**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 427Netzsch Thermomechanical Analyzer 402 F1 Hyperion | $35$30 $30 |
| **Optical Microscopy/Profilometry** Zeiss Smartzoom 5 MicroscopeKeyence VHX-970F MicroscopeKeyence VHX-7000N MicroscopeKeyence VR-3200 ProfilometerBruker Contour GT-I Profilometer | $15 $10 $10 $20 $20 |
| **Other Instruments & Services** Staff Time (hourly)  | $55 |
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