

Program Summary	Program NSF	Total NSF	% Total NSF	Remarks
Laboratories, Lab Support & Offices				
Bench Lab Space		39,360	46%	
Mouse Genetics/Molecular Biology Labs	2,880	7%		
Neuroscience bench Labs	4,320	11%		
Material & Physical Sciences Labs	24,960	63%		
Temp Onyx Bridge Lab Space	7,200	18%		
Shared Laboratory Support Space	1,488	1,488	2%	
Total Bench Lab, Lab Support & Shared Lab Support		40,848		
Dry Laboratory Space		13,988	16%	
Cognitive Neuroscience Lab Space	12,452	89%		
Computational & Informational Sciences	1,536	11%		
Total Laboratory Space		54,836	63%	
Research Office & Conference Space		15,741	18%	
Research Faculty Offices	6,075	39%		
Post-Doc /Grad Student Office Space	5,850	37%		
Departmental Conference Rooms	2,112	13%		
Faculty Work/Interaction Areas	1,364	9%		
Kitchenette	340	2%		
Total Laboratories, Lab Support & Office Space		70,577	82%	
Core Facilities				
Vivarium		7,433	9%	
Animal Holding & Procedure Space	3,666	49%		
Scientific Space	807	11%		
Washing & Facility Support Space	2,384	32%		
Staff Support Space	576	8%		
Advanced Imaging Center		3,540	4%	
MRI Space	747	21%		
Facility Support Space	661	19%		
Staff/Administrative Space	2,132	60%		
Total Core Facilities		10,973	13%	
Building Amenity Space		2,856	3%	
Building Support Facilities		1,950	2%	
Total Net/Assignable Area		86,356	100%	
Estimated Building Efficiency		55%		
Approximate Gross Building Area		157,011		

Space Analysis - Space Per Faculty Type								
Department	Category	# Faculty	Total Lab Space	Lab Space per Faculty	Total Office Space	Office Space per Faculty	Total Space	Total Space per Faculty
BBMI	Mouse Genetics & Neuroscience	5	7200	1440	675	135	7875	1575
BBMI	Cog Neuro	9	12452	1384	4815	535	17267	1919
Mat Phy Science	Mat Phy Sci	15	24960	1664	4410	294	29370	1958
Temp Onyx Labs	Onyx Labs	5	7200	1440	675	135	7875	1575
Shared Suppt	Mouse Gen., Neuro, Onyx	10	1488	149			1488	149
Totals		34	51812		10575		63875	1879

