**Materials Metrology, Characterization and Learning (MMCL) Lab**

Mechanical Engineering and Materials Science (MEMS) Department

University of Pittsburgh, Pittsburgh Campus

February 2024

**FY24 Hourly Internal Rates for Equipment & Services**

External users: please contact Prof. Zachary D. Harris at zdh13@pitt.edu to discuss collaboration options.

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| **Phenom XL SEM**  **Electron & X-ray Techniques**  Bruker SkyScan 1272 Micro-CT (scanning only)  Rigaku MiniFlex600 XRD | $35  $30  $25 |
| **Thermo- & Mechanical Testing**  Hysitron TriboIndenter TI900  Netzsch Laser Flash Analyzer 427  Netzsch Thermomechanical Analyzer 402 F1 Hyperion | $35  $30  $30 |
| **Optical Microscopy/Profilometry**  Zeiss Smartzoom 5 Microscope  Keyence VHX-970F Microscope  Keyence VHX-7000N Microscope  Keyence VR-3200 Profilometer  Bruker Contour GT-I Profilometer | $15  $10  $10  $20  $20 |
| **Other Instruments & Services**  Staff Time (hourly) | $55 |
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