

CCMR Shared Facility Rates - Industry/For-profit Use

(Updated July 1, 2023)

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)	\$178.00 /Hr
Electron Microscopy	
Arctica-S/TEM	\$275.00/Hr
Transmission Electron Microscopes:	
Andromeda, Kraken, Titan, Perseus, Biotwin	\$540.00 /Hr
Scanning Electron Microscopes	
Zeiss Gemini/Leo/Sigma, Tescan Mira	\$267.00 /Hr
Thermo-Helios-G4-UX-FIB	\$375.00 /Hr
FEI Strata 400 STEM FIB	\$375.00 /Hr
TEM Sample Preparation:	
Allied Multiprep Polishers	\$107.50 /Hr
Allied TechCut5 Precision High Speed Saw	\$149.50 /Hr
Leica Cryo- & Ultra- Microtomes	\$149.50 /Hr
Vibratory Polisher	\$149.50 /Hr
Microscopy, Spectroscopy, Surface Analysis	
Thermo Nexsa G2 XPS Surface Analysis System	\$322.50 /Hr
Surface-Science-Instruments-SSX-100-XPS-System	\$155.00 /Hr
Keyence VK-X260 3D Laser Scanning Confocal Microscope	\$184.35 /Hr
Asylum-MFP3D-Bio-AFM-SPM	\$184.35 /Hr
Tencor Alpha Step 500 Stylus Profilometer	\$92.20 /Hr
WITec-Alpha300R-Confocal-Raman-Microscope	\$212.50 /Hr
Renishaw InVia Confocal Raman Microscope	\$184.35 /Hr
3i-Marianias-Spinning-Disk-Confocal-Microscope	\$104.10 /Hr
Bruker Hyperion FT-IR Spectrometer & Microscope	\$184.35 /Hr
Bruker Vertex Vacuum FT-IR	\$184.35 /Hr
Cary 5000 UV Vis NIR Spectrometer	\$156.65 /Hr
Edinburgh FLS1000 Fluorescence and Lifetime Spectrometer	\$156.65 /Hr
JASCO 1500 CD Spectrometer	\$156.65 /Hr
DropletLab Contact Angle Instrument	\$50.00 /Hr

Soft Matter/Polymer Analysis

TA Instruments DHR3 Single Head Rheometer		\$144.50 /Hr
Thermo Fisher Capillary Breakup Extensional Rheometer (CaBER)		\$145.50 /Hr
Bruker Autoflex Max MALDI	\$125 +	\$332.00 /Hr
Waters Ambient-Temperature GPC		\$97.00 /Hr
Waters Ambient-Temperature Aqueous GPC		\$97.00 /Hr
Waters Breeze DMF-GPC		\$97.00 /Hr
TA-Instruments-TGA-5500		\$97.00 /Hr
TA Instruments Auto 2500 Differential Scanning Calorimeter		\$97.00 /Hr

X-Ray and Diffraction Analysis

Rigaku SmartLab X-Ray Diffractometer		\$184.35 /Hr
Bruker D8 General Area Detector Diffraction System (GADDS)	\$27 +	\$182.70 /Hr
Bruker D8 Powder Diffractometer		\$182.70 /Hr
Multiwire Back-Reflection Laue Detector		\$210.40 /Hr

Mechanical Properties Testing and Analysis

TA Instruments DMA Q800 Dynamic Mechanical Thermal Analysis (DMTA)	\$31.50 +	\$132.25 /Hr
TA Instruments Q400EM Thermomechanical Analysis (TMA)		\$100.20 /Hr
Micro Hardness Tester	\$15.50 +	\$18.25 /Hr
Linkham Microscope Tensile Stage		\$71.50 /Hr
ATM Sonic sifter		\$31.00 /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 +	\$49.80 / Hr
KSV-NIMA-KN2002 Langmuir Blodgett Trough	\$42 +	\$49.80 / Hr
Laurell WS-400A Spin Coater	\$31.25 +	\$50.00 / Hr

Heat Treating

All furnaces/oven in Clark and Bard: Vacuum tube furnace, ovens, air furnaces, controlled atmosphere furnaces, etc.	\$13 +	\$6.65 / Hr
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Electronic & Magnetic Measurements

Quantum Design Physical Property Measurement Systems (PPMS)	\$75 +	\$41.55 / Hr
Quantum Design MPMS3 SQUID Magnetometer	\$75 +	\$52.00 / Hr
Lakeshore Tabletop Magnetic-Cryogenic Probe System		\$37.10 / Hr
Cascade CPS-06 Four Point Probe	\$19 +	\$38.20 / Hr

Sample Preparation, Cutting, Polishing, etc.

