



BILLING RATES - FY 21/22

DEPARTMENT NAME :

Civil Engineering

VICE-PRESIDENT AREA :

College of Engineering, Computing, and Applied Sciences

DESCRIPTION OF COMMODITY OR SERVICE :	UNIT OF BILLING	FY 21/22 RATE	CUSTOMERS BEING SERVED
Room 21 Lowry (soil mechanics lab)			
Use of Soil Mechanics Lab (room 21 Lowry)	Hour	\$100.00	External
Atterberg plastic limit test (ASTM D4318)	per each test	\$100.00	External
Atterberg liquid limit test (ASTM D4318)	per each test	\$100.00	External
Sieve analysis with wash #200 sieve (ASTM D422)	per each test	\$100.00	External
Hydrometer gradation analysis (ASTM D422)	per each test	\$120.00	External
Moisture content (ASTM D2216)	per each test	\$20.00	External
Standard Proctor density test up to 5 moisture contents (ASTM D698)	per each test	\$500.00	External
Each additional moisture content	per each test	\$100.00	External
Consolidation test up to 8 load increments (ASTM D2435)	per each test	\$650.00	External
Each additional load increment	per each test	\$100.00	External
Direct shear test up to 3 normal loads (ASTM D3080)	per each test	\$650.00	External
Each additional load	per each test	\$100.00	External



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Triaxial test (each test includes 3 specimens and 3 Mohr's circles)			External
Consolidated undrained (CU) triaxial test with pp measurements on Shelby tube samples (ASTM D4767)	per each test	\$1,000.00	External
Remold and test	per each test	\$1,150.00	External
Unconsolidated undrained (UU) triaxial test on Shelby tube samples (ASTM D2850)	per each test	\$700.00	External
Remold and test	per each test	\$800.00	External
Unconfined compression triaxial test (ASTM D2166)	per each test	\$150.00	External
Rooms 23/29 Lowry (Concrete Materials Lab)			
Use of Concrete Materials Labs (23/29)	Hour	\$80.00	External
Compressive Strength (ASTM C 39) a set of 3 cylinders	per each test	\$75.00	External
Flexural Strength (6' x 6" x 20" beams) for a set of two beams (ASTM C 348)	per each test	\$100.00	External
Rapid Chloride Ion Permeability (ASTM C 1202), for a set of two specimens	per each test	\$550.00	External
Accelerated Mortar Bar Test (ASTM C 1260 Test) for 3 mortar bars	per each test	\$500.00	External
Concrete Prism Test (ASTM C 1293 Test) for 3 prisms	per each test	\$750.00	External



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Freeze-Thaw Durability (ASTM C 666 Test) for 2 prisms	per each test	\$550.00	External
LA Abrasion Test for Aggregates (ASTM C 131)	per each test	\$200.00	External
Strength activity index with portland cement	per each test	\$125.00	External
Research Labs (off-campus):			
ARTS			
Use of Training/Seminar Room	Day	\$125.00	External
Use of Training/Seminar Room	Half Day	\$70.00	External
centrifuge with 4 place rotor	Hour	\$25.00	External
Troxler Gyrotory Compactor	Hour	\$30.00	External
Troxler Ignition Oven	Hour	\$30.00	External
Brookfield Rotational Viscometer	Hour	\$20.00	External
Cox Rolling Thin Film Oven	Hour	\$30.00	External
Bohlin Dynamic Shear Rheometer	Hour	\$30.00	External



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PTI Vibratory Compactor	Hour	\$30.00	External
PTI Asphalt Pavement Analyzer	Hour	\$80.00	External
Cannon Bending Beam Rheometer	Hour	\$30.00	External
Interlaken Direct Tension Tester	Hour	\$30.00	External
Troxler Nuclear Asphalt Density Gauge	Hour	\$50.00	External
Prentex Pressure Aging Vessel	Hour	\$30.00	External
Oros Sound Vibration Analyzer	Hour	\$50.00	External
Grieve Large Floor Oven	Hour	\$20.00	External
Use of Environmental Chamber	Hour	\$50.00	External
Use of AMPT	Hour	\$100.00	External
Use of Silverson Hi Shear Blender	Hour	\$20.00	External
Use of Mary Ann Sifter	Hour	\$30.00	External
Use of RoTap Shaker	Hour	\$30.00	External
Use of LA Abrasion Machine	Hour	\$50.00	External



