## Hourly Use Rates for the Material Research Laboratory Facilities

Rates for Private Sector companies and researchers.

If you have any questions, please contact the MRL Business Office at 217-333-1372. Rates valid from January 1, 2024 and are subject to change by ILLINOIS per terms agreed upon in LICENSEE's usage contract.

|                              | Center for Excellence in Soft Materials                 |          |                  |
|------------------------------|---|----------|------------------|
|                              |   | Self Use | Staff Assisted & |
| Instrument                   | Technique   | (\$/hr)  | Training (\$/hr) |
| Malvern Zetasizer            | Particle Size and Zeta Potential Measurements           | \$130    | \$210            |
| Metrohm 915 KF Ti-Touch      | Volumetric Karl Fischer Titration                       | \$130    | \$210            |
| Metrohm 917 Coulometer       | Coulometric Karl Fischer Titration                      | \$130    | \$210            |
| Nanoparticle tracking NS300  | Nanoparticle tracking analysis                          | \$130    | \$210            |
| Novocontrol C47 Analyzer     | Dielectric, Conductivity and Impedance Spectrometer     | \$130    | \$210            |
| Q50-TGA                      | Thermogravimetric Analysis                              | \$130    | \$210            |
| Q800-DMA                     | Dynamic Mechanical Analysis                             | \$130    | \$210            |
| Shimadzu DTA-50              | Differential Thermal Analysis                           | \$130    | \$210            |
| TA DHR-3 Rheometer           | Discovery Hybrid Rheometer                              | \$130    | \$210            |
| TA DSC 2500                  | Differential Scanning Calorimetry                       | \$130    | \$210            |
| Tosoh EcoSEC GPC             | Gel Permeation Chromatography                           | \$130    | \$210            |
|                              | Laser and Spectroscopy Facility                         | •        |                  |
|                              |   | Self Use | Staff Assisted & |
| Instrument                   | Technique   | (\$/hr)  | Training (\$/hr) |
| Agilent CARY 5000            | Spectrophotometry                                       | \$160    | \$240            |
| Custom Experiment            | Custom Laser Experiments                                | \$160    | \$240            |
| Ellipsometer-RC2-JAWoollam   | Spectroscopic and Mueller matrix ellipsometry           | \$170    | \$250            |
| Gaertner Ellipsometer        | Ellipsometry  | \$160    | \$240            |
| Horiba Xplora-Nano TERS-TEPL | Tip Enhanced Raman and PL Spectroscopy                  | \$160    | \$240            |
| Inspire OPO Laser            | Time-Domain Thermoreflectance, Custom Laser Experiments | \$160    | \$240            |
| LIBS - Keyence EA-300        | Laser Induced Breakdown Spectroscopy                    | \$160    | \$220            |
| Keyence VK-X1000             | Optical Profiler  | \$170    | \$250            |
| Montana Cryo Station         | Closed He Cycle Optical Cryo Station                    | \$70     | \$150            |
| Nanophoton Raman 11          | Raman Spectroscopy/Microscopy                           | \$160    | \$240            |
| Neaspec IR AFM               | Tip Enhanced Infrared Spectroscopy                      | \$160    | \$240            |
| Newport Solar Simulator      | Custom Experiments                                      | \$160    | \$240            |
| Nicolet Nexus 670 FTIR       | Fourier Transform Infrared Spectroscopy                 | \$160    | \$240            |
| OL 750 Spectroradiometer     | Spectroradiometry                                       | \$160    | \$240            |
| Oxford Cryo Station          | Closed He Cycle Cryo Station                            | \$70     | \$150            |
| Photoluminescence            | Photoluminescence/Fluorescence                          | \$160    | \$240            |
| Quantum Diamond Microscope   | N-vacancy magnetometry                                  | \$160    | \$240            |
| Rame-Hart Contact Angle      | Contact Angle Goniometry                                | \$160    | \$240            |
| SLM-ISS Fluorometer          | Photoluminescence/Fluorescence                          | \$160    | \$240            |
| Solar Simulator - Oriel      | Solar Simulator illuminator source                      | \$160    | \$240            |
| Thermo-Nicolet Is-50 FTIR    | Fourier-Transform IR spectroscopy                       | \$160    | \$240            |
| Time Resolved PL             | Photoluminescence/Fluorescence                          | \$160    | \$240            |
| Tsunami Ti-Sapphire Laser    | Time-Domain Thermoreflectance                           | \$160    | \$240            |
| Tsunami Ti-Sapphire Laser 2  | Time-Domain Thermoreflectance                           | \$160    | \$240            |
| Two Photon Microscopy        | Optical Microscopy                                      | \$160    | \$240            |
