INTERNAL CHARGES FOR EQUIPMENT IN THE CENTER FOR INFRASTRUCTURE ENGINEERING STUDIES
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Effective 10-01-2021

The Center for Infrastructure Engineering Studies (CIES) has a large variety of research equipment that is available for use by Missouri S&T faculty, staff, and students. For internal users, i.e., those users who pay via a Missouri S&T moode, the equipment use charges are based on the costs 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.

Missouri S&T faculty/students wanting to use this equipment should contact the persons listed below.

For scheduling please visit 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 $31.41/hr
   b. Internal Use Rate for Unassisted User $14.63/hr

4. ULTRAPYC 1200E Pycnometer – Gas
   a. Internal Use Rate $25.22/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. Drum Mixer 100 L
   a. Internal Use Rate $22.96/hr
   b. Internal Use Rate for Unassisted User $6.19/hr
7. Drum Mixer 150 L
   a. Internal Use Rate $22.96/hr
   b. Internal Use Rate for Unassisted User $6.19/hr

8. Eirich-R09T High Intensity Mixer
   a. Internal Use Rate with Operator $29.78/hr

9. Hobart Mortar Mixer 20 Qt
   a. Internal Use Rate $22.96/hr
   b. Internal Use Rate for Unassisted User $6.19/hr

   *Min. 1 hr charge

10. Large Batch Plant
    a. Internal Use Rate with Operator $53.84/hr

11. Small Batch Plant
    a. Internal Use Rate with Operator $53.84/hr

**Rheometers/Workability**

12. Anton Par MCR 302 Rheometer
    a. Internal Use Rate $31.41/hr
    b. Internal Use Rate for Unassisted User $14.63/hr

13. ConTec Viscometer 5
    a. Internal Use Rate $47.72/hr
    b. Internal Use Rate for Unassisted User $30.94/hr

14. ConTec Viscometer 6
    a. Internal Use Rate $47.72/hr
    b. Internal Use Rate for Unassisted User $30.94/hr

15. ICAR Rheometer
    a. Internal Use Rate for Unassisted User $9.28/hr
### Testing Frames

16. MTS – Rock and Concrete Test System  
   a. Internal Use Rate  $41.53/hr  
   b. Internal Use Rate for Unassisted User  $24.75/hr

### Other

17. GENEQ Automatic Concrete Cylinder End Grinder  
   a. Internal Use Rate  $46.63/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) $96.12/spec.
2. Humboldt Elite Series Freeze Thaw Chambers (qty 2) $211.75/spec.

Material Characterization
3. Mercury Intrusion Porosimeter $71.20/hr
4. ULTRAPYC 1200E Pycnometer – Gas $58.63/hr
5. CALMETRIX Calorimeter I-CAL 8000 $24.85/spec.

Mixing Equipment
6. Drum Mixer 100 L $63.03/hr
7. Drum Mixer 150 L $63.03/hr
8. Eirich-R09T High Intensity Mixer $80.17/hr
9. Hobart Mixer 20 Qt $61.82/hr
10. Large Batch Plant $139.98/hr
11. Small Batch Plant $123.64/hr

Rheometers/Workability
12. Anton Par MCR 302 Rheometer $71.41/hr
13. ConTec Viscometer 5 $88.41/hr
14. ConTec Viscometer 6 $94.15/hr
15. ICAR Rheometer $65.31/hr

Testing Frames
16. MTS – Rock and Concrete Test System $146.21/hr

Other
17. GENEQ Automatic Concrete Cylinder End Grinder $67.01/hr