

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

STAFF TIME

	Hourly	Daily
Research Technician/Engineer/Post-Doctorate	\$ 100	\$ 800

OUTDOOR SDLE SUNFARM SOLAR EXPOSURES

	Monthly	
Sample Tray - 19 x 16 inch	\$ 220	
Full Size Module	\$ 440	
IV Curve Tracing	\$ 495	

ALL EXPOSURES ARE SUBJECT TO A ONE-TIME \$100 SETUP FEE

(Each sample tray holds 18 samples at 4x or 5x concentration or 38 samples at 1x or 2x concentration)

INDOOR SOLAR EXPOSURE EQUIPMENT

	Hourly	Daily
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

ALL EXPOSURES ARE SUBJECT TO A ONE-TIME \$100 SETUP FEE

INDOOR ENVIRONMENTAL EXPOSURE EQUIPMENT

	Hourly	Daily
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

ALL EXPOSURES ARE SUBJECT TO A ONE-TIME \$100 SETUP FEE

SPECTROSCOPY EQUIPMENT

	Hourly	Daily
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

OTHER EQUIPMENT

	Hourly	Daily
Optimol SRV® 4 VAC Test System	\$ 200	\$ 1,320
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

DATA ANALYTICS

	Monthly	
Data Storage (per terabyte)	\$ 170	
Energy-CRADLE Cluster (per terabyte)	\$ 425	
Energy-CRADLE Data Ingestion	\$ 3,400	

ALL DATA ANALYTICS ARE BASED ON A MINIMUM OF 500 GIGABYTES