



**BILLING RATES - FY 22/23**

**DEPARTMENT NAME :**  
**Clemson Composites Center**

**VICE-PRESIDENT AREA :**  
**College of Engineering, Computing and Applied Science**

<b>DESCRIPTION OF COMMODITY OR SERVICE :</b>	<b>UNIT OF BILLING</b>	<b>FY 22/23 RATE</b>	<b>CUSTOMERS BEING SERVED</b>
HP-RTM & MX Press (High-Pressure Resin Transfer Molding)	per test	\$2,100.00	Internal
HP-RTM & MX Press (High-Pressure Resin Transfer Molding)	per test	\$3,200.00	External
Extrusion-Internal	per test	\$675.00	Internal
Extrusion-External	per test	\$1,030.00	External
Injection Molding (30 ton)-Internal	per test	\$655.00	Internal
Injection Molding (30 ton)-External	per test	\$1,000.00	External
Mechanical Testing-Internal	\$/hour	\$50.00	Internal
Mechanical Testing-External	\$/hour	\$75.00	External
Differential Scanning Calorimetry-Internal	\$/unit	\$55.00	Internal
Differential Scanning Calorimetry-External	\$/unit	\$75.00	External
Rheometer-Internal	\$/unit	\$53.00	Internal
Rheometer-External	\$/unit	\$75.00	External



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Rotary Batch Testing	\$/day	\$3,900.00	Internal
Rotary Batch Testing	\$/day	\$3,900.00	External
Rotary Batch Set-up and tear down	\$/set-up	\$2,000.00	Internal
Rotary Batch Set-up and tear down	\$/set-up	\$2,000.00	External
Personnel Labor Cost	\$/hour	\$65.00	Internal
Personnel Labor Cost	\$/hour	\$100.00	External
Graduate Student (without GAD)	\$/hour	\$31.00	Internal
Graduate Student (without GAD)	\$/hour	\$37.00	External
Graduate Student (with GAD)	\$/hour	\$48.00	Internal



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Graduate Student (with GAD)	\$/hour	\$57.00	External
Wet Chemical Lab Fee	\$/day	\$131.29	Internal
Wet Chemical Lab Fee	\$/day	\$200.00	External
Cutting Table	\$/day	\$1,585.59	Internal
Cutting Table	\$/day	\$2,000.00	External
Filament Maker	\$/day	\$195.60	Internal
Filament Maker	\$/day	\$300.00	External
Plastic Shredder	\$/day	\$106.24	Internal
Plastic Shredder	\$/day	\$150.00	External
Pellet Dryer	\$/day	\$63.84	Internal
Pellet Dryer	\$/day	\$100.00	External
Vacuum Downdraft Table	\$/day	\$230.00	Internal
Vacuum Downdraft Table	\$/day	\$300.00	External



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<b>New Procured Equipment</b>			
Mechanical Testing (10 kN) - Internal	per test	\$46.00	Internal
Mechanical Testing (10 kN) -External	per test	\$100.00	External
Drop Tower	per test	\$340.00	Internal
Drop Tower	per test	\$550.00	External
Pendulum Impact	per test	\$50.00	Internal
Pendulum Impact	per test	\$100.00	External
DSC 250	per test	\$67.00	Internal
DSC 250	per test	\$150.00	External
TMA 450	per test	\$55.00	Internal
TMA 450	per test	\$85.00	External
DMA 850	per test	\$55.00	Internal
DMA 850	per test	\$200.00	External
DLF 1200	per test	\$130.00	Internal



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DLF 1200	per test	\$250.00	External
TGA 5500	per test	\$70.00	Internal
TGA 5500	per test	\$150.00	External
Melt Flow Indexer	per test	\$25.00	Internal
Melt Flow Indexer	per test	\$50.00	External
Accelerated Ageing Equipment (QUV)	per test	\$75.00	Internal
Accelerated Ageing Equipment (QUV)	per test	\$150.00	External
Accelerated Ageing Equipment (QSUN)	per test	\$85.00	Internal
Accelerated Ageing Equipment (QSUN)	per test	\$200.00	External
3D DIC - Static	per test	\$100.00	Internal
3D DIC - Static	per test	\$180.00	External
3D DIC - Dynamic	per test	\$200.00	Internal
3D DIC - Dynamic	per test	\$350.00	External
Parr Reactor	per test	\$330.00	Internal
Parr Reactor	per test	\$550.00	External



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Homogenizer	per test	\$60.00	Internal
Homogenizer	per test	\$100.00	External
Rotary ball-milling machine	per test	\$55.00	Internal
Rotary ball-milling machine	per test	\$85.00	External
Freeze dryer	per test	\$210.00	Internal
Freeze dryer	per test	\$320.00	External
<b>Future Equipment</b>			
Vacuum Downdraft Table	per test	\$115.00	Internal
Vacuum Downdraft Table	per test	\$175.00	External
IR Oven	per test	\$326.00	Internal
IR Oven	per test	\$500.00	External
250 Ton Wabash Press	per test	\$675.00	Internal
250 Ton Wabash Press	per test	\$1,030.00	External