| Varian Cary5G UV-VIS-NIR     | Spectrophotometry                                       | \$160    | \$240            |
| Witec Alpha NSOM             | Near Field Scanning Optical Microscopy                  | \$160    | \$240            |
| Woollam VAS Ellipsometer     | Spectroscopic Ellipsometry                              | \$160    | \$240            |

| Micro & Nano-Fabrication Facility |   |          |                  |
|-----------------------------------|---|----------|------------------|
|                                   |   | Self Use | Staff Assisted & |
| Instrument                        | Technique   | (\$/hr)  | Training (\$/hr) |
| ADT 7122 Wafer Dicer              | Automated sample dicer  | \$160    | \$240            |
| AJA Sputter Coater                | Sputter Coater  | \$160    | \$240            |
| AJA Sputter Coater 2              | Sputter Coater  | \$160    | \$240            |
| AJA Sputter Coater 3              | Sputter Coater  | \$160    | \$240            |
| AJA Sputter Coater 4              | Sputter Coater  | \$160    | \$240            |
| Atomic Layer Deposition           | Atomic Layer Deposition   | \$160    | \$240            |
| Atomic Layer Deposition 2         | Atomic Layer Deposition   | \$160    | \$240            |
| Ball Bonder                       | Ball Bonder   | \$160    | \$240            |
| Cleanroom                         | Cleanroom   | \$160    | \$240            |
| CM Furnace                        | Furnace   | \$70     | \$150            |
| Desert Cryo Probe Station         | Probe Station   | \$160    | \$240            |
| E-beam Evaporator 1               | Electron Beam Evaporation   | \$160    | \$240            |
| E-beam Evaporator 2               | Electron Beam Evaporation   | \$160    | \$240            |
| E-beam Evaporator 4               | Electron Beam Evaporation   | \$160    | \$240            |
| Graphene Furnace                  | Furnace for the growth of carbon nanotubes and graphene layers                | \$70     | \$150            |
| Harrick Plasma Cleaner            | Plasma Cleaner  | \$160    | \$240            |
| Heidelberg Maskless Writer        | Maskless wafer aligner  | \$165    | \$245            |
| Hydrogen Vacuum Furnace           | Furnace   | \$70     | \$150            |
| Ion Mill Evaporator               | Ion Mill & Thermal Evaporator   | \$160    | \$240            |
| Jandel 4 Point Probe              | Four point probe  | \$160    | \$240            |
| Lapping polishing bonding PM6     | Precision Lapping and Polishing with Wafer Bonding                            | \$164    | \$244            |
| Lindberg 3 Zone Furnace-2 inch    | Furnace   | \$70     | \$150            |
| March RIE2                        | Reactive Ion Etcher for polymer samples                                       | \$160    | \$240            |
| Mitutoyo Microscope               | Optical Microscope  | \$160    | \$240            |
| MTI Furnace - 2 inch              | Furnace   | \$70     | \$150            |
| Nanomaster RIE                    | Reactive Ion Etcher for polymer samples                                       | \$160    | \$240            |
| Nanoscribe 3D Printer             | Laser lithography 3D printer  | \$165    | \$245            |
| Olympus Microscope                | Optical Microscope  | \$160    | \$240            |
| Oven-Vacuum                       | Oven  | \$70     | \$150            |
| Parylene Coater                   | Parylene Deposition - SCS Labcoter 2  | \$160    | \$240            |
| PECVD 2                           | Plasma Enhanced Chemical Vapor Deposition                                     | \$160    | \$240            |
| Probe Station                     | Probe Station   | \$160    | \$240            |
| Raith EBPG5150                    | Electron Beam Lithography   | \$200    | \$280            |
| Raith e-Line                      | Electron Beam Lithography   | \$160    | \$240            |
| RaithPrep                         | Cleanroom   | \$160    | \$240            |
| Reactor Vacuum Furnace            | Furnace   | \$70     | \$150            |
| RIE - Plasma-Therm                | Reactive Ion Etcher   | \$160    | \$240            |
| RIE - SAMCO 10NR                  | Reactive Ion Etcher   | \$160    | \$240            |
| RTA Furnace                       | Furnace   | \$160    | \$240            |
| RTA Furnace-MTI 1200X-4-RTP       | Furnace   | \$160    | \$240            |
| Suss MJB3 - Deep UV               | Mask Aligner - Deep UV  | \$0      | \$210            |
| Suss MJB3 - Mask Aligner          | Mask Aligner  | \$0      | \$210            |
| Suss MJB4 - Mask Aligner          | Mask Aligner  | \$0      | \$210            |
| Thermal Evaporator                | Thermal Evaporation   | \$160    | \$240            |
| Tube Furnace - 6 inch             | Furnace   | \$70     | \$150            |
| UV-Ozone Cleaner                  | UV-Ozone substrate cleaning tool  | \$0      | \$80             |
| Wedge Bonder                      | Wedge Bonder  | \$160    | \$240            |
| Westbond Bonder                   | Wire Bonder   | \$160    | \$240            |
