



Walter Curlook Materials Characterization & Processing Laboratory User Fees

(Fee structure effective from Jan 01, 2019)

XRD Rigaku MiniFlex 600 (Service request and Authorized Users)	Authorized Users ¹ (per hour)
MSE U of T	\$20
Other Departments/Universities	\$25
Industry	---

Contact: Dr. Cobas Acosta| Email: raiden.acosta@utoronto.ca

- (1) X-ray diffraction training is required to become Authorized User.
- (2) Raw data only.
- (3) A sample preparation fee will applied if sample grinding is required.
- (4) Raw data and Analysis.

Service request (per sample) ³		
X-ray data ²	X-ray data & Qual. Analysis Phase Identification ⁴	X-ray data & Quant. Analysis Rietveld ⁴
\$40	\$80	\$120
\$50	\$90	\$140
\$60	\$100	\$160

Laser PSA Horiba LA 950 (Service request only)
MSE U of T
Other Departments/Universities
Industry

Contact: Dr. Cobas Acosta| Email: raiden.acosta@utoronto.ca

- (5) Measurement data only. The samples are analyzed using de-ionized (DI) water as the dispersing liquid.
- (6) Measurement data and Analysis.
- (7) A fluid fee will applied if Ethanol or Isopropanol fluid is required.

Service request (per sample)		
PSA - data ⁵	PSA - data & Analysis ⁶	Ethanol or Isopropanol ⁷
\$30	\$50	\$10
\$40	\$60	\$10
\$60	\$80	\$10

STA Netzsch STA449F3 (Service request only)
MSE U of T
Other Departments/Universities
Industry

Contact: Dr. Cobas Acosta| Email: raiden.acosta@utoronto.ca

- (8) Measurement data only.
- (9) If analysis is requested a fee per sample will applied.
- (10) One crucible per sample.

Service request			
Measurement (per hour)		Analysis (per sample)	
TGA/DTG Raw data ⁸	TGA/DSC Raw data ⁸	Analysis ⁹	Crucible ¹⁰
\$40	\$80	+\$40	\$15
\$60	\$90	+\$60	\$15
\$80	\$100	+\$80	\$15

ICP-OES Thermofisher iCAP 6300 (Service request and authorized users)	Authorized users ¹¹ (per hours)	
	ICP-OES	Liquid Argon
MSE U of T	\$50	\$10
Other Departments/Universities	\$60	\$10
Industry	----	----

Service Request (per standards & samples)	
Non HF - sample ¹²	HF - sample ¹³
\$20	\$30
\$30	\$40
\$40	\$60

Contact: Dr. Cobas Acosta| Email: raiden.acosta@utoronto.ca

(11) ICP-OES training is required to become Authorized User (AU).

(12) Samples and standards could be prepared and diluted at Walter Curlook Lab. (See sample preparation table).

(13) Samples and standards must be provided by the user.

Sample Preparation (authorized users)	Authorized users (per hours)				
	Mixer Mill MM 400	Microlab 600 Dilution System	Microwave Digestion	Low Speed Saw	Fusion
MSE U of T	\$30	\$30	\$30	\$30	\$30
Other Departments/Universities	\$40	\$40	\$40	\$40	\$40

Sample Preparation (Service request)	Service Request (per samples)				
	Grinding	Microlab 600 Dilution System	Microwave Digestion	Low Speed Saw	Fusion
MSE U of T	\$20	\$30	\$40	\$30	\$40
Other Departments/Universities	\$30	\$40	\$60	\$40	\$60
Industry	\$40	\$50	\$80	\$50	\$80

Contact: Dr. Cobas Acosta| Email: raiden.acosta@utoronto.ca

Acronyms

XRD: X-ray Diffraction

PSA: Particle Size Analyzer

STA: Simultaneous Thermal Analyzer

ICP - OES: Inductively Coupled Plasma - Optical Emission Spectrometer