

EQPMT NO.	ROOM NAME	NEW ROOM	OLD ROOM	EQUIPMENT TYPE	LOCATION IN ROOM	MANUFACTURER	Model #	W	D	H	WEIGHT	ELECTRIC	EM POWER	HVAC	WATER	VAC	AIR	GASES	REMARK	NOTE
M1	Microbiology Lab	G319		Refrigerator (2 door)	Floor	Continental	S2R	52	36	82		115/120V 10.1A	Yes						O.F.O.I.	
M2	Microbiology Lab	G319		Refrigerator/freezer	Floor	Frigidaire	FRT-16CRM	30	33	66		115/120V 4.8A	Yes						O.F.O.I.	
M3	Microbiology Lab	G319		Incubator	Benchtop	Quincy Lab	12-140	19	14	32		115/120V, 2.2A							O.F.O.I.	
M4	Microbiology Lab	G319		Incubator	Benchtop	Quincy Lab	12-140	19	14	32		115/120V, 2.2A							O.F.O.I.	
M5	Microbiology Lab	G319		Incubator	Benchtop	Quincy Lab	12-140	19	14	32		115/120V, 2.2A							O.F.O.I.	
M6	Microbiology Lab	G319		Incubator	Benchtop	Quincy Lab	12-140	19	14	32		115/120V, 2.2A							O.F.O.I.	
M7	Microbiology Lab	G319		Incubator	Benchtop	Quincy Lab	12-140	19	14	32		115/120V, 2.2A							O.F.O.I.	
M8	Microbiology Lab	G319		Incubator	Benchtop	Torrey Pines	IN-40	22	20	29		115/120V 1A							O.F.O.I.	
M9	Microbiology Lab	G319		Incubator	Floor	American	IS-41C	24	19	32		115/120V 2.2A	Yes						O.F.O.I.	
M10	Microbiology Lab	G319		Incubator/oven	Floor	Thelco	18	23	25	33		115/120V 12.1A	Yes						O.F.O.I.	
M11	Microbiology Lab	G319		Incubator	Floor	TBD						Dedicated	Yes						O.F.O.I.	Future
M12	Microbiology Lab	G319		Shaker	Benchtop	Labline	3527	22	31	33		115/120V							O.F.O.I.	
M13	Microbiology Lab	G319		Water bath	Benchtop	Precision	180 Series	15	15	16		115/120V 3.3A							O.F.O.I.	
M14	Microbiology Lab	G319		Water bath	Benchtop	Labline	Imperial 4	15	18	15		115/120V 9.4A							O.F.O.I.	
M15	Microbiology Lab	G319		Water bath, shaking	Benchtop	Precision	Model 50	37	14	13		115/120V 12.9A							O.F.O.I.	
M16	Microbiology Lab	G319		Water bath, shaking	Benchtop	Baxter	YB-521	12	20	13		115/120V 11A							O.F.O.I.	
M17	Microbiology Lab	G319		Water polisher	Benchtop	Millipore (See specification section 064023)	Milli-Q Reference	16	14	20		100-230V, 50/60Hz			PW				C.F.C.I.	Locate above sink
M18	Microbiology Lab	G319		Bio-safety cabinet	Floor	TBD													O.F.O.I.	Future
M19	Microbiology Lab	G319		Refrigerator (3 door)	Floor	Continental	S3R	78	37	82		115/120V 13.1A	Yes						O.F.O.I.	
B1	Biochemistry Lab	G324		Polarimeter	Benchtop	Perkin Elmer	241	40	18	12		120V, 60Hz, 400VAC							O.F.O.I.	
B2	Biochemistry Lab	G324		Refrigerator	Floor			24	28	68		120V, 60Hz, 4A	Yes						O.F.O.I.	
B3	Biochemistry Lab	G324		Cold box	Floor	Thermo Fisher	VCR4504A22	58	36	80		115V, 60Hz, 30A + additional outlet	Yes						O.F.O.I.	