|                                   | alladium incurs an additional charge of \$4 per every 10 nm deposited or frac |          | ,=               |

| Microscopy-Scanning Probe              |  |              |                  |
|--|--|--------------|------------------|
|  | Which oscopy-Scanning Probe                            | Calfilla     | C+-ff A:-+  0    |
|  |  | Self Use     | Staff Assisted & |
| Instrument                             | Technique  | (\$/hr)      | Training (\$/hr) |
| Asylum AFM 1                           | Atomic Force Microscopy                                | \$130        | \$210            |
| Asylum AFM 2                           | Atomic Force Microscopy                                | \$130        | \$210            |
| Asylum Cypher AFM                      | Atomic Force Microscopy/High Resolution                | \$130        | \$210            |
| Asylum MFP-3D-Bio AFM                  | Atomic Force Microscopy for biological materials       | \$130        | \$210            |
| Dektak 3030                            | Surface Profilometry                                   | \$130        | \$210            |
| Hysitron Tip                           | Nanoindentation  | \$70         | \$150            |
| Hysitron Tribolndenter                 | Nanoindentation  | \$130        | \$210            |
| Leitz Microhardness                    | Microhardness tester                                   | \$70         | \$150            |
| Molecular Vista PiFM-Raman             | Photo-induced Force Microscopy                         | \$160        | \$240            |
| Piuma Nanoindenter                     | Nanoindentation  | \$130        | \$210            |
| SPM Offline Analysis                   | SPM Offline Analysis                                   | \$2          | \$82             |
|  | Microscopy-Scanning Electron                           |              |                  |
|  |  | Self Use     | Staff Assisted & |
| Instrument                             | Technique  | (\$/hr)      | Training (\$/hr) |
| HELIOS 600i FIB                        | Scanning Electron/Focused Ion Beam Microscopy          | \$170        | \$250            |
| Hitachi S4800 SEM                      | Scanning Electron Microscopy/High Resolution           | \$170        | \$250            |
| JEOL 6060LV SEM                        | Scanning Electron Microscopy/Low Vacuum                | \$140        | \$220            |
| JEOL 7000F SEM                         | Scanning Electron Microscopy/Analytical SEM            | \$170        | \$250            |
| Scios 2 FIB                            | Scanning Electron/Focused Ion Beam Microscopy          | \$170        | \$250            |
| Thermo Axia ChemSEM                    |  | \$160        | \$240            |
| THEITIO AXIA CHEHISEIVI                | Scanning Electron Microscopy/Low Vacuum                | \$160        | \$240            |
|  | Microscopy-Transmission Electron                       |              |                  |
|  |  | Self Use     | Staff Assisted & |
| Instrument                             | Technique  | (\$/hr)      | Training (\$/hr) |
| Hitachi 9500                           | Transmission Electron Microscopy                       | \$170        | \$250            |
| JEOL 1400 TEM                          | Transmission Electron Microscopy                       | \$170        | \$250            |
| JEOL 2010 LaB6                         | Transmission Electron Microscopy                       | \$165        | \$245            |
| JEOL 2100 Cryo TEM                     | Transmission Electron Microscopy                       | \$165        | \$245            |
| Thermo Talos F200X TEM-STEM            | Transmission Electron Microscopy                       | \$200        | \$280            |
| Thermo Themis Z TEM-STEM               | (Scanning) Transmission Electron Microscopy/Analytical | \$200        | \$280            |
| ThermoFisher Glacios Cryo-TEM          | Cryo-TEM for SPA, tomography and micro-ED              | \$200        | \$280            |
|  | Support Equipment                                      |              |                  |
|  |  | Self Use     | Staff Assisted & |
| Instrument                             | Technique  | (\$/hr)      | Training (\$/hr) |
|  | -  | \$70         |                  |
| Allied Multiprep                       | TEM sample preparation SEM Carbon Coater               |              | \$150            |
| Carbon Rod Coater Carbon String Coater | SEM Carbon Coater                                      | \$70<br>\$70 | \$150<br>\$150   |
|  |  | \$70         | \$150            |
| FEI Vitrobot                           | Cryo-plunge for TEM sample preparation                 |              |                  |
| FEI Mark IV Vitrobot                   | Cryo-plunge for TEM sample preparation                 | \$70         | \$150            |
| Gatan CryoPIPS                         | Cryo-lon Miller for TEM sample preparation             | \$70<br>\$70 | \$150            |
| Gatan PECS II                          | Ion Miller for SEM sample preparation                  | -            | \$150            |
