

CCMR Shared Facility Rates - External non-Profit Use

(Updated July 31, 2025)

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

Ext. Acad. Rate

Manager Labor Rate (charged in addition to instrument rates below for assisted use)	\$193.00 /hr
--	--------------

Electron Microscopy

Arctica-S/TEM (pre-committed daily rate overrides hourly rate)	\$131.20 /hr
Krios-S/TEM	Please contact us for details
Transmission Electron Microscopes:	
Andromeda, Kraken	\$152.00 /hr
Perseus, F200ci, Titan	\$141.70 /hr
Titan	\$141.70 /hr
Scanning Electron Microscopes	
Zeiss Gemini/Sigma, Tescan Mira	\$152.00 /hr
Keck	\$141.70 /hr
Thermo-Helios-G4-UX-FIB	\$186.00 /hr
Tescan-Xeus-Plasma-FIB	\$186.00 /hr

TEM Sample Preparation:

Allied Multiprep Polishers	\$54.00 /hr
Allied TechCut5 Precision High Speed Saw	\$92.00 /use
Leica Cryo- & Ultra- Microtomes	\$92.20 /hr
Vibratory Polisher	\$92.00 /use

Microscopy, Spectroscopy, Surface Analysis

Thermo Nexsa G2 XPS Surface Analysis System	\$143.00 /hr
<i>Nexsa night rate</i>	\$125.00 /hr
Keyence VK-X260 3D Laser Scanning Confocal Microscope	\$70.85 /hr
Asylum-MFP3D-Bio-AFM-SPM	\$79.00 /hr
Tencor Alpha Step 500 Stylus Profilometer	\$43.25 /hr
WITec-Alpha300R-Confocal-Raman-Microscope	\$79.70 /hr
<i>WiTec night rate</i>	\$52.00 /hr
Renishaw InVia Confocal Raman Microscope	\$79.70 /hr
3i-Marianias-Spinning-Disk-Confocal-Microscope	\$42.00 /hr
Bruker Hyperion FT-IR Spectrometer & Microscope	\$81.25 /hr
Bruker Vertex Vacuum FT-IR	\$81.25 /hr
Cary 5000 UV Vis NIR Spectrometer	\$66.40 /hr
Edinburgh FLS1000 Fluorescence and Lifetime Spectrometer	\$66.40 /hr

JASCO 1500 CD Spectrometer		\$66.40 /hr
----------------------------	--	-------------

Soft Matter/Polymer Analysis

TA Instruments DHR3 Single Head Rheometer	\$26 +	\$32.50 /hr
Thermo Fisher Capillary Breakup Extensional Rheometer (CaBER)		\$67.50 /hr
Bruker Autoflex Max MALDI		\$223.00 /hr
Waters Ambient-Temperature GPC		\$60.20 /hr
Waters Ambient-Temperature Aqueous GPC		\$60.20 /hr
Waters Breeze DMF-GPC		\$60.20 /hr
TA-Instruments-TGA-5500		\$59.00 /hr
TA Instruments Auto 2500 Differential Scanning Calorimeter		\$65.50 /hr

X-Ray and Diffraction Analysis

Rigaku SmartLab X-Ray Diffractometer		\$81.35 /hr
Bruker D8 General Area Detector Diffraction System (GADDs)	\$15 +	\$90.00 /hr
Bruker D8 Powder Diffractometer		\$90.00 /hr
Multiwire Back-Reflection Laue Detector		\$134.80 /hr

Mechanical Properties Testing and Analysis

TA Instruments DMA Q800 Dynamic Mechanical Thermal Analysis (DMTA)	\$16 +	\$75.00 /hr
TA Instruments Q400EM Thermomechanical Analysis (TMA)		\$92.00 /hr
Micro Hardness Tester	\$6 +	\$10.30 /hr
Linkham Microscope Tensile Stage	\$100 +	\$5.17 /hr
ATM Sonic sifter		\$21.50 /hr

Thin Film Deposition, and Material Processing

Varian Thermal Bell Jar Evaporator Clark Hall		\$149.50 /use
Sputtering Deposition System		\$214.00 /use
KSV-NIMA-KN4010 Dip Coater	\$5.25 +	\$23.00 /hr
KSV-NIMA-KN2002 Langmuir Blodgett Trough	\$10.50 +	\$23.00 /hr
Laurell WS-400A Spin Coater	\$10.50 +	\$21.50 /hr

Heat Treating

Carbolite 1600C Vacuum Tube Furnace	\$6 +	\$6.20 /hr
All other furnaces/oven in Clark and Bard: Vacuum tube furnace, ovens, air furnaces, controlled atmosphere furnaces, etc.	\$6 +	\$5.15 /hr

Electronic & Magnetic Measurements

Quantum Design Physical Property Measurement Systems (PPMS)	\$35 +	\$25.75 /hr
Quantum Design MPMS3 SQUID Magnetometer	\$35 +	\$31.80 /hr
Lakeshore Tabletop Magnetic-Cryogenic Probe System		\$27.10 /hr
Cascade CPS-06 Four Point Probe	\$6 +	\$33.50 /hr

Sample Preparation, Cutting, Polishing, etc.