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Use of Masonry Saw	Hour	\$30.00	External
Use of Core Drill	Hour	\$30.00	External
Use of 10 kip UTM	Hour	\$80.00	External
Use of Waters HPLC	Hour	\$100.00	External
WiSER			
Wind Tunnel time (fans running)	Day	\$1,000.00	External
BEL - Built Environment Lab			
Miniature uniaxial accelerometer w/BNC adapter plug	Day	\$7.50	External
ICP impedance head for shaker modal testing	Day	\$12.75	External
Dual purpose +/-40 lbf, 6500 Hz shaker	Day	\$140.00	External
Shaker Expansion head for base excitation	Day	\$19.00	External
Shaker Controller and Analyzer	Day	\$254.00	External
Test Support Personnel	Day	\$1,000.00	External
Flat Bed Trailer Use	Day	\$50.00	External



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Use of MTS servo hydraulic rams	Day	\$600.00	External
Use of Tinius Olsen 10 kip UTM	Day	\$500.00	External
Large test frame plus actuator	Day	\$600.00	External
Use of High Speed Camera	Hour	\$150.00	External
Use of Air Cannon	Hour	\$50.00	External
Use of wall racking fixture	Day	\$600.00	External
Use of Floor Space	SF/Day	\$1.00	External
Use of Portable Hydraulic Load System	DaY	\$500.00	External
Use of vibrating wire gauge data acquisition system	Day	\$75.00	External
Use of 20 channel data acquisition system	Day	\$500.00	External
Piezoelectric Accelerometer	Day	\$25.00	External
Piezoelectric Miniature Dynamic Strain Gauge	Day	\$25.00	External
Instrumented Hammer (Small)	Day	\$20.00	External
Instrumented Hammer (Large)	Day	\$30.00	External



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6 channel Data Acquisition System	Day	\$150.00	External
Shaker (17N) with Controller	Day	\$100.00	External
Laptop with Data Acquisition Software	Day	\$50.00	External
Use of Strong Floor	Day	\$600.00	External
Use of Forklift	Hour	\$30.00	External
Transportation			
Transportation Surveillance Van Mobilization	Day/mile**	\$85/.55**	External
** includes 150 mi/day Minimum 150 miles			
Transpo Van static data collection	Hour	\$100.00	External
Transpo Van dynamic data collection	Mile	\$10.00	External
Corrosion Lab (Room 17)			
Rapid Chloride Ion Permeability (ASTM C 1202), for a set of three specimens	per each test	\$800.00	External



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Linear Polarization Resistance Test	per each test	\$100.00	External
Cyclic Polarization Tests	per each test	\$400.00	External
Elechemical Impedance Spectroscopy	per each test	\$400.00	External
Electrical Impedance Spectroscopy	per each test	\$100.00	External
Cyclic Voltammetry Test	per each test	\$400.00	External
Other Electorchemical Tests	per each test	\$300.00	External
Half-Cell Potential	Hour	\$100.00	External
Pontentiostat	Hour	\$600.00	External
Automatic Corrosion and Elelctrocial Impedance Monitoring Systme	Hour	\$300.00	External
Advanced DC/AC power source	Hour	\$100.00	External
Scanning Electrochemical Microscope	Hour	\$1,000.00	External
General			
Faculty Time	Hour	\$250.00	External
Technician Time	Hour	\$100.00	External



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Undergraduate Student Time	Hour	\$15.00	External
Graduate Student Time	Hour	\$30.00	External
Test Specimen Disposal Fee	Ton	\$200.00	External