| Leica EM UC6 Microtome                 | Microtome for TEM sample preparation                   | \$70         | \$150            |
| PicoIndenter                           | Nanoindentation  | \$165        | \$245            |
| Princeton WS-25 Wire Saw               | Wire Saw - High Precision                              | \$70         | \$150            |
| SEM Sputter Coater 1                   | SEM Sputter Coater                                     | \$70         | \$150            |
| SEM Sputter Coater 2                   | SEM Sputter Coater                                     | \$70         | \$150            |
| Tergeo EM Plasma Cleaner               | Plasma Cleaner for TEM sample preparation              | \$70         | \$150            |
| Vibratory Polisher 1                   | Vibratory Polisher                                     | \$70         | \$150            |
| Vibratory Polisher 2                   | Vibratory Polisher                                     | \$70         | \$150            |

|                                 | Physical Property Measurement                                  |           |                   |
|---------------------------------|--|-----------|-------------------|
|                                 | ,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,                        | Self Use  | Staff Assisted &  |
| Instrument                      | Technique  | (\$/hr)   | Training (\$/hr)  |
| QD MPMS3 SQUID                  | Magnetic Property Measurment System                            | \$70      | \$150             |
| QD MPMS3 SQUID B                | Magnetic Property Measurment System                            | \$70      | \$150             |
| QD Opticool                     | Optical Cryostat   | \$70      | \$120             |
| QD PPMS                         | Physical Property Measurment System                            | \$71      | \$151             |
| QD PPMS B                       | Physical Property Measurment System                            | \$71      | \$151             |
|                                 | Surface Analysis   |           |                   |
|                                 | ,  | Self Use  | Staff Assisted &  |
| Instrument                      | Technique  | (\$/hr)   | Training (\$/hr)  |
| Cameca LEAP 5000XS APT          | Local Electrode Atom Probe Tomography                          | \$200     | \$280             |
| Kratos Supra XPS                | X-Ray Photoelectron Spectroscopy / Imaging and Depth Profiling | \$170     | \$250             |
| NEC Pelletron                   | Ion Accelerator/Rutherford Backscattering Spectroscopy         | \$160     | \$240             |
| PEI Trift-III TOF-SIMS          | Secondary Ion Mass Spectroscopy/Time-of-Flight                 | \$160     | \$240             |
| PELITITE-III TOT-SIIVIS         | X-ray Analysis   | 7100      | Ş2 <del>4</del> 0 |
|                                 | A-lay Allalysis  | Colfilian | Ctoff Assisted 0  |
|                                 |  | Self Use  | Staff Assisted &  |
| Instrument                      | Technique  | (\$/hr)   | Training (\$/hr)  |
| Bruker D8 Advance               | X-ray diffraction with high-temperature stage                  | \$160     | \$240             |
| Dexco Laue                      | X-ray Diffraction/Laue   | \$160     | \$240             |
| PANalytical XPert               | High-resolution X-ray diffraction and reflectometry            | \$160     | \$240             |
| SAXS                            | X-Ray scattering: SAXS, WAXS, GI-SAXS and GI-WAXS              | \$160     | \$240             |
| Shimadzu EDXRF                  | X-Ray Fluorescence   | \$160     | \$240             |
| Siemens-Bruker D5000 XRD        | X-Ray Diffraction/Powder                                       | \$160     | \$240             |
| XRF-WDXRF Rigaku Supermini200   | Wavelength-dispersive x-ray fluorescence spectroscopy          | \$160     | \$240             |
|                                 | MRL Carver BioMaker Lab  | Self Use  | Staff Assisted &  |
| Instrument                      | Technique  | (\$/hr)   | Training (\$/hr)  |
| Autoclave                       | Sterilization  | \$50      | \$130             |
| Biosafety Cabinet-Room 0014     | Biosafety Cabinet  | \$0       | \$80              |
| Biosafety Cabinet-Room 0015     | Biosafety Cabinet  | \$0       | \$80              |
| CarverBioMakerLab               | Lab suite access for sample prep and imaging                   | \$20      | \$100             |
| Cellink BioX 3D bioplotter      | 3D printing (tissue, cell, etc. using bioinks)                 | \$160     | \$240             |
| Fisher Gravity Incubator        | Gravity Incubator  | \$0       | \$80              |
| Fisher Isotemp Incubator        | Isotemperature Incubator                                       | \$0       | \$80              |
| GESIM nanoplotter               | 3D printing for cell spotting                                  | \$160     | \$240             |
| Microfluidics flow control      | Optional flow control for the printer                          | \$50      | \$130             |
