MSE equipment use charges Dec2013

Equipment use: Most equipment usage has accompanying charges.

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| **Equipment** | **Cost** | **Unit** | **Notes** |
| *Thermal Analysis* |  |  |  |
| DTA | $30 | Per hour | One hour minimum |
| TGA | $30 | Per hour | One hour minimum |
| DMA | $30 | Per hour | One hour minimum |
| TMA | $30 | Per hour | One hour minimum |
| DSC | $30 | Per hour | One hour minimum |
| *Metallography* |  |  |  |
| Diamond saw cuts | $5 | Per cut |  |
| Mounting, Polishing and/or Etching | $5 | Per sample to mount, polish and/or etch the sample |  |
| *Mechanical Testing* |  |  |  |
| Tensile Testing | $40 | Per hour | ½ hour minimum |
| Impact Testing | $2 | Per sample |  |
| Micro-hardness Testing |  | $15 sign-in + $10/hour | One hour minimum |
| Macro-hardness Testing | $1 | Per sample |  |
| *Microscopy* |  |  |  |
| SEM Microscopy | $40 | Per hour | Technician cost is $40/hour |
| Optical Microscopy | $10 | Per hour | additional charge |
| *Furnaces* |  |  |  |
| High temperature (over 1100C) | $15 | Per run | Extra charge for very long  runs (over 10 hours is $2/hour), $200 cap per run |
| Low Temperature | $10 | Per run |
| Misc. |  |  |  |
| XRD |  | $30 sign-in + $10/hour | One hour minimum |
| FTIR & UV-vis | $10 | Per hour | One hour minimum |
| Pycnometer | $20 | Per hour | One hour minimum |
| Lab Chemicals |  | As used |  |
| Lab Supplies |  | As used |  |
| Misc. purchased equipment |  | As agreed |  |

High Temperature Furnaces: 46100, 54500, 46200, 59300 (all other designators are low temp furnaces)

For strictly outside users, all rates are double. (SC sept 2012)

Technician cost is additional $40/hour for internal (ISU) use and $80/hour for external use.