaku SmartLab X-Ray Diffractometer		\$160.78 /hr
Bruker D8 General Area Detector Diffraction System (GADDS)	\$27 +	\$178.24 /hr
Bruker D8 Powder Diffractometer		\$178.24 /hr
Multiwire Back-Reflection Laue Detector		\$266.44 /hr

Mechanical Properties Testing and Analysis

TA Instruments DMA Q800 Dynamic Mechanical Thermal Analysis (DMTA)	\$31.50 +	\$148.47 /hr
TA Instruments Q400EM Thermomechanical Analysis (TMA)		\$156.00 /hr
Micro Hardness Tester	\$15.50 +	\$19.00 /hr
Linkham Microscope Tensile Stage	\$100 +	\$10.50 /hr
ATM Sonic sifter		\$32.00 /hr

Thin Film Deposition, and Material Processing

Varian Thermal Bell Jar Evaporator Clark Hall		\$200.00 /use
Sputter Deposition		\$265.00 /use
KSV-NIMA-KN4010 Dip Coater	\$21 +	\$60.24 /hr
KSV-NIMA-KN2002 Langmuir Blodgett Trough	\$42 +	\$60.24 /hr

Laurell WS-400A Spin Coater	\$31.25 +	\$52.00 /hr
Heat Treating		
furnace, ovens, air furnaces, controlled atmosphere furnaces, etc.	\$13 +	\$7.50 /hr
Carbolite 1600C Vacuum Tube Furnace	\$13 +	\$9.00 /hr

Electronic & Magnetic Measurements

Quantum Design Physical Property Measurement Systems (PPMS)	\$75 +	\$50.90 /hr
Quantum Design MPMS3 SQUID Magnetometer	\$75 +	\$63.00 /hr
Lakeshore Tabletop Magnetic-Cryogenic Probe System		\$39.38 /hr
Cascade CPS-06 Four Point Probe	\$19 +	\$48.67 /hr

Sample Preparation, Cutting, Polishing, etc.

Sample Prep

Enerpac Hydraulic Press		\$32.00 /hr
Buehler Simplemet II mounting press	\$20 +	\$32.00 /hr
Inert Gas Glove Box (+ monthly storage fee)		\$87.50 /use
Labconco Inert Gas GloveBox HQ Graphene 2D Xfer Station	\$48 +	\$27.00 /hr
Ball Mill		\$19.00 /hr
Spex 8000 MIXER /MILL	\$45 +	\$5.00 /hr

Cutting/Cleaning/Polishing

Glass Bead Abrasive Unit (sand blasting)-Clark		\$50.01 /hr
SS White Sand Blasting Unit	\$32 +	\$50.01 /hr
Struers Rotopol		\$84.24 /hr

Welding/Bonding

WestBond-747630E Wire Bonder	\$15.50 +	\$38.00 /hr
TPT HB05 Manual Wire Bonder	\$15.50 +	\$38.00 /hr
Portable Spot Welder Hughes HRW250B (Clark Hall)	\$25.8 +	\$2 /hr

Test Equipment Lending Library

(more info at <http://www.ccmr.cornell.edu/instruments/test-equipment-library/>)

Visit the library in D21 Clark Hall to see all instruments, rates, or to consult with staff)

8000-Varian-979-Helium-Leak-Detector	\$16 +	\$5.00 /hr
8003 Helium Leak Detector	\$16 +	\$5.00 /hr
8001-8002 - Portable RGA Pump Stations (Extorr or SRS)	\$16 +	\$2.00 /hr
8010-8013 - Portable Turbo Pump Stations (Clark & Bard)	\$6 +	\$2.00 /hr
8020-8024 - Rough Pumps (Clark Hall)	\$6 +	\$0.39 /hr
9000, 9016 - Stanford Research SR844 RF Lock-in Amplifier	\$6 +	\$0.30 /hr
9001-9009, 9017 - Signal Recovery 7265 Lock-in Amplifiers	\$6 +	\$0.17 /hr
9015 - Zurich Instruments 50MHz HF2LI Lock-in Amplifier	\$6 +	\$0.74 /hr
9014, 9018 - Signal Recovery 7270 Dual Lock-in Amplifier	\$6 +	\$0.24 /hr
9023-9025 - Signal Recovery 5113 Preamplifiers	\$6 +	\$0.10 /hr
9026-9030 - Stanford Research SR560 Low Noise Amplifiers	\$6 +	\$0.10 /hr
9040-9045 - Agilent E3630A Triple Output Power Supplies	\$6 +	\$0.03 /hr
9060-9065 - Yokogawa 7651 DC Programmable Power Sources	\$6 +	\$0.13 /hr
9070 - Agilent 33250A 80MHz Arbitrary Waveform Generator	\$6 +	\$0.15 /hr
9072-9076 - HP 3325A Function Generators	\$6 +	\$0.07 /hr
9079 - Agilent 33250A-80MHz Arbitrary Waveform Generator	\$6 +	\$0.15 /hr
9080-9084 - Agilent E8257 PSG Analog Signal Generators	\$6 +	\$0.75 /hr
9085 - HP 8657B 2GHz Signal Generator	\$6 +	\$0.07 /hr
9091-9092 - Picosecond 10070A Pulse Generators	\$6 +	\$0.54 /hr
9107-9109 - Agilent 200MHz Digital Oscilloscopes	\$6 +	\$0.09 /hr
9112 - LeCroy 8500A Wavemaster Oscilloscope	\$6 +	\$0.74 /hr
9120 - Agilent 35670A 102kHz Dynamic Signal Analyzer	\$6 +	\$0.60 /hr
9121 - Agilent E5061A 1.5GHz Network Analyzer	\$6 +	\$0.20 /hr
9122 - Hewlett Packard 8753D 6GHz Network Analyzer	\$6 +	\$0.64 /hr
9123 - Agilent 8722ES Network Analyzer	\$6 +	\$0.74 /hr
9131 - Agilent E4408B 26.5GHz Spectrum Analyzer	\$6 +	\$0.74 /hr
9133 - Agilent 8563E Spectrum Analyzer	\$6 +	\$0.17 /hr
9141-9144 - FW Bell Hall Probes	\$6 +	\$0.07 /hr
9152 - Extech IRC40 Thermal imager	\$6 +	\$0.07 /hr
9164-9167 Keithley Sourcemeters	\$6 +	\$0.19 /hr
9168-9169 Keithley Sourcemeters	\$6 +	\$0.15 /hr

9170-Andeen-Hagerling-2700A-Multi-frequency-Capacitance/Loss-Bridge	\$6 +	\$0.74 /hr
9171-Agilent-4284A-Precision-LCR-Meter	\$6 +	\$0.51 /hr
9180-9186 - National-Instruments USB-GPIB adaptors	\$6 +	\$0.03 /hr