

**CASE WESTERN RESERVE UNIVERSITY  
SDLE CENTER INDUSTRIAL RATES**

<b>STAFF TIME</b>	<u>Hourly</u>	<u>Daily</u>
Research Technician/Engineer	\$ 100	\$ 800
Research Post-Doctorate	\$ 100	\$ 800

<b>OUTDOOR SDLE SUNFARM SOLAR EXPOSURES</b>	<u>Monthly</u>
Sample Tray - 19 x 16 inch	\$ 220
Full Size Module	\$ 440
IV Curve Tracing	\$ 495
<i>ALL EXPOSURES ARE SUBJECT TO A ONE-TIME \$100 SETUP FEE</i>	
(Each sample tray holds 18 samples at 4x or 5x concentration or 38 samples at 1x or 2x concentration)	

<b>INDOOR SOLAR EXPOSURE EQUIPMENT</b>	<u>Hourly</u>	<u>Daily</u>
All Real Apollo Solar Simulator	N/A	\$ 275
Newport Solar Simulator	N/A	\$ 275
Spectrolab XT-30	N/A	\$ 1,320
Q-Lab Q Sun Xe-3HS	N/A	\$ 275
Q-Lab QUV Spray	N/A	\$ 100
IV Curve Tracing	N/A	\$ 200
<i>ALL EXPOSURES ARE SUBJECT TO A ONE-TIME \$100 SETUP FEE</i>		

<b>INDOOR ENVIRONMENTAL EXPOSURE EQUIPMENT</b>	<u>Hourly</u>	<u>Daily</u>
CSZ SPHS 100	N/A	\$ 1,100
CSZ SPHS 100 with light rack	N/A	\$ 1,320
CSZ ZPH-8	N/A	\$ 100
Q-Lab Q-Fog	N/A	\$ 4
<i>ALL EXPOSURES ARE SUBJECT TO A ONE-TIME \$100 SETUP FEE</i>		

<b>SPECTROSCOPY EQUIPMENT</b>	<u>Hourly</u>	<u>Daily</u>
Agilent FTIR	\$ 200	\$ 1,320
Agilent Flourimeter	\$ 200	\$ 1,320
Wyatt Calypso	\$ 200	\$ 1,320
Wyatt Dawn Heleos II	\$ 200	\$ 1,320
Filmetrics PARTS-UV Spectrometer	\$ 200	\$ 1,320
HunterLabs Ultrascan Pro Spectrometer	\$ 200	\$ 1,320
Scattermaster Scatterscope	\$ 200	\$ 1,320
Varian Cary 6000i UV-VIS	\$ 200	\$ 1,320
VUV-LPLS Spectrophotometer	\$ 200	\$ 1,320
Woolam VUV-VASE	\$ 200	\$ 1,320

<b>OTHER EQUIPMENT</b>	<u>Hourly</u>	<u>Daily</u>
Panel Laminator	\$ 200	\$ 1,320
Spin Coater/Wafer Processing	\$ 200	\$ 1,320
Kruss Drop Shape Analyzer	\$ 200	\$ 1,320
Electro Luminescence Imaging Camera	\$ 200	\$ 1,320
Visual Imaging Camera	\$ 200	\$ 1,320
Infra-Red Thermography Camera	\$ 200	\$ 1,320

<b>DATA ANALYTICS</b>	<u>Monthly</u>
Data Storage (per terabyte)	\$ 170
Energy-CRADLE Cluster (per terabyte)	\$ 425
Energy-CRADLE Data Ingestion	\$ 3,400
<i>ALL DATA ANALYTICS ARE BASED ON A MINIMUM OF 500 GIGABYTES</i>	