Sample Prep

Enerpac Hydraulic Press		\$21.50 /hr
Buehler Simplemet II mounting press	\$10 +	\$21.50 /hr
Inert Gas Glove Box (+ monthly storage fee)		\$44.25 /use
Labstar-Pro-Glovebox-2D-Transfer-Station	\$16 +	\$15.20 /hr
Ball Mill		\$10.90 /hr
Spex 8000 MIXER /MILL	\$23 +	\$3.44 /hr

Cutting/Cleaning/Polishing

Glass Bead Abrasive Unit (sand blasting)-Clark		\$34.40 /hr
SS White Sand Blasting Unit	\$10 +	\$34.40 /hr
Struers Rotopol		\$58.00 /hr

Welding/Bonding

WestBond-747630E Wire Bonder	\$5 +	\$21.50 /hr
TPT HB05 Manual Wire Bonder	\$5 +	\$21.50 /hr

Test Equipment Lending Library

(more info at <https://www.ccmr.cornell.edu/facilities/instruments/instrument-lending-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 +	\$3.40 /hr
8003 Pfeiffer-ASM-340-Dry Helium Leak Detector	\$16 +	\$4.30 /hr
8001-8002 - Portable RGA Pump Stations (Extorr or SRS)	\$16 +	\$1.72 /hr
8010-8013 - Portable Turbo Pump Stations (Clark & Bard)	\$6 +	\$1.02 /hr
8020-8024 - Rough Pumps (Clark Hall)	\$6 +	\$0.41 /hr
9000, 9016 - Stanford Research SR844 RF Lock-in Amplifier	\$6 +	\$0.33 /hr
9001-9009, 9017 - Signal Recovery 7265 Lock-in Amplifiers	\$6 +	\$0.17 /hr
9015 - Zurich Instruments 50MHz HF2LI Lock-in Amplifier	\$6 +	\$0.78 /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 +	\$0.04 /hr
9060-9065 - Yokogawa 7651 DC Programmable Power Sources	\$6 +	\$0.14 /hr
9070 - Agilent 33250A 80MHz Arbitrary Waveform Generator	\$6 +	\$0.16 /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 +	\$0.78 /hr
9085 - HP 8657B 2GHz Signal Generator	\$6 +	\$0.07 /hr
9091-9092 - Picosecond 10070A Pulse Generators	\$6 +	\$0.57 /hr
9107-9109 - Agilent 200MHz Digital Oscilloscopes	\$6 +	\$0.09 /hr
9112 - LeCroy 8500A Wavemaster Oscilloscope	\$6 +	\$0.78 /hr
9120 - Agilent 35670A 102kHz Dynamic Signal Analyzer	\$6 +	\$0.62 /hr
9121 - Agilent E5061A 1.5GHz Network Analyzer	\$6 +	\$0.21 /hr
9122 - Hewlett Packard 8753D 6GHz Network Analyzer	\$6 +	\$0.67 /hr
9123 - Agilent 8722ES Network Analyzer	\$6 +	\$0.78 /hr
9131 - Agilent E4408B 26.5GHz Spectrum Analyzer	\$6 +	\$0.78 /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 +	\$0.19 /hr
9170-Andeen-Hagerling-2700A-Multi-frequency-Capacitance/Loss-Bridge	\$6 +	\$0.78 /hr
9171-Agilent-4284A-Precision-LCR-Meter	\$6 +	\$0.53 /hr
9180-9186 - National-Instruments USB-GPIB adaptors	\$6 +	\$0.03 /hr

CCMR Shared Facility Rates - External non-Profit Use

(Updated July 31, 2025)

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

Manager Labor Rate (charged in addition to instrument rates
below for assisted use)

Electron Microscopy

Arctica-S/TEM (pre-committed daily rate overrides hourly rate)

Krios-S/TEM

Transmission Electron Microscopes:

Andromeda, Kraken

Perseus, F200ci, Titan

Titan

Scanning Electron Microscopes

Zeiss Gemini/Sigma, Tescan Mira

Keck

Thermo-Helios-G4-UX-FIB

Tescan-Xeus-Plasma-FIB

TEM Sample Preparation:

Allied Multiprep Polishers

Allied TechCut5 Precision High Speed Saw

Leica Cryo- & Ultra- Microtomes

Vibratory Polisher

Microscopy, Spectroscopy, Surface Analysis

Thermo Nexsa G2 XPS Surface Analysis System

Nexsa night rate

Keyence VK-X260 3D Laser Scanning Confocal Microscope

Asylum-MFP3D-Bio-AFM-SPM

Tencor Alpha Step 500 Stylus Profilometer

WITec-Alpha300R-Confocal-Raman-Microscope

WiTec night rate

Renishaw InVia Confocal Raman Microscope

3i-Marianias-Spinning-Disk-Confocal-Microscope

Bruker Hyperion FT-IR Spectrometer & Microscope

Bruker Vertex Vacuum FT-IR

Cary 5000 UV Vis NIR Spectrometer

‡

Edinburgh FLS1000 Fluorescence and Lifetime Spectrometer

‡

Soft Matter/Polymer Analysis

TA Instruments DHR3 Single Head Rheometer

Thermo Fisher Capillary Breakup Extensional Rheometer (CaBER)

