

**Standard Charges for Particle Research Facility (PRF) Services**

Services	Hourly / Sample	Internal Rate (UWO)	Extrenal Rate
<b><u>Imaging Microscopy and Surface Analysis</u></b>			
<i>Hitachi Variable Pressure SEM / BSE / EDX</i>	Hourly	\$55.00	\$95.00
<i>Optical Microscopy with Hot Stage</i>	Hourly	\$40.00	\$80.00
<i>Dektak 8 Surface Profiling and 3D Mapping</i>	Hourly	\$55.00	\$95.00
<i>Rhopoint Surface Gloss Meter</i>	Per Sample	\$5.00	\$10.00
<b><u>Particle Characterization Services</u></b>			
<i>X-ray diffraction (XRD) Analysis</i>	Per Sample	\$33.00	\$65.00
<i>Particle Size Analysis (TSI)</i>	Per Sample	\$15.00	\$60.00
<i>Particle Size Analysis (Malvern)</i>	Per Sample	\$20.00	\$75.00
<i>Aerodynamic Particle Size Measurement</i>	Per Sample	\$15.00	\$60.00
<i>Molecular Weight Measurement</i>	Per Sample	\$20.00	\$75.00
<i>Zeta Potential Measurement</i>	Per Sample	\$20.00	\$75.00
<i>Sieve Analysis</i>	Hourly	\$40.00	\$80.00
<i>Bulk Powder Characteristic Measurement</i>	Hourly	\$40.00	\$80.00
<i>Particle porosity and Surface Area Measurements (BET)</i>	Per Sample	\$100.00	\$200.00
<b><u>Chemical and Biochemical Analysis</u></b>			
<i>High Performance Liquid Chromatography</i>	Per Sample	\$20.00	\$40.00
<i>Gas Chromatography</i>	Per Sample	\$30.00	\$80.00
<i>Mass Spectrometry</i>	Per Sample	\$30.00	\$80.00
<b><u>Thermal Analysis</u></b>			
<i>Thermogravimetric Analysis (TGA)</i>	Per Sample	\$20.00	\$75.00
<i>Differential Scanning Calorimeter (DSC)</i>	Per Sample	\$20.00	\$75.00
<b><u>Spectroscopy and other Analyses</u></b>			
<i>Fourier Transform Infra-red Spectroscopy (FTIR)</i>	Hourly	\$40.00	\$80.00
<i>UV-Visible Spectrophotometry</i>	Per Sample	\$16.00	\$35.00
<b><u>Particle Processing Services</u></b>			
<i>Mixing/Compounding**</i>	Hourly	\$45.00	\$95.00
<i>Size Reduction with an Air Classifying Mill (ACM)**</i>	Hourly	\$60.00	\$125.00
<i>Size Reduction Using a Jet-Mill **</i>	Hourly	\$45.00	\$95.00
<i>Sieving/Classifying **</i>	Hourly	\$45.00	\$95.00
<i>De-Agglomerating</i>	Hourly	\$45.00	\$95.00
<i>Extruding**</i>	Hourly	\$60.00	\$125.00
<i>Particle Foramation**</i>	Hourly	\$40.00	\$85.00
<i>Spray Drying</i>	Hourly	\$40.00	\$85.00
<i>Freeze Drying</i>	Per Sample	\$30.00	\$60.00

\*\* For these services the charges may vary from the listed value depending on the material and process requirements