| Microfluidics printer           | 3D printing of microfluidics structures                        | \$160     | \$240             |
| MTI electrospinner              | 3D printing of nanofibers                                      | \$160     | \$240             |
| Nanodrop                        | DNA, RNA or protein concentration measurement                  | \$70      | \$150             |
| Optima LE-80 Ultracentrifuge    | Ultracentrifuge  | \$70      | \$150             |
| Polarized Optical Microscope    | Optical Microscopy   | \$160     | \$240             |
| Thermo CO2 incubator-bottom*    | CO2 incubator  | \$20      | \$100             |
| Thermo CO2 incubator-top*       | CO2 incubator  | \$20      | \$100             |
| Zeiss Axio-Inverted Microscope  | Fluorescence Microscopy  | \$160     | \$240             |
| Zeiss LIVE7 Confocal Microscope | Fluorescence Confocal Microscopy                               | \$160     | \$240             |
|                                 | *Maximum charge of 2 hours per day of usage.                   |           |                   |

|                                   | Biomaterial Services Lab  |                     |                                      |
|-----------------------------------|---|---------------------|--------------------------------------|
| Instrument                        | Technique   | Self Use<br>(\$/hr) | Staff Assisted &<br>Training (\$/hr) |
| Bio-BioSEM                        | Bio SEM Prep  | N/A                 | \$78                                 |
| Bio-Embed                         | Embedding & Deparaffinization   | N/A                 | \$78                                 |
| Bio-EMScopeVM                     | VDL Scope Tech Time   | N/A                 | \$93                                 |
| Bio-LMSect                        | Trim & LM Sectioning  | N/A                 | \$78                                 |
| Bio-NegDevelop                    | Negative Development  | N/A                 | \$95                                 |
| Bio-NegScan                       | Negative Scanning   | N/A                 | \$80                                 |
| Bio-NegStain                      | Negative Staining & Grids   | N/A                 | \$80                                 |
| Bio-OptoMicro                     | Optical Camera Tech Time  | N/A                 | \$220                                |
| Bio-TEMSect                       | Trim & TEM Sectioning   | N/A                 | \$94                                 |
| Reichart Ultracut                 | Microtome for TEM sample preparation                                      | \$70                | \$150                                |
|                                   | L-Advanced Materials Testing and Evaluation Laborato                      |                     | 7130                                 |
| AWITE                             | Le-Advanced Waterials Testing and Evaluation Eaborato                     | ı y                 |                                      |
|                                   |   | Self Use            | Staff Assisted &                     |
| Instrument                        | Technique   | (\$/hr)             | Training (\$/hr)                     |
| Servo-hydraulic 1*                | Uniaxial testing  | \$200               | \$280                                |
| Servo-hydraulic 2*                | Uniaxial testing  | \$200               | \$280                                |
| Servo-hydraulic 3*                | Uniaxial testing  | \$200               | \$280                                |
| Servo-hydraulic 4*                | Uniaxial testing  | \$200               | \$280                                |
| Servo-hydraulic 5*                | Uniaxial testing  | \$200               | \$280                                |
| Servo-hydraulic 6-Bi-Axial*       | Bi axial testing (axial and torsion)                                      | \$300               | \$380                                |
| Electro-Mechanical 1*             | Uniaxial testing  | \$200               | \$280                                |
| Electro-Mechanical 2*             | Uniaxial testing  | \$200               | \$280                                |
| Electro-Mechanical 3*             | Uniaxial testing  | \$200               | \$280                                |
| Thermo-Mechanical 1*              | Uniaxial testing with combined thermal loading                            | \$300               | \$380                                |
| Thermo-Mechanical 2*              | Uniaxial testing with combined thermal loading                            | \$300               | \$380                                |
| Thermo-Mechanical 3*              | Uniaxial testing with combined thermal loading                            | \$300               | \$380                                |
| Thermo-Mechanical 4*              | Uniaxial testing with combined thermal loading                            | \$300               | \$380                                |
