



INTERNAL CHARGES FOR EQUIPMENT IN THE GRADUATE CENTER FOR MATERIALS RESEARCH

Phone: (573) 341-4873 Fax: (573) 341-2071

E-mail: mrc@mst.edu

***Effective September 1, 2023 thru August 31,
2024***

The Graduate Center for Materials Research (MRC) has a large variety of research equipment that is available for use by Missouri S&T faculty, staff, and students. For internal users, i.e., those users who pay via a Missouri S&T mocode, the equipment use charges are based on the costs incurred by MRC and are in accordance with University Policy and Office of Management and Budget (OMB) Circular A-21, "Cost Principles for Education Institutions". External users are charged for supplies, equipment depreciation, and operator salary via a pre-arranged Non-University Use of University Equipment, Facilities, and Resources Contract.

Missouri S&T faculty/students wanting to use this equipment should contact the persons listed below. Special scheduling arrangements can often be made to fit unique circumstances.

Equipment

PrismaE SEM
RAITH e-Line PLUS
Dualbeam FIB/SEM
Helios Hydra CX (Dualbeam FIB)
TEM
TGA/DTA/Digital Image System
X-Ray Diffraction
AFM/STM
TA Q600 Thermal Analysis
Netzsch Thermal Analysis
Horiba GD Profiler 2
Xradia Micro CT
Nanoindenter
XPS NEXSA
XRF – Oxford X-Supreme 8000
All other

Person to Contact for Scheduling

Dr. Clarissa Wisner (Ext. 4393)
Dr. Clarissa Wisner (Ext. 4393)
Dr. Jincheng Bai (Ext. 6467)
Dr. Jincheng Bai (Ext. 6467)
Dr. Ahmed Darwish (Ext. 6467)
Dr. Eric Bohannon (Ext. 4534)
Dr. Eric Bohannon (Ext. 4534)
Dr. Eric Bohannon (Ext. 4534)
Dr. Eric Bohannon (Ext. 4534)
Dr. Eric Bohannon (Ext. 4534)
James Claypool (Ext. 4358)
James Claypool (Ext. 4358)
James Claypool (Ext. 4358)
Brian Porter (Ext. 4395)
Brian Porter (Ext. 4395)
Fred Eickelmann (Ext. 4356) or
Director of MRC (Ext. 4873)

GRADUATE CENTER FOR MATERIALS RESEARCH EQUIPMENT USE CHARGES

Charges Billed to MoCode Account

I. X-Ray Diffraction Units

Philips Thin Film (MRD)

1. Internal Use Rate \$171.00/hr
2. Internal Use Rate for Unassisted User \$130.00/hr

Philips MPD Powder

1. Internal Use Rate \$60.00/hr
2. Internal Use Rate for Unassisted User \$32.00/hr

II. Thermal Analyzers

TA-DSC

1. Internal Use Rate \$9.00/hr
2. Internal Use Rate for Unassisted User \$1.00/hr

III. Scanning Tunneling/Atomic Force Microscope (AFM)

1. Internal Use Rate \$15.00/hr
2. Internal Use Rate for Unassisted User \$1.00/hr

IV. Dualbeam Focused Ion Beam/Scanning Electron Microscope (FIB/SEM)

1. Internal Use Rate \$75.00/hr
2. Internal Use Rate for Unassisted User \$60.00/hr

V. Helios Hydra CX (Dualbeam FIB)

1. Internal Use Rate \$73.00/hr
2. Internal Use Rate for Unassisted User \$43.00/hr

VI. Transmission Electron Microscope (TEM) (Tecnai F20 STEM)

1. Internal Use Rate \$120.00/hr
2. Internal Use Rate for Unassisted User \$85.00/hr

VII. RAITH e-Line PLUS E-beam Lithography

1. Internal Use Rate \$80.00/hr
2. Internal Use Rate for Unassisted User \$50.00/hr

VIII. XRF Oxford X-Supreme 8000 (Energy Dispersive X-ray Fluorescence)

1. Internal Use Rate \$44.00/hr
2. Internal Use Rate for Unassisted User \$20.00/hr

IX. TA Q600 SDT Thermal Analysis (Simultaneous DSC-TGA)

1. Internal Use Rate \$133.00/hr
2. Internal Use Rate for Unassisted User \$102.00/hr

X. PrismaE SEM	
1. Internal Use Rate	\$44.00/hr
2. Internal Use Rate for Unassisted User	\$12.00/hr
XI. XPS NEXSA	
1. Internal Use Rate	\$29.00/hr
2. Internal Use Rate for Unassisted User	\$10.00/hr
XII. Xradia Micro CT	
1. Internal Use Rate	\$214.00/hr
2. Internal Use Rate for Unassisted User	\$182.00/hr
XIII. Netzsch Thermal Analysis	
1. Internal Use Rate	\$21.00/hr
2. Internal Use Rate for Unassisted User	\$1.00/hr
XIV. Horiba GD Profiler 2	
1. Internal Use Rate	\$24.00/hr
2. Internal Use Rate for Unassisted User	\$1.00/hr
XV. Nanoindenter	
1. Internal Use Rate	\$63.00/hr
2. Internal Use Rate for Unassisted User	\$23.00/hr