B4	Biochemistry Lab	G324		Microwave	Benchtop	Sharp	Caroussel 2	24.5	19	15		120V, 60Hz, 1.47KW							O.F.O.I.	
B5	Biochemistry Lab	G324		Centrifuge	Floor	Avanti	J-26XP	28	40	59		208V/240V 50/60Hz							O.F.O.I.	Future
C1	Genetics / Cell-Molecular & Plant Biology Lab	G313		Ultra-Centrifuge	Floor	Soevall	RC-SC Plus	30	38	40		115/120V 14A NEMA 6-30P							O.F.O.I.	
C2	Genetics / Cell-Molecular & Plant Biology Lab	G313		Gel Doc. Station	Benchtop	Fotodyne System (w/o computer)	60-2105	17	13	36		115/120V, 1.28A							O.F.O.I.	
C3	Genetics / Cell-Molecular & Plant Biology Lab	G313		Refrigerator	Floor	GE	TBX 18W	30	32	65		115/120V 7A	Yes						O.F.O.I.	
C4	Genetics / Cell-Molecular & Plant Biology Lab	G313		Refrigerator	Floor	GE	TBX 18JA	30	32	65		115/120V 7A	Yes						O.F.O.I.	
C5	Genetics / Cell-Molecular & Plant Biology Lab	G313		Incubator	Benchtop	Torrey Pines	IN-30	22	20	16		115/120V 1A							O.F.O.I.	
C6	Genetics / Cell-Molecular & Plant Biology Lab	G313		Biological safety cabinet	Floor	TBD									Yes				O.F.O.I.	
C7	Genetics / Cell-Molecular & Plant Biology Lab	G313		Incubator	Benchtop	Torrey Pines	IN-30	22	20	16		115/120V 1A							O.F.O.I.	Future
O1	Organic Chemistry Lab	G321		Polarimeter	Benchtop	Autopol II		30	14	9		120V, 130W, 50/60Hz							O.F.O.I.	
O2	Organic Chemistry Lab	G321		GC	Benchtop	Gow-Mac	Series 400 G/C	20	20	28		115V, 60Hz, 900W							O.F.O.I.	1 compressed gas cylinder. Connected to computer (data)
O3	Organic Chemistry Lab	G321		Lab Microwave	Benchtop	Milestone		25	28	25		230V, 60Hz, 1200W, 15A							O.F.O.I.	Vent
O4	Organic Chemistry Lab	G321		Drying Oven	Benchtop	ColeParmer	Lab Oven model 05015-50	15	15	31		120V, ???							O.F.O.I.	
O5	Organic Chemistry Lab	G321		Rotovap	Benchtop	Buchi Brinkman	Rotovapor RE	34	21	30		110V, 60Hz, 0.8A bath: 110V, 1200W							O.F.O.I.	
O6	Organic Chemistry Lab	G321		Rotovap	Benchtop	Buchi Brinkman	Rotovapor EL	34	21	30		110V, 60Hz, 8W bath: 110V, 1200W							O.F.O.I.	
H1	Embryology/Histology	G323		Explosion-proof refrigerator	Floor	Labline	Frigid Cab	28	30	64		115/120V 4A	Yes						O.F.O.I.	Hardwired
H2	Embryology/Histology	G323		Microtome (manual)	Benchtop	American Optical		14	16	9									O.F.O.I.	
H3	Embryology/Histology	G323		Microtome (manual)	Benchtop	American Optical		14	16	9									O.F.O.I.	
H4	Embryology/Histology	G323		Microtome (manual)	Benchtop	American Optical		14	16	9									O.F.O.I.	
H5	Embryology/Histology	G323		-70 freezer	Floor	So-Low	CBS-9	57	30	47		115/120V 20A dedicated, NEMA6-30P	Yes						O.F.O.I.	
H6	Embryology/Histology	G323		Video Microscope	Benchtop	Leica	ATC 2000	9	10	21		115/120V, 60Hz							O.F.O.I.	
