

# MRF - Multidimensional Characterization Lab Equipment Rates (2026)

All rates are hourly and are applied in 1 min increments. Effective September 1st, 2025.

|                                            | Internal Rate               |                     | External Rates                 |                     |                             |                     |
|--------------------------------------------|-----------------------------|---------------------|--------------------------------|---------------------|-----------------------------|---------------------|
|                                            | UNT Sponsored Research      |                     | Non-Commercial Govt Grant Rate |                     | Commercial Instituions      |                     |
|                                            | Instrument Only<br>per hour | Service<br>per hour | Instrument Only<br>per hour    | Service<br>per hour | Instrument Only<br>per hour | Service<br>per hour |
| Staff Assistance<br>— Technical Assistance |                             | \$ 52.00            |                                | \$ 78.00            |                             | \$ 164.00           |

### BULK ANALYSIS — Microscopy & Microanalysis

|                                                                        |          |           |          |           |           |           |
|------------------------------------------------------------------------|----------|-----------|----------|-----------|-----------|-----------|
| Atom Probe Microscope — Cameca LEAP 5000XS                             | \$ 55.00 | \$ 107.00 | \$ 82.00 | \$ 160.00 | \$ 279.00 | \$ 443.00 |
| Scanning Electron Microscope / Focused Ion Beam — TS Helios 5 PFIB Cxe | \$ 57.00 | \$ 109.00 | \$ 85.00 | \$ 163.00 | \$ 327.00 | \$ 491.00 |
| Scanning Electron Microscope — TS Apreo 2 S LoVac                      | \$ 44.00 | \$ 96.00  | \$ 66.00 | \$ 144.00 | \$ 285.00 | \$ 449.00 |
| Scanning Electron Microscope — TS Quattro S Environmental SEM          | \$ 40.00 | \$ 92.00  | \$ 60.00 | \$ 138.00 | \$ 232.00 | \$ 396.00 |
| Transmission Electron Microscope — TS Talos F200X G2                   | \$ 61.00 |           | \$ 91.00 |           | \$ 327.00 |           |

### SURFACE ANALYSIS

|                                                                           |          |          |          |           |           |           |
|---------------------------------------------------------------------------|----------|----------|----------|-----------|-----------|-----------|
| Scanning X-ray Photoelectron Spectroscopy — PHI VersaProbe 5000 XPS / UPS | \$ 43.00 | \$ 95.00 | \$ 64.00 | \$ 142.00 | \$ 242.00 | \$ 406.00 |
| Spectroscopic Ellipsometer — J.A. Woollam VASE                            | \$ 27.00 | \$ 79.00 | \$ 41.00 | \$ 119.00 | \$ 164.00 | \$ 328.00 |
| Scanning Probe Microscope — Bruker Multimode Nanoscope III AFM            | \$ 29.00 | \$ 81.00 | \$ 44.00 | \$ 122.00 | \$ 164.00 | \$ 328.00 |

### SAMPLE PREPARATION

|                                          |          |          |          |           |           |           |
|------------------------------------------|----------|----------|----------|-----------|-----------|-----------|
| Optical Microscope — Nikon Eclipse ME600 | \$ 15.00 | \$ 67.00 | \$ 23.00 | \$ 101.00 | \$ 100.00 | \$ 264.00 |
|------------------------------------------|----------|----------|----------|-----------|-----------|-----------|

Included in the instrument access fees  
Gatan 682 Sputter Coating & Etching system  
South Bay PC2000 Plasma Cleaner  
General sample preparation supplies  
Data analysis software access