| Thermo-Mechanical 5*              | Uniaxial testing with combined thermal loading                            | \$300               | \$380                                |
| Split-Hopkinson Bar*              | High strain rate material testing   | \$275               | \$355                                |
| Creep Stand*                      | Temperature dependent creep testing                                       | \$100               | \$180                                |
| Rotating Bending*                 | Rotating bending high cycle fatigue testing                               | \$100               | \$180                                |
| Dynamic Mechanical Analysis*      | Dynamic mechanical analysis   | \$200               | \$280                                |
| High Speed - Thermal Camera*      | High speed and/or thermal imaging   | \$100               | \$180                                |
| Strain - Thermal Acquisition Box* | Additional strain, thermocouple, analog input data acquisition            | \$100               | \$180                                |
| 3D Digital Image Correlation*     | Calibration, acquisition, and/or analysis of 3D surface coordinates       | \$100               | \$180                                |
| 100lbf Electrodynamic Shaker*     | Electrodynamic Shaker   | \$200               | \$280                                |
| Laser vibrometer*                 | Non-contact vibration measurements of a surface                           | \$100               | \$180                                |
| Paint Booth                       | Speckle painting for digital image correlation sample preparation         | \$12                | \$92                                 |
| Laser Engraver                    | Engraving for digital image correlation sample preparation                | \$12                | \$92                                 |
| Sand Blasting                     | Sandblasting for digital image correlation sample preparation             | \$12                | \$92                                 |
| Wet-Dry Sander 1                  | Polishing for digital image correlation sample preparation                | \$12                | \$92                                 |
| Wet-Dry Sander 2                  | Polishing for digital image correlation sample preparation                | \$12                | \$92                                 |
| Vibration Polisher                | Polishing for high magnification digital image correlation sample prepara | \$12                | \$92                                 |
| Pico Saw                          | Diamond blade wafer saw for sample preparation                            | \$24                | \$104                                |
| Ultrasonic Bath                   | Ultrasonic bath for sample preparation                                    | \$24                | \$104                                |
|                                   | * Maximum charge of 2 hours per day of usage.                             |                     | , == .                               |

| Battery Fabrication and Characterization Laboratory |   |                     |                                      |
|---|---|---------------------|--------------------------------------|
| Instrument  | Technique   | Self Use<br>(\$/hr) | Staff Assisted &<br>Training (\$/hr) |
| BatteryLabAccess                                    | Access to 15+ tools for cells/pouch fabrication     | \$20                | \$100                                |
| Calendaring   | Hot roller press                                    | \$50                | \$130                                |
| Coin cell fabrication                               | Li-ion batteries coin cell fabrication in glovebox  | \$50                | \$130                                |
| Electrochem characterization*                       | Potentiostat, gavanostat, electrchemical impedance  | \$70                | \$150                                |
| Magnetic stirrer                                    | Stirring and mixing solutions                       | \$20                | \$100                                |
| Mixer - Thinky                                      | Slurry mixing                                       | \$20                | \$100                                |
| Pouch cell fabrication                              | Li-ion batteries pouch cell fabrication in glovebox | \$50                | \$130                                |
| Slurry coater                                       | Automated coater for metal foils                    | \$60                | \$140                                |
| Vacuum Oven - Battery Lab*                          | Up to 150C heating under vacuum                     | \$60                | \$140                                |
| Vigor glovebox                                      | With sealer, die cutter, welding and crimper        | \$60                | \$140                                |
| * Maximum charge of 1 hour per day of usage.        |   |                     |                                      |