PC1	Perception & Cognition	G240		Undercounter refrigerator	Floor														C.F.C.I.	See specification
RM1	Research Methods Closet	G238A		Printer	Benchtop														O.F.O.I.	
AM1	Ante Room	G233A		Undercounter refrigerator	Floor														C.F.C.I.	See specification
CN1	Copy/Mail Room	G232		Copier	Floor														O.F.O.I.	
D1	Physics Prototyping Development Lab	G118		20" Drill press	Floor	Rockwell	Model 70-6X0	24	32	70		200V, 5.2A, 3 phase 1.5HP							O.F.O.I.	
D3	Physics Prototyping Development Lab	G118		Lathe (10" metal cutting)	Floor	Rockwell	Model 25-700	66	18	48		120V, 10A, single phase							O.F.O.I.	2ft clearance at all sides
D4	Physics Prototyping Development Lab	G118		Horizontal milling machine	Floor	Rockwell	Model 21-120	60	48	72		230-460V, 5.2A, 3 phase							O.F.O.I.	
D5	Physics Prototyping Development Lab	G118		Band saw	Floor	Rockwell	Model 28-345	60	40	80		200V, 6.9 A, 3 phase							O.F.O.I.	
D6	Physics Prototyping Development Lab	G118		Horizontal band saw	Floor	Rockwell	Model 20-900	48	24	36		120V, 10A, single phase							O.F.O.I.	
D7	Physics Prototyping Development Lab	G118		10" cabinet saw	Floor	Saw Stop	Professional Cabinet Saw	44	29.75	34		3 Hp, 1 Phase 230V 13A							O.F.O.I.	
D8	Physics Prototyping Development Lab	G118		CNC Machine	Benchtop	Sherline/Labvolt	5000	30	30	30		120V, 10A, single phase							O.F.O.I.	Connected to computer
D9	Physics Prototyping Development Lab	G118		CNC Machine	Benchtop	Sherline/Labvolt	5000	30	30	30		120V, 10A, single phase							O.F.O.I.	Connected to computer
D10	Physics Prototyping Development Lab	G118		CNC Machine	Benchtop	Sherline/Labvolt	4000	30	30	30		120V, 10A, single phase							O.F.O.I.	Connected to computer
D11	Physics Prototyping Development Lab	G118		CNC Machine	Benchtop	Sherline/Labvolt	4000	30	30	30		120V, 10A, single phase							O.F.O.I.	Connected to computer
D12	Physics Prototyping Development Lab	G118		Cast iron table w/ router	Floor	Bench Dog/Porter Cable	40-031/75192	30	24	48		120V, 10A, single phase							O.F.O.I.	
D14	Physics Prototyping Development Lab	G118		Granite Top on Stands	Floor			25	37	42									O.F.O.I.	
D15	Physics Prototyping Development Lab	G118		Dust collection system	Floor	Laguna Tools	MDC0560-0145 2HP Cyclonic dust collector	26	36	74		220V 20A 1 Phase							C.F.C.I.	No heating or cooling required and does not vent to outside.
D16	Physics Prototyping Development Lab	G118		6" tool grinder	Table	Harbor Freight Tools	Model 46727	28	28	48		115V, 60Hz, 6.3A single phase							O.F.O.I.	
D17	Physics Prototyping Development Lab	G118		Belt/disc sander	Benchtop	Delta	Model SA180	16	24	24		120V, 8A, single phase							O.F.O.I.	

