

## John de Laeter Centre Services and Price List (2018)

| <b>Facility/Service</b>  | <b>WA Partner*:<br/>Researcher<br/>Cost</b> | <b>WA Partner*:<br/>Full Cost</b> | <b>Collaborative<br/>Full Cost</b> |
|--|---|-----------------------------------|------------------------------------|
| <b>Sensitive High Resolution Ion MicroProbe (SHRIMP)</b>               |   |                                   |                                    |
| SHRIMP Usage (10 hour day; 2 U-Pb ages per day)                        | \$600                                       | \$1,800                           | \$2,050                            |
| SHRIMP Night Runner (per shift)  | \$650                                       | \$650                             | \$780                              |
| Weekend/Public Holiday (experienced users only; per day)               | \$333                                       | \$1,000                           | \$1,200                            |
| Setup costs (per day)  | \$43  | \$130                             | \$155                              |
| Gold coating (per sample)  | \$7   | \$20                              | \$25                               |
| Mount preparation (per sample by prior arrangement)                    | N/A   | N/A                               | \$200                              |
| <b>Laser Ablation Mass Spectrometry</b>                                |   |                                   |                                    |
| LA-SC-ICPMS (QMS - per day)  | \$492                                       | \$1,475                           | \$3,142                            |
| LA-MC-ICPMS (multicollector - per day)                                 | \$630                                       | \$1,890                           | \$4,026                            |
| LA-SS-ICPMS (split stream- per day)                                    | \$853                                       | \$2,560                           | \$5,453                            |
| Technical Support (set-up of instruments; per hour)                    | \$52  | \$155                             | \$190                              |
| Data Processing+reporting (per hour)                                   | \$120                                       | \$120                             | \$255                              |
| Sample selection (grain selection for preparation for mounts;per hour) | \$100                                       | \$100                             | \$213                              |
| <b>Uranium-Helium Geo/Thermochronology</b>                             |   |                                   |                                    |
| Apatite conventional U-He (per sample)                                 | \$183                                       | \$550                             | \$750                              |
| Zircon conventional U-He (per sample)                                  | \$367                                       | \$1,100                           | \$1,250                            |
| Additional technical labor charges (per hour)                          | \$43  | \$130                             | \$170                              |
| <b>Sample Preparation</b>  |   |                                   |                                    |
| Crushing & Selfrag: Up to 1 kg (per sample)                            | \$42  | \$125                             | \$185                              |
| \$ per every extra kg  | \$10  | \$30                              | \$40                               |
| Panning, sieving, elutriation (per sample)                             | \$7   | \$20                              | \$50                               |
| Magnetic separation (per sample)                                       | \$13  | \$40                              | \$60                               |

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| Heavy liquids (per sample)   | \$17    | \$50    | \$75    |
| Hand picking (per hour)  | \$50    | \$50    | \$58    |
| SHRIMP mount preparation (per mount)                                   | \$43    | \$130   | \$170   |
| <b>Ar-Ar Geochronology</b>   |         |         |         |
| 40Ar/39Ar Analysis (per sample)  | \$320   | \$950   | \$990   |
| 40Ar/39Ar Analysis - Founders rate (per sample)                        | N/A     | \$475   | \$495   |
| Sample preparation fee (per hour)                                      | \$30    | \$90    | \$115   |
| <b>Radiogenic Isotope Analysis</b>                                     |         |         |         |
| Re-Os model age of molybdenite (per sample)                            | \$500   | \$1,500 | \$2,000 |
| Re-Os geochronology via isochron (per analysis): 5-7 analyses required | \$200   | \$600   | \$700   |
| Sm-Nd isotope analysis (per sample)                                    | \$130   | \$390   | \$450   |
| Pb isotope analysis - whole rock (per sample)                          | \$100   | \$300   | \$350   |
| Pb isotope analysis - galena   | \$70    | \$210   | \$245   |
| Data interpretation and reporting (per hour)                           | \$50    | \$150   | \$195   |
| <b>Experimental HP/HT Geochemistry</b>                                 |         |         |         |
| HP-HT Experimental Facility Usage (per day)                            | \$217   | \$650   | \$850   |
| Consumables (e.g. Pt capsules, acids, etc.)                            | At cost | At cost | At cost |
| Other Labour (per hour)  | \$33    | \$100   | \$130   |
| <b>Atom Probe Analysis</b>   |         |         |         |
| CAMECA LEAP Atom Probe (per day)                                       | \$900   | \$2,700 | \$3,200 |
| Additional labour (per hour)   | \$60    | \$180   | \$195   |
| <b>Microscopy and Microanalysis</b>                                    |         |         |         |
| Registration Fee - Assisted User                                       | \$70    | \$70    | \$84    |
| Registration Fee plus Basic Training                                   | \$270   | \$270   | \$324   |
| <b>Subscriptions</b>   |         |         |         |

