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
### Large Batch Plant

- **a. Internal Use Rate with Operator** $59.75/hr

### 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
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
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
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
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
14. MTS – Rock and Concrete Test System $158.94/hr

Other
15. GENEQ Automatic Concrete Cylinder End Grinder $79.74/hr