Sample Prep

Enerpac Hydraulic Press		\$31.00 / Hr
Buehler Simplemet II mounting press	\$20 +	\$31.00 / Hr
Inert Gas Glove Box (+ monthly storage fee)		\$48.00 / use
Labconco Inert Gas GloveBox HQ Graphene 2D Xfer Station	\$48 +	\$25.80 / Hr
Ball Mill		\$18.25 / Hr
Spex 8000 MIXER /MILL	\$45 +	\$4.00 / Hr

Cutting/Cleaning/Polishing

Allied TechCut5 Precision High Speed Saw		\$149.45 /hr
Glass Bead Abrasive Unit (sand blasting)-Clark		\$49.55 / Hr
SS White Sand Blasting Unit	\$32 +	\$49.55 / Hr
Struers Rotopol		\$74.70 /hr
Vibratory Polisher		\$149.40 /hr

Welding/Bonding

WestBond-747630E Wire Bonder	\$15.50 +	\$36.30 /hr
TPT HB05 Manual Wire Bonder	\$15.50 +	\$36.30 /hr
Portable Spot Welder Hughes HRW250B (Clark Hall)	\$26 +	\$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, 8003 - Helium Leak Detectors	\$16 +	\$4.57 /hr
8001-8002 - Portable RGA Pump Stations (Extorr or SRS)	\$16 +	\$1.82 /hr
8010-8013 - Portable Turbo Pump Stations (Clark & Bard)	\$6 +	\$1.83 /hr
8020-8024 - Rough Pumps (Clark Hall)	\$6 +	\$0.46 /hr
9000, 9016 - Stanford Research SR844 RF Lock-in Amplifier	\$6 +	\$0.58 /hr
9001-9009, 9017 - Signal Recovery 7265 Lock-in Amplifiers	\$6 +	\$0.30 /hr
9015 - Zurich Instruments 50MHz HF2LI Lock-in Amplifier	\$6 +	\$1.38 /hr
9014, 9018 - Signal Recovery 7270 Dual Lock-in Amplifier	\$6 +	\$0.42 /hr
9023-9025 - Signal Recovery 5113 Preamplifiers	\$6 +	\$0.16 /hr
9026-9030 - Stanford Research SR560 Low Noise Amplifiers	\$6 +	\$0.16 /hr
9040-9045 - Agilent E3630A Triple Output Power Supplies	\$6 +	\$0.03 /hr
9060-9065 - Yokogawa 7651 DC Programmable Power Sources	\$6 +	\$0.22 /hr

9070 - Agilent 33250A 80MHz Arbitrary Waveform Generator	\$6 +	\$0.25 /hr
9072-9076 - HP 3325A Function Generators	\$6 +	\$0.09 /hr
9079 - Agilent 33250A-80MHz Arbitrary Waveform Generator	\$6 +	\$0.25 /hr
9080-9084 - Agilent E8257 PSG Analog Signal Generators	\$6 +	\$1.38 /hr
9085 - HP 8657B 2GHz Signal Generator	\$6 +	\$0.10 /hr
9091-9092 - Picosecond 10070A Pulse Generators	\$6 +	\$0.99 /hr
9107-9109 - Agilent 200MHz Digital Oscilloscopes	\$6 +	\$0.14 /hr
9112 - LeCroy 8500A Wavemaster Oscilloscope	\$6 +	\$1.38 /hr
9120 - Agilent 35670A 102kHz Dynamic Signal Analyzer	\$6 +	\$1.05 /hr
9121 - Agilent E5061A 1.5GHz Network Analyzer	\$6 +	\$0.39 /hr
9122 - Hewlett Packard 8753D 6GHz Network Analyzer	\$6 +	\$1.16 /hr
9123 - Agilent 8722ES Network Analyzer	\$6 +	\$1.38 /hr
9131 - Agilent E4408B 26.5GHz Spectrum Analyzer	\$6 +	\$1.38 /hr
9133 - Agilent 8563E Spectrum Analyzer	\$6 +	\$0.30 /hr
9141-9144 - FW Bell Hall Probes	\$6 +	\$0.10 /hr
9152 - Extech IRC40 Thermal imager	\$6 +	\$0.10 /hr
9164-9169 Keithley Sourcemeters	\$6 +	\$0.32 /hr
9170-Andeen-Hagerling-2700A-Multi-frequency-Capacitance/Loss-Bridge	\$6 +	\$1.38 /hr
9171-Agilent-4284A-Precision-LCR-Meter	\$6 +	\$0.92 /hr
9180-9186 - National-Instruments USB-GPIB adaptors	\$6 +	\$0.04 /hr

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Bruker Hyperion FT-IR Spectrometer & Microscope

Bruker Vertex Vacuum FT-IR

Cary 5000 UV Vis NIR Spectrometer

Edinburgh FLS1000 Fluorescence and Lifetime Spectrometer

JASCO 1500 CD Spectrometer

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Thermo Fisher Capillary Breakup Extensional Rheometer (CaBER)
Bruker Autoflex Max MALDI
JAI-LC9110NEXT-Recycling-Preparative-GPC
Waters Ambient-Temperature GPC
Waters Ambient-Temperature Aqueous GPC
Waters Breeze DMF-GPC
TA-Instruments-TGA-5500
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Inert Gas Glove Box (+ monthly storage fee)

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Ball Mill

Spex 8000 MIXER /MILL

Cutting/Cleaning/Polishing

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Glass Bead Abrasive Unit (sand blasting)-Clark

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