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△	MP1	Modern Physics	G120		Electromagnet	Floor	Varian	V2901	26	36	48		208V 20A 3 phase							O.F.O.I.	Max temp. at 72F with dehumidification
	MP2	Modern Physics	G1207		Chiller for Electromagnet	Floor	Thermo Scientific NESLAB	Merlin M75 PD1	16.5	24	26		200-230V, 60 Hz, 9 amps		DI					O.F.O.I.	*FUTURE*
△	W1	Physics Prototyping Development Lab	G118		Welding system	Floor	Miller	Millermatic 251	24	48	72 (w/ tanks)		240V, 42A						Argon, Argon-CO2, Helium, Argon-Helium-CO2	O.F.O.I.	gas cylinder on cart
	W3	Welding/Grinding	G106		6" abrasive belt finishing machine	Floor	Delta	31-520	24	36	60		120V, 13A, single phase							O.F.O.I.	Owner to store out of building
	W5	Welding/Grinding	G106		14" abrasive cut-off machine	Table	Milwaukee	6180-20	18	24	48		120V, 13A, single phase							O.F.O.I.	Owner to store out of building
	W6	Physics Prototyping Development Lab	G118		Down draft table for welding/sanding/painting	Floor	MicroAir Extreme Air	XA34	55	36	32		3 Hp, 3 Phase 208/230/460V 60Hz							O.F.C.I.	Provide HEPA filter & magnehelic gauge
	W7	Welding/Grinding	G106		Pedestal Grinder	Floor	Rockwell	23-136	36	18	50		120V, 13A, single phase							O.F.O.I.	Bolted to slab; Owner to store out of building
	W9	Welding/Grinding	G106		Steel bench with vices	Floor			60	48	30									O.F.O.I.	Owner to store out of building
	OR1	Optics Research Lab	G113		Optical Table	Floor	ThorLabs	PTQ12109	49.25	96	36									O.F.O.I.	Max temp. at 72F with dehumidification
	OR2	Optics Research Lab	G113		Optical Table	Floor	ThorLabs	PTM12104	39	72	36									O.F.O.I.	Max temp. at 72F with dehumidification
	OR3	Optics Research Lab	G113		Optical Table	Floor	ThorLabs w/ legs	PBH11117 and 2ø PFR90150-8	72	72	2									O.F.O.I.	Future. Using existing optical beadboard
	OR4	Optics Research Lab	G113		Optics equipment rack	Floor														O.F.O.I.	
OR5	Optics Research Lab	G113		Optics equipment rack	Floor														O.F.O.I.		
OR6	Optics Research Lab	G113		Optics equipment rack	Floor														O.F.O.I.		
OR7	Optics Research Lab	G113		Lock-in Amplifier	Table	SRS	SR510	17	17	3.5		35W, 120-240V							O.F.O.I.	Future.	
OR8	Optics Research Lab	G113		Optical Chopper System	Table	ThorLabs	MC2000	5.8	12.5	2.8		60W, 120-240V							O.F.O.I.	Future.	
OR9	Optics Research Lab	G113		Dual Channel power & Energy Console	Table	ThorLabs	PM320E	10	15	5		120V, 1.8A, 50/60Hz							O.F.O.I.	Future.	
OR10	Optics Research Lab	G113		Optics equipment #4	Overhead carrier														O.F.O.I.		
OR11	Optics Research Lab	G113		Optics equipment #5	Overhead carrier														O.F.O.I.		
OR12	Optics Research Lab	G113		Optics equipment #6	Overhead carrier														O.F.O.I.		
OR13	Optics Research Lab	G113		CO2 Laser	Table	Access Laser	Model L4												O.F.O.I.		
OR14	Optics Research Lab	G113		CO2 Laser	Table	Access Laser	Model L5												O.F.O.I.		
OR15	Optics Research Lab	G113		Recirculating chiller	Beneath table														O.F.O.I.		
OR16	Optics Research Lab	G113		Recirculating chiller	Beneath table														O.F.O.I.		
P11	Imaging Research Lab	G114		Oscilloscope	Table	HP/Agilent	DSO1014A	12.78	5.08	6.21		60W, 120-240V							O.F.O.I.	Future. Max temp. at 72F with dehumidification	
P12	Imaging Research Lab	G114		Function Generator	Table	HP/Agilent	33210A	10	15	5		50W, 120-240V							O.F.O.I.	Future. Max temp. at 72F with dehumidification	
P137	Imaging Research Lab	G114		Imaging equipment #3	Table														O.F.O.I.		
