



Center for Infrastructure
Engineering Studies

**INTERNAL CHARGES FOR EQUIPMENT IN THE CENTER FOR
INFRASTRUCTURE ENGINEERING STUDIES**

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Effective 1-01-2024

The Center for Infrastructure Engineering Studies (CIES) has a large variety of research equipment that is available for use by internal (UM System affiliates) and external users. For internal users (e.g., paying with a MoCode), the equipment use charges are based on the expenses incurred by CIES 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.

To request usage of CIES equipment, please see the request form at:
<https://cies.mst.edu/formsandscheduling/>

CENTER FOR INFRASTRUCTURE ENGINEERING STUDIES EQUIPMENT INTERNAL USE CHARGES

Charges Billed to an Internal MoCode Account

Environmental Chambers

1. De-Icing Salt Scaling Environmental Chamber (qty 2)
 - a. Internal Use Rate for Unassisted User
Rate per *specimen* \$12.38/spec.
2. Humboldt Elite Series Freeze Thaw Chambers (qty 2)
 - a. Internal Use Rate for Unassisted User
Rate per *specimen* \$58.01/spec.

Material Characterization

3. Mercury Intrusion Porosimeter
 - a. Internal Use Rate \$35.52/hr
 - b. Internal Use Rate for Unassisted User \$14.63/hr
4. ULTRAPYC 1200E Pycnometer – Gas
 - a. Internal Use Rate \$29.33/hr
 - b. Internal Use Rate for Unassisted User \$8.45/hr
***Min. ½ hr charge**
5. CALMETRIX Calorimeter I-CAL 8000
 - a. Internal Use Rate for Unassisted User \$9.28/spec.
Rate per *specimen*

Mixing Equipment

6. Eirich-R09T High Intensity Mixer
 - a. Internal Use Rate with Operator \$35.11/hr
7. Hobart Mortar Mixer 20 Qt
 - a. Internal Use Rate \$27.07/hr
 - b. Internal Use Rate for Unassisted User \$6.19/hr
***Min. 1 hr charge**

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Center for Infrastructure Engineering Studies

- 8. Large Batch Plant
 - a. Internal Use Rate with Operator \$59.75/hr
- 9. Small Batch Plant
 - a. Internal Use Rate with Operator \$59.75/hr

Rheometers/Workability

- 10. Anton Par MCR 302 Rheometer
 - a. Internal Use Rate \$35.52/hr
 - b. Internal Use Rate for Unassisted User \$14.63/hr
- 11. ConTec Viscometer 5
 - a. Internal Use Rate \$51.82/hr
 - b. Internal Use Rate for Unassisted User \$30.94/hr
- 12. ConTec Viscometer 6
 - a. Internal Use Rate \$51.82/hr
 - b. Internal Use Rate for Unassisted User \$30.94/hr
- 13. ICAR Rheometer
 - a. Internal Use Rate for Unassisted User \$9.28/hr

Testing Frames

- 14. MTS – Rock and Concrete Test System
 - a. Internal Use Rate \$45.64/hr
 - b. Internal Use Rate for Unassisted User \$24.75/hr

Other

- 15. GENEQ Automatic Concrete Cylinder End Grinder
 - a. Internal Use Rate \$49.06/hr
 - b. Internal Use Rate for Unassisted User \$36.68/hr

CENTER FOR INFRASTRUCTURE ENGINEERING STUDIES EQUIPMENT EXTERNAL USE CHARGES

*Charges Billed via pre-arranged Non-University Use of University Equipment, Facilities,
and Resources Contract*

NOTICE: There may be additional charges for materials, supplies, and indirect costs
depending on samples evaluation at time of service

Environmental Chambers

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|--|----------------|
| 1. De-Icing Salt Scaling Environmental Chamber (qty 2) | \$108.85/spec. |
| 2. Humboldt Elite Series Freeze Thaw Chambers (qty 2) | \$251.54/spec. |

Material Characterization

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|-------------------------------------|---------------|
| 3. Mercury Intrusion Porosimeter | \$83.93/hr |
| 4. ULTRAPYC 1200E Pycnometer – Gas | \$78.92/hr |
| 5. CALMETRIX Calorimeter I-CAL 8000 | \$31.13/spec. |

Mixing Equipment

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|-------------------------------------|-------------|
| 6. Eirich-R09T High Intensity Mixer | \$115.25/hr |
| 7. Hobart Mixer 20 Qt | \$75.42/hr |
| 8. Large Batch Plant | \$229.31/hr |
| 9. Small Batch Plant | \$180.24/hr |

Rheometers/Workability

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|---------------------------------|-------------|
| 10. Anton Par MCR 302 Rheometer | \$100.47/hr |
| 11. ConTec Viscometer 5 | \$101.15/hr |
| 12. ConTec Viscometer 6 | \$106.89/hr |
| 13. ICAR Rheometer | \$78.04/hr |

Testing Frames

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|---|-------------|
| 14. MTS – Rock and Concrete Test System | \$158.94/hr |
|---|-------------|

Other

- | | |
|---|------------|
| 15. GENEQ Automatic Concrete Cylinder End Grinder | \$79.74/hr |
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