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| Only major instruments below are covered by subscriptions. Labour, sample preparation equipment, and consumables are not included. |         |          |          |
| Individual UG student (per 12 month period)  | \$220   | \$660    | \$660    |
| HDR student - MSc or PhD (per 12 month period)   | \$1,000 | \$3,000  | \$3,000  |
| Individual researcher (per 12 month period)  | \$2,750 | \$8,250  | \$8,250  |
| Research group (100 hours usage cap, valid for 12 months)  | \$3,300 | \$10,000 | \$10,000 |
| <b>Electron Microscopy</b>   |         |          |          |
| Light Microscopes (per hour)   | \$5     | \$15     | \$18     |
| SEM - Zeiss Evo (per hour)   | \$30    | \$90     | \$108    |
| FESEM - Zeiss Neon & Tescan Mira (per hour)  | \$37    | \$110    | \$132    |
| TEM - FEI Talos (per hour)   | \$37    | \$110    | \$132    |
| Lyra FIBSEM ToF-SIMS (per hour)  | \$50    | \$150    | \$175    |
| Technical labour - operation/training (per hour)   | \$55    | \$165    | \$198    |
| Data Interpretation / reporting (per hour) - not subsidised  | \$210   | \$210    | \$252    |
| EBSD Polishing   | \$15    | \$45     | \$54     |
| Evaporative carbon coating (per coat)  | \$8     | \$24     | \$29     |
| Platinum sputter coating (per coat)  | \$10    | \$30     | \$36     |
| Consumables (e.g. stubs, boxes, grids)   | At cost | At cost  | At cost  |
| <b>Automated Mineralogy</b>  |         |          |          |
| TIMA - Automated Mineral Liberation Analysis (per hour)  | \$30    | \$90     | \$108    |
| Technical labour - operation/training (per hour)   | \$55    | \$165    | \$198    |
| Data Interpretation / reporting (per hour) -not subsidised   | \$210   | \$210    | \$252    |
| Mount preparation (per mount, by user)   | \$28    | \$84     | \$101    |
| Mount preparation (per mount, by staff)  | \$30    | \$90     | \$108    |
| <b>X-ray Photoelectron Spectroscopy</b>  |         |          |          |
| Kratos AXIS Ultra DLD XPS system (per hour)  | \$47    | \$140    | \$160    |
| Additional labour  | \$33    | \$100    | \$130    |

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| <b>X-ray Diffraction and Scattering</b>  |       |       |       |
| XRD (per sample for maximum of 90 Minutes)   | \$15  | \$45  | \$50  |
| SAXS (per hour)  | \$37  | \$110 | \$132 |
| In-situ XRD (per day)  | \$100 | \$300 | \$450 |
| Technical labour - operation/training (per hour)-not subsidised  | \$55  | \$165 | \$198 |
| Data Interpretation / reporting (per hour)   | \$210 | \$210 | \$252 |
| XRD sample preparation (per sample, by user)   | \$4   | \$12  | \$14  |
| XRD sample preparation (per sample, by staff)  | \$30  | \$90  | \$108 |
| <p><b>*WA Partner institutions:</b> Curtin University, University of Western Australia, Edith Cowan University, Murdoch University, University of Notre Dame Australia and the Commonwealth Scientific and Industrial Research Organisation. <i>Prices effective 1 Feb 2018.</i></p> |       |       |       |