P147	Imaging Research Lab	G114		Imaging equipment #4	Overhead carrier														O.F.O.I.		
P157	Imaging Research Lab	G114		Imaging equipment #5	Overhead carrier														O.F.O.I.		
P167	Imaging Research Lab	G114		Imaging equipment #6	Overhead carrier														O.F.O.I.		
MX1	MRI / X-ray Lab	G114A		MRI/NMR System	Benchtop	TEL-Atomic Inc.	P5-15	36	36	36		115V, 60Hz, 1.5A							O.F.O.I.	Connected to computer. Max temp. at 72F with dehumidification	
MX2	MRI / X-ray Lab	G114A		CW NMR/ESR	Benchtop	TEL-Atomic Inc.	CWS 12-50	24	9	6.5		110/220V, 50/60Hz, 40W							O.F.O.I.	Max temp. at 72F with dehumidification	
MX3	MRI / X-ray Lab	G114A		Spectrometer	Benchtop	TEL-Atomic Inc.	UCS30					100-250VAC, 50/60Hz							O.F.O.I.		
MX4	MRI / X-ray Lab	G114A		Scintillation probe w/ stand	Benchtop	TEL-Atomic Inc.	5P38					100-250VAC, 50/60Hz							O.F.O.I.		
MX5	MRI / X-ray Lab	G114A		X-Ray	Table	38 Scientific/TEL-Atomic	TEL-X-Ometer U192001	36	36	36		110-220V, 1.0A							O.F.O.I.	Connected to computer	
MX6	MRI / X-ray Lab	G114A		X-Ray	Table	38 Scientific/TEL-Atomic	TEL-X-Ometer U192001	36	36	36		110-220V, 1.0A							O.F.O.I.	Connected to computer	
NL1	Material Science / Nano Lab	G106		Auto Sputter Coater	Benchtop	Ted Pella	108 Auto Sputter Coater	16.5"	23.6"			100-120 or 200-240VAC, 50/60Hz(specify on order), 500VA					Air	Nit. & Argon, O2	O.F.O.I.	Future -Conn to comp -Argon purity, min. 99.99%	
NL2	Material Science / Nano Lab	G106		SEM Microscope	Benchtop	Keysight	85008 FE-SEM Microscope: Pump Unit:	22.9" 8"	26.4" 10"	18.5" 8"	192 8.8	100/120/220-240V; 5/60Hz and for outlet for PC and displays							O.F.O.I.	Future Equipment Connected to computer	
NL3	Material Science / Nano Lab	G106		Horizontal Split 3 Zone Tube Furnace	Benchtop	Carbolite	HZS 12/900 External Furnace: Control Module:	13.8" 8.8"	41.3" 22.4"	16.1" 14.96"	143.3	4500W Max. power 1400W Holding Power, 208V, 1 Phase					Air	Nit. & Argon, O2, CO2	O.F.O.I.	Future Equipment	
NL4	Material Science / Nano Lab	G106		X-Ray Diffraction (XRD) Instrument	Benchtop	Rigaku	MinFlex, Model #600					100 to 240VAC, 50/60Hz +/- 1% - 1.0 kVA							O.F.O.I.	No Heat Exchanger Option	
NL5	Material Science / Nano Lab	G106		Optical Table	G108			72"	36"											O.F.O.I.	
Y1	Mechanical Room	G1		Compressor	Floor	Eaton Compressor	WTL18-215-010	36	36	84		208V 26A 3 phase								O.F.C.I.	150psi capacity
	LEGEND																				
	O.F.O.I. Owner Furnished, Owner Installed																				
	O.F.C.I. Owner Furnished, Contractor Installed																				
	C.F.C.I. Contractor Furnished, Contractor Installed																				
	NOTES																				