

CCMR Shared Facility Rates - Academic Use

(Updated April 24, 2024)

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

For academic users, use exceeding \$12.5k in the calendar year will be charged at 60% of the normal instrument use fee.

	Academic Rate
Manager Labor Rate (charged in addition to instrument rates below for assisted use)	\$107.50 /Hr

Electron Microscopy

Arctica-S/TEM	\$1,050 / day
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Transmission Electron Microscopes:

Andromeda, Kraken, Titan, Perseus, Biotwin	\$75.50 / Hr
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Scanning Electron Microscopes

Zeiss Gemini/Leo/Sigma, Tescan Mira	\$75.50 / Hr
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Thermo-Helios-G4-UX-FIB	\$99.00 / Hr
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FEI Strata 400 STEM FIB	\$81.00 / Hr
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TEM Sample Preparation:

Allied Multiprep Polishers	\$30.00 / Hr
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Allied TechCut5 Precision High Speed Saw	\$51.00 / Hr
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Leica Cryo- & Ultra- Microtomes	\$51.00 / Hr
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Vibratory Polisher	\$51.00 / Hr
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Microscopy, Spectroscopy, Surface Analysis

Thermo Nexsa G2 XPS Surface Analysis System	\$75.50 / Hr
Night rate	\$62.50 / Hr

Surface-Science-Instruments-SSX-100-XPS-System	\$30.00 / Hr
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Keyence VK-X260 3D Laser Scanning Confocal Microscope	\$43.75 / Hr
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Asylum-MFP3D-Bio-AFM-SPM	\$43.75 / Hr
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Tencor Alpha Step 500 Stylus Profilometer	\$23.25 / Hr
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WITec-Alpha300R-Confocal-Raman-Microscope	\$47.50 / Hr
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Renishaw InVia Confocal Raman Microscope	\$43.75 / Hr
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3i-Marianias-Spinning-Disk-Confocal-Microscope	\$23.25 / Hr
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Bruker Hyperion FT-IR Spectrometer & Microscope	\$43.75 / Hr
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Bruker Vertex Vacuum FT-IR	\$43.75 / Hr
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Cary 5000 UV Vis NIR Spectrometer	\$35.70 / Hr ‡
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Edinburgh FLS1000 Fluorescence and Lifetime Spectrometer	\$35.70 / Hr ‡
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JASCO 1500 CD Spectrometer	\$35.70 / Hr ‡
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DropletLab Contact Angle Instrument	\$12.60/ Hr ‡
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‡\$10.50 minimum charge

Soft Matter/Polymer Analysis

TA Instruments DHR3 Single Head Rheometer		\$36.25 / Hr
Thermo Fisher Capillary Breakup Extensional Rheometer (CaBER)		\$36.30 / Hr
Bruker Autoflex Max MALDI		\$120.00 / Hr
Waters Ambient-Temperature GPC		\$32.40 / Hr
Waters Ambient-Temperature Aqueous GPC		\$32.40 / Hr
Waters Breeze DMF-GPC		\$32.40 / Hr
TA-Instruments-TGA-5500		\$32.40 / Hr
TA Instruments Auto 2500 Differential Scanning Calorimeter		\$32.40 / Hr

X-Ray and Diffraction Analysis

Rigaku SmartLab X-Ray Diffractometer		\$43.75 / Hr
Bruker D8 General Area Detector Diffraction System (GADDS)	\$7.50 +	\$48.50 / Hr
Bruker D8 Powder Diffractometer		\$48.50 / Hr
Multiwire Back-Reflection Laue Detector		\$72.50 / Hr

Mechanical Properties Testing and Analysis

TA Instruments DMA Q800 Dynamic Mechanical Thermal Analysis (DMTA)	\$16 +	\$40.40 / Hr
TA Instruments Q400EM Thermomechanical Analysis (TMA)		\$49.55 / Hr
Micro Hardness Tester	\$6 +	\$6.00 / Hr
Linkham Microscope Tensile Stage		\$18.00 / Hr
ATM Sonic sifter		\$12.40 / Hr

Thin Film Deposition, and Material Processing

Varian Thermal Bell Jar Evaporator Clark Hall		\$80.50 / use
Sputter Deposition		\$115.00 / use
KSV-NIMA-KN4010 Dip Coater	\$5.25 +	\$12.75 / Hr
KSV-NIMA-KN2002 Langmuir Blodgett Trough	\$10.50 +	\$12.75 / Hr
Laurell WS-400A Spin Coater	\$10.50 +	\$10.50 / Hr

Heat Treating

All furnaces/oven in Clark and Bard: Vacuum tube furnace, ovens, air furnaces, controlled atmosphere furnaces, etc.	\$6 +	\$2.99 / Hr
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Electronic & Magnetic Measurements

Quantum Design Physical Property Measurement Systems (PPMS)	\$35 +	\$13.85 / Hr
Quantum Design MPMS3 SQUID Magnetometer	\$35 +	\$17.15 / Hr
Lakeshore Tabletop Magnetic-Cryogenic Probe System		\$15.00 / Hr
Cascade CPS-06 Four Point Probe	\$6 +	\$18.54 / Hr

Sample Preparation, Cutting, Polishing, etc.

