

CAMN Industrial Liaison Program (ILP) Equipment and Labor Rates

as of 4/7/2008

	Research Rate	Liaison Rate	External Rate	
	for outside academic & gov't use, including sponsored research	for Full Membership in CAMN ILP	for Limited Collaboration Agreement in CAMN ILP	for Testing Agreement in CAMN ILP
ADDITIONAL FEES:	None	Membership fee varies by projected use	\$500 Access Fee	None
OVERHEAD APPLIED TO RATES SHOWN BELOW (not charged on Additional Fees):	58.73%	12.50%	41.28%	58.73%
LABOR RATES:				
Students	25	25	25	
Technicians	50-60	50-60	50-60	
Research Scientists	50-75	50-75	50-75	
Faculty	100	100	100	
EQUIPMENT RATES:				
<i>Rates listed are 'per hour' and located in Whitaker Laboratory unless otherwise noted.</i>				
SEM's				
Hitachi 4300 FEGSEM	50	160	400	
JEOL 6400F CL SEM	35	125	350	
FEI Strata DB 235 FIB	50	160	400	
JEOL 733 EPMA Microprobe	35	125	350	
FEI XL30 ESEM (Environmental)	35	130	400	
JEOL 840 (student)	1	150	375	
TEM's				
JEOL 2000FX TEM	40	125	350	
Philips EM 420 TEM	15	100	300	
JEOL 2200FS	55	200	500	
STEM's				
VG HB 603 Scanning TEM	55	250	600	
GEMINI-LEO Electron Beam (Nanolithography) - <i>Sh. Fairchild Lab</i>	40	240	600	
Specimen Prep				
Ion Micro Mill (PIPS)	5/sample	5/sample	5/sample	
Evaporator	7/sample	7/sample	7/sample	
Plasma Cleaner	1/sample	1/sample	1/sample	
Atomic Force Microscopy	5	40	150	
Profilometer	20 up to 10 hrs; 1 over 10 hrs	40 up to 10 hrs; 2 over 10 hrs	60 up to 10 hrs; 3 over 10 hrs	
Scienta ESCA 300 (equipment time only) - <i>Sinclair Lab</i>	40 up to 8 hrs; 25 over 8 hrs	80	160	
Laser Raman System	50	250 (or 2000/day)	312.50 (or 2500/day)	
UV-Vis-NIR DRS Spectroscopy	50	250 (or 2000/day)	312.50 (or 2500/day)	
Solid State NMR	10 or max 75/day	45 or max 450/day	70 or max 700/day	
FTIR Spectrometer	24	75	175	
Light Optical Microscopy supplies	12/sample	24/sample	35/sample	
Leco Microhardness tester	20	40	60	
Leco M400, Leco M100	20	40	60	
Light Optical Metallographs (Olympus Vanox)	15	30	40	

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Quantitative Scope (Nikon Microphet w/Digitalizing pad)	10	20	30	
Automatic Polishers	10/run	20/run	30/run	
Clemex	25	50	100	
Abrasive Cutting:				
LECO CM-20	3/cut	4.50/cut	6/cut	
Buehler Isomet	2/cut	3/cut	4/cut	
Struers Accuton-50	4/cut	6/cut	8/cut	
Furnaces				
(After 48 hrs, \$1-\$2-\$3/hr, respectively)	4	8	12	
With Gas	2	2	2	
Salt Bath	4	8	12	
X-Ray Facility	34	67	100	
Sputtering System	100/run	200/run	300/run	
TG/DTA Thermal Analysis (Dilatometer)	50/run	150/run	330/run	
High Speed Saw (Struers)	2/cut	10/cut	50/cut	
Wire Saw	4/cut	8/cut	12/cut	
Particle Size Analyzer (LA 910)	30/sample	60/sample	100/sample	
Resistance Furnace	2	4	5	
Isopress	25/run	50/run	75/run	
Hi Temp Furnace	3 up to 5 hrs; 1 over 5 hrs	50	75	
Vacuum Hot Press < 24 hrs	50/run (run=<24 hrs)	200/run (run=<24 hrs)	500/run (run=<24 hrs)	
Vacuum Hot Press > 24 hrs	2	8	20	
Diamond Saw (1 hr min)	2	4	6	
Rheovibron	2	6	20	
Clean Room DI H2O system	1/gal	20/gal	50/gal	
Clean Room (15 min minimum)	5	30	120	
Inst Cap Rheometer - Packard Lab	7	14	50	
Brabender Extruder - Packard Lab	15	25	40	
Rotary Viscometer - Packard Lab	15	25	40	
Rheometrics w/o liquid nitrogen	10/run	25/run	100/run	
Rheometrics w/liquid nitrogen	20/run	50/run	150/run	
Tetrahedron Press	14	28	42	
DSC/TGA	10	20	40	
DMA/TMA/DEA	10	20	40	
Flow Calorimetry	5/run	20/run	100/run	

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Environmental Chambers	70/week	140/week	210/week	
Scanning Acoustic Microscope (C-SAM)	10	25	75	
UV Ozone Chamber	1 (30 minute min.)	2	5	
Contact Angle Goniometer	10	20	50	
Materials Instructional Technology Lab				
MITL - Epson Expression 1680 Scanner (30 minute minimum)	10/hr			
MITL - HP2500CP Poster Printer	12.00/sq ft			
MITL - Xerox/Tetronics 8200 Thermal Printer - Standard Paper	1.00/pg			
MITL - Xerox/Tetronics 8200 Thermal Printer - Hi-Gloss Paper	1.50/pg			
MITL - Xerox/Tetronics 8200 Thermal Printer - Transparency	1.50/pg			
MITI - Codonics NP - 1660 Photographic Printer - Standard Paper	1.00/pg			
MITL - Codonics NP - 1660 Photographic Printer - Hi-Gloss Paper	2.00/pg			
MITL - Codonics NP - 1660 Photographic Printer - Transparency	3.00/pg			
Met Mechanical Testing	20	40	60	
- w/extensometer	25	50	80	
Instron Fatigue w/computer	5	12	25	
Instron Fatigue w/o computer	2	8	15	
Izod Impact Tester	0	1/sample	5/sample	
Evaporator System	10	20	40	
Thin Film Mech Test System	10/run	20/run	40/run	