

DEPARTMENT OF CHEMICAL & PETROLEUM ENGINEERING

Research Instrumentation & Technical Support (RITS)

Instrument Fee Schedule, October 2024

To access these instruments and lab services, please contact:

RITS Laboratory Technician: cpe.rits@ucalgary.ca

Website: <https://schulich.ucalgary.ca/chemical-petroleum/research/research-facilities/rits>

| Category | Technique | Instrument Model: | Hourly Rate (\$/hr) ¹ | | |
|--|--|-------------------------------|----------------------------------|-----------------------|-----------------------|
| | | | UofC | Academic ² | Industry ² |
| Service | Technician Labor | | 50 | 50 | 75 |
| Electron Microscopy | Scanning Electron Microscopy (SEM) | Phenom XPro | 50 | 50 | 75 |
| Chemical Analysis | Inductively Coupled Plasma Optical Emission Spectroscopy (ICP-OES) | Thermo Scientific iCAP 7200 | 20 | 20 | 30 |
| | High Performance Liquid Chromatography (HPLC) | Agilent 1260 Infinity | 20 | 20 | 30 |
| | UV-Vis Spectrometry | Shimadzu UV-Vis 2600 | 15 | 15 | 22 |
| Thermal & Physical Analysis | Thermogravimetric Analysis (TGA) | Mettler Toledo TGA/DSC 3+ | 30 | 30 | 45 |
| | BET Surface Area | Micromeritics TriStar II 3020 | 20 | 20 | 30 |
| | He Pycnometer | Micromeritics AccuPyc II 1340 | 10 | 10 | 15 |
| Particle Analysis | Laser Diffraction Particle Size Analyzer (PSA) | Malvern Mastersizer 3000 | 20 | 20 | 30 |
| | Dynamic Light Scattering (DLS) | Malvern Zetasizer Nano ZS | 20 | 20 | 30 |
| | Particle Tracking Analysis | NanoSight NS300 | 10 | 10 | 15 |
| Sample Preparation | High Capacity Centrifuge | Beckman Coulter J26S-XP | 10 | 10 | 15 |

Notes:

1. Minimum charge 30 minutes
2. An additional 45% overhead is applicable to all external academic and industry users
3. Some basic consumables will be supplied
4. Specialist consumables (e.g. new ICP standards) may be charged or supplied by user
5. Users are responsible for disposal of waste chemicals and samples after analysis is complete