Sample Prep

Enerpac Hydraulic Press		\$12.50 / Hr
Buehler Simplemet II mounting press	\$10 +	\$12.75 / Hr
Inert Gas Glove Box (+ monthly storage fee)		\$24.00 / use
Labconco Inert Gas GloveBox HQ Graphene 2D Xfer Station	\$16 +	\$8.60 / Hr
Ball Mill		\$6.34 / Hr
Spex 8000 MIXER /MILL	\$23 +	\$2.00 / Hr

Cutting/Cleaning/Polishing

Allied TechCut5 Precision High Speed Saw		\$50.95 / Hr
Glass Bead Abrasive Unit (sand blasting)-Clark		\$19.05 / Hr
SS White Sand Blasting Unit	\$10 +	\$19.05 / Hr
Struers Rotopol		\$32.09 / Hr
Vibratory Polisher		\$51.00 / Hr

Welding/Bonding

WestBond-747630E Wire Bonder	\$5 +	\$12.20 /Hr
TPT HB05 Manual Wire Bonder	\$5 +	\$12.20 /Hr
Portable Spot Welder Hughes HRW250B (Clark Hall)	\$13 +	\$1 /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 +	\$2.26 /Hr
8001-8002 - Portable RGA Pump Stations (Extorr or SRS)	\$16 +	\$0.59 /hr
8010-8013 - Portable Turbo Pump Stations (Clark & Bard)	\$6 +	\$0.59 /hr
8020-8024 - Rough Pumps (Clark Hall)	\$6 +	\$0.24 /hr
9000, 9016 - Stanford Research SR844 RF Lock-in Amplifier	\$6 +	\$0.19 /hr
9001-9009, 9017 - Signal Recovery 7265 Lock-in Amplifiers	\$6 +	\$0.10 /hr
9015 - Zurich Instruments 50MHz HF2LI Lock-in Amplifier	\$6 +	\$0.45 /hr
9014, 9018 - Signal Recovery 7270 Dual Lock-in Amplifier	\$6 +	\$0.14 /hr
9023-9025 - Signal Recovery 5113 Preamplifiers	\$6 +	\$0.06 /hr
9026-9030 - Stanford Research SR560 Low Noise Amplifiers	\$6 +	\$0.06 /hr
9040-9045 - Agilent E3630A Triple Output Power Supplies	\$6 +	\$0.02 /hr
9060-9065 - Yokogawa 7651 DC Programmable Power Sources	\$6 +	\$0.08 /hr
9070 - Agilent 33250A 80MHz Arbitrary Waveform Generator	\$6 +	\$0.09 /hr
9072-9076 - HP 3325A Function Generators	\$6 +	\$0.04 /hr
9079 - Agilent 33250A-80MHz Arbitrary Waveform Generator	\$6 +	\$0.09 /hr
9080-9084 - Agilent E8257 PSG Analog Signal Generators	\$6 +	\$0.45 /hr
9085 - HP 8657B 2GHz Signal Generator	\$6 +	\$0.04 /hr
9091-9092 - Picosecond 10070A Pulse Generators	\$6 +	\$0.33 /hr
9107-9109 - Agilent 200MHz Digital Oscilloscopes	\$6 +	\$0.05 /hr
9112 - LeCroy 8500A Wavemaster Oscilloscope	\$6 +	\$0.45 /hr
9120 - Agilent 35670A 102kHz Dynamic Signal Analyzer	\$6 +	\$0.36 /hr
9121 - Agilent E5061A 1.5GHz Network Analyzer	\$6 +	\$0.12 /hr
9122 - Hewlett Packard 8753D 6GHz Network Analyzer	\$6 +	\$0.39 /hr
9123 - Agilent 8722ES Network Analyzer	\$6 +	\$0.45 /hr
9131 - Agilent E4408B 26.5GHz Spectrum Analyzer	\$6 +	\$0.45 /hr
9133 - Agilent 8563E Spectrum Analyzer	\$6 +	\$0.10 /hr
9141-9144 - FW Bell Hall Probes	\$6 +	\$0.04 /hr
9152 - Extech IRC40 Thermal imager	\$6 +	\$0.04 /hr
9164-9169 Keithley Sourcemeters	\$6 +	\$0.11 /hr
9170-Andeen-Hagerling-2700A-Multi-frequency-Capacitance/Loss-Bridge	\$6 +	\$0.45 /hr
9171-Agilent-4284A-Precision-LCR-Meter	\$6 +	\$0.31 /hr
9180-9186 - National-Instruments USB-GPIB adaptors	\$6 +	\$0.02 /hr