Bruker Autoflex Max MALDI

Waters Ambient-Temperature GPC

Waters Ambient-Temperature Aqueous GPC

Waters Breeze DMF-GPC

TA-Instruments-TGA-5500

TA Instruments Auto 2500 Differential Scanning Calorimeter

X-Ray and Diffraction Analysis

Rigaku SmartLab X-Ray Diffractometer

Bruker D8 General Area Detector Diffraction System (GADDS)

Bruker D8 Powder Diffractometer

Multiwire Back-Reflection Laue Detector

Mechanical Properties Testing and Analysis

TA Instruments DMA Q800 Dynamic Mechanical Thermal Analysis (DMTA)

TA Instruments Q400EM Thermomechanical Analysis (TMA)

Micro Hardness Tester

Linkham Microscope Tensile Stage

ATM Sonic sifter

Thin Film Deposition, and Material Processing

Varian Thermal Bell Jar Evaporator Clark Hall

Sputtering Deposition System

KSV-NIMA-KN4010 Dip Coater

KSV-NIMA-KN2002 Langmuir Blodgett Trough

Laurell WS-400A Spin Coater

Heat Treating

Carbolite 1600C Vacuum Tube Furnace

All other furnaces/oven in Clark and Bard: Vacuum tube furnace, ovens, air furnaces, controlled atmosphere furnaces, etc.

Electronic & Magnetic Measurements

Quantum Design Physical Property Measurement Systems (PPMS)

Quantum Design MPMS3 SQUID Magnetometer

Lakeshore Tabletop Magnetic-Cryogenic Probe System

Cascade CPS-06 Four Point Probe

Sample Preparation, Cutting, Polishing, etc.

Sample Prep

Enerpac Hydraulic Press

Buehler Simplemet II mounting press

Inert Gas Glove Box (+ monthly storage fee)

Labstar-Pro-Glovebox-2D-Transfer-Station

Ball Mill

Spex 8000 MIXER /MILL

Cutting/Cleaning/Polishing

Glass Bead Abrasive Unit (sand blasting)-Clark

SS White Sand Blasting Unit

Struers Rotapol

Welding/Bonding

WestBond-747630E Wire Bonder

TPT HB05 Manual Wire Bonder

Test Equipment Lending Library

(more info at <https://www.ccmr.cornell.edu/facilities/instruments/instr>)

Visit the library in D21 Clark Hall to see all instruments, rates, or to consu

8000-Varian-979-Helium-Leak-Detector

8003 Pfeiffer-ASM-340-Dry Helium Leak Detector

8001-8002 - Portable RGA Pump Stations (Extorr or SRS)

8010-8013 - Portable Turbo Pump Stations (Clark & Bard)

8020-8024 - Rough Pumps (Clark Hall)

9000, 9016 - Stanford Research SR844 RF Lock-in Amplifier

9001-9009, 9017 - Signal Recovery 7265 Lock-in Amplifiers

9015 - Zurich Instruments 50MHz HF2LI Lock-in Amplifier

9014, 9018 - Signal Recovery 7270 Dual Lock-in Amplifier

9023-9025 - Signal Recovery 5113 Preamplifiers

9026-9030 - Stanford Research SR560 Low Noise Amplifiers

9040-9045 - Agilent E3630A Triple Output Power Supplies

9060-9065 - Yokogawa 7651 DC Programmable Power Sources

9070 - Agilent 33250A 80MHz Arbitrary Waveform Generator

9072-9076 - HP 3325A Function Generators

9079 - Agilent 33250A-80MHz Arbitrary Waveform Generator

9080-9084 - Agilent E8257 PSG Analog Signal Generators

9085 - HP 8657B 2GHz Signal Generator

9091-9092 - Picosecond 10070A Pulse Generators

9107-9109 - Agilent 200MHz Digital Oscilloscopes

9112 - LeCroy 8500A Wavemaster Oscilloscope

9120 - Agilent 35670A 102kHz Dynamic Signal Analyzer

9121 - Agilent E5061A 1.5GHz Network Analyzer

9122 - Hewlett Packard 8753D 6GHz Network Analyzer

9123 - Agilent 8722ES Network Analyzer

9131 - Agilent E4408B 26.5GHz Spectrum Analyzer

9133 - Agilent 8563E Spectrum Analyzer

9141-9144 - FW Bell Hall Probes

9152 - Extech IRC40 Thermal imager

9164-9167 Keithley Sourcemeters

9168-9169 Keithley Sourcemeters

9170-Andeen-Hagerling-2700A-Multi-frequency-Capacitance/Loss-Bridge

9171-Agilent-4284A-Precision-LCR-Meter

9180-9186 - National-Instruments USB-GPIB adaptors