

MNC Industrial Rates--Access and Equipment Use

valid 8/1/16 to 7/31/17 RATES SUBJECT TO CHANGE

ACCESS/USE	LOCATIONS	UNITS	RATE	MONTHLY MAX
ACCESS FEE	PAN cleanroom, Keller cleanroom, Keller Areas 1-3	monthly fee	\$97.85	\$97.85
LAB USAGE FEE	PAN cleanroom, Keller cleanroom, Keller Areas 1-3	per lab session	\$76.43	\$611.44
PAN NANO-BIO LAB	PAN 181	per hour	\$78	\$624
PAN NANO-MATERIALS LAB	PAN 185	per hour	\$78	\$624

CATEGORIES	INCLUDED EQUIPMENT	UNITS	RATE
2D MATERIALS GROWTH	Graphene furnace, TMD furnace	minute	\$0.90
ALD-ATOMIC LAYER DEP	ALD Savannah 200, Fiji PEALD	minute	\$1.47
ALIGNERS	MA6, MABA6, MA6-P	minute	\$2.70
ANALYTICAL EQUIPMENT	AFM, P16, P7, HS SCOPE	minute	\$2.24
CRITICAL POINT DRYER	Tousimis system	minute	\$5.20
DRY ETCHING	Ion Mill, Oxford RIE, STS etcher, AV, Deep Trench etcher, XeF2 etcher	minute	\$2.81
E-BEAM EVAPORATION	CHA, Temescal and Varian	minute	\$2.40
E-BEAMLITHOGRAPHY	Vistec EBPG 5000+	minute	\$3.75
FIB	FEI Quanta 200 3D	minute	\$2.85
LASERWRITER	Heidelberg DWL 200	minute	\$1.71
LPCVD	Thermco LPCVD system	minute	\$5.84
MASKMAKING	Min feature size > 1.5um	per mask	\$562.5
MASKMAKING	1.0um < Min feature size < 1.5um	per mask	\$1200
MINIBRUTE FURNACE	Minibrute furnace	minute	\$1.40
NANOIMPRINTER	Nanonex	minute	\$4.18
ORIEL	Oriel	minute	\$1.36
OXIDATION/DIFFUSION	Tylan Oxidation system	minute	\$3.24
PECVD	PECVD, HD PCVD	minute	\$2.09
RAPID THERMAL ANNEALING	Modular Process RTA	minute	\$4.03
SEM	Jeol SEM, Amray SEM	minute	\$2.09
SPINNERS	CEE equipment, Headway spinner	minute	\$0.94
SPUTTERING	AJA I, AJA II and PE2400 DC system	minute	\$2.92
STEPPER	Canon Stepper	minute	\$3.28
THERMAL EVAPORATION	Thermal Evaporator	minute	\$2.79
WAFER BONDING	Karl Suss SB6	minute	\$3.40
WAFER SAW	DISCO	minute	\$1.75

MISC CHARGE RATES	UNITS	RATE
EQUIPMENT RESERVATIONS	per reservation	\$45.00
SHORTCOURSE TRAINING FEE	per session	\$90.64
FIB TRAINING	per session	\$125
E-BEAMLITHO TRAINING	per session	\$625
HEIDELBERG LASERWRITER	Per session	\$200
STAFF LABOR	per hour	\$130
CLEAN SPACE FACILITY CHARGE	ft/month	\$65
NON-CLEAN SPACE FACILITY CHARGE	squ ft/month	\$1.40