

CHANL Instrument Rates

MICROSCOPY COSTS, PER HOUR

INSTRUMENT	DESCRIPTION	UNC	Non-UNC	INDUSTRY
SEM	Hitachi S-4700	\$26	\$39	\$52
Nanoindenter	Optics11 Piuma	\$12	\$18	\$24
FIB, SEM ONLY	FEI Helios 600 Nanolab	\$35	\$53	\$70
FIB	FEI Helios 600 Nanolab	\$75	\$113	\$150
TEM	ThermoFisher F200X	\$50	\$75	\$150
AFM	Asylum MFP3D	\$35	\$53	\$70
MSP	Craic Microspectrophotometer	\$23	\$35	\$46

FABRICATION COSTS, PER HOUR

INSTRUMENT	DESCRIPTION	UNC	Non-UNC	INDUSTRY
Cleanroom, basic tools	Any tools not listed below.	\$29	\$44	\$58
ALD	Cambridge Nanotech Savannah S200	\$23	\$35	\$46
PECVD	Advanced Vacuum Vision 310	\$40	\$60	\$80
DRIE	Alcatel AMS 100	\$46	\$69	\$92
E-beam Evaporator	KJL PRO Line PVD 75	\$40	\$60	\$80
DC Sputter Deposition	KJL PVD 75	\$40	\$60	\$80
E-beam Evaporator	Thermionics	\$40	\$60	\$80
Mask Aligner	KarlSuss MA6/BA6	\$40	\$60	\$80

SPECTROSCOPY COSTS, PER HOUR

INSTRUMENT	DESCRIPTION	UNC	Non-UNC	INDUSTRY
EDS	Oxford	Price included in the cost of the m		
UPS	Kratos Axis Ultra	\$35	\$53	\$70
XPS	Kratos Axis Ultra	\$35	\$53	\$70
Ellipsometer	JA Woolam Co. Inc. VASE	\$17	\$26	\$34
MSP	Craic Microspectrophotometer	\$23	\$35	\$46
FTIR - Conventional	Conventional FTIR	\$17	\$26	\$34
FTIR - Microscopy	Microscope FTIR	\$23	\$35	\$46
XRD	Rigaku SmartLab	\$29	\$44	\$58

TRAINING STAFF TIME, PER HOUR

Labor		\$58	\$69	\$86
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