Office space DNI share of Visiting Faculty or conference space

Space #	Space Description	Qty.	Net Space Dimensions	Space NSF	NSF Total	Remarks
Laboratories, Lab Support & Offices						
Bench & Instrument Laboratory Space						
Mouse Genetics/MoBio Lab Modules					2,880	
	Bench Labs	6	10' - 8" x 28' - 6"	304	1,824	(2) 3-module labs or (1) 6-module lab
	Lab Support Space			704	1,056	
	Entry/Equipment Alcove I	1	10' - 8" x 16' - 6"	176	176	
	Fume Hood Alcove	1	10' - 8" x 16' - 6"	176	176	
	Gel Electrophoresis	1	10' - 8" x 16' - 6"	176	176	
	Controlled Environment Rooms	1	10' - 8" x 16' - 6"	176	176	
	Cell/Tissue Culture	2	10' - 8" x 16' - 6"	176	352	(1) more below in Shared Support
Neuroscience Bench Labs					4,320	
	Audiology Bench Lab Modules	4	10' - 8" x 28' - 6"	304	1,216	(2) 2-module labs
	Neuro/MoBio Lab Modules	3	10' - 8" x 28' - 6"	304	912	(1) 3-module lab
	Lab Support Space				2,192	
	Entry/Equipment Alcove	2	10' - 8" x 16' - 6"	176	352	
	Rig Room 1	4	10' - 8" x 14' - 3"	152	608	
	Rig Room 2	1	10' - 8" x 16' - 6"	176	176	
	Rig Room 3	1	21' - 4" x 16' - 6"	352	352	
	Computer Room	1	10' - 8" x 16' - 6"	176	176	
	Shared Electronics Shop	1	10' - 8" x 16' - 6"	176	176	
	Shared Machine Shop	1	10' - 8" x 16' - 6"	176	176	
	Fume Hood Alcove	1	10' - 8" x 16' - 6"	176	176	
Material & Physical Sciences Bench Labs					14,400	
	High-Density Hood Lab Modules	21	10' - 8" x 28' - 6"	304	6,384	# of modules in labs flexible; (2) 8' CFH per module
	High-Density Lab Support Space			528	3,344	
	Entry/Equipment Alcove I	4	10' - 8" x 16' - 6"	176	704	
	Small Instrument Lab	3	10' - 8" x 16' - 6"	176	528	Includes Eq Group 7 equipment
	PD/GS Office	12	10' - 8" x 16' - 6"	176	2,112	Space for approx. 60 GS
	Medium-Density Hood Lab Modules	9	10' - 8" x 28' - 6"	304	2,736	# of modules in labs flexible; (1) 8' CFH per module
	Medium-Density Lab Support Space			528	1,936	
	Entry/Equipment Alcove I	2	10' - 8" x 16' - 6"	176	352	
	Small Instrument Lab	2	10' - 8" x 16' - 6"	176	352	Includes Eq Group 7 equipment
	PD/GS Office	7	10' - 8" x 16' - 6"	176	1,232	Space for approx. 35 GS
Material & Physical Sciences Instrument Labs					10,560	
	Instrument Characterization Suite #1	1	42' - 8" x 45' - 0"	1,920	1,920	Group 1 Equipment; See MatPhySci Eq Info tab for instrument groups; basement location requested
	Instrument Characterization Suite #2	1	53' - 4" x 45' - 0"	2,400	2,400	Group 1 Equipment; See MatPhySci Eq Info tab for instrument groups; basement location requested
	Instrument Characterization Suite #3	1	42' - 8" x 45' - 0"	1,920	1,920	Group 1 Equipment; See MatPhySci Eq Info tab for instrument groups; basement location requested
	Glove Box Facility	1	32' - 0" x 45' - 0"	1,440	1,440	Group 4 Equipment; Could be (2) labs if desired; basement location requested
	Deposition/Processing Equipment Suite	1	42' - 8" x 45' - 0"	1,920	1,920	Group 5 Equipment; See MatPhySci Eq Info tab for instrument groups; basement location requested
	Rooftop Lab Equipment Process Lab	1	21' - 4" x 45' - 0"	960	960	Eq Group 6; Rooftop platform not included
Temp Onyx Bridge Lab Space					7,200	
	Bench Labs	5	32' - 0" x 28' - 6"	912	4,560	(5) 3-module labs or could be combined for larger labs
	Lab Support Space			704	2,640	
	Entry/Equipment Alcove I	5	10' - 8" x 16' - 6"	176	880	
	Fume Hood Alcove	5	10' - 8" x 16' - 6"	176	880	
	Flex Lab	3	10' - 8" x 16' - 6"	176	528	
	Equipment Room I	2	10' - 8" x 16' - 6"	176	352	
Subtotal Bench & Instrument Laboratory & Support Space					39,360	

Space #	Space Description	Qty.	Net Space Dimensions	Space NSF	NSF Total	Remarks
Shared Laboratory Support Space						
Shared Laboratory Support Space					1488	
	Controlled Environment Rooms	2	10' - 8" x 16' - 6"	176	352	
	Shared Freezer/Equipment Rooms	1	21' - 4" x 28' - 6"	608	608	
	Microscopy Labs	2	10' - 8" x 16' - 6"	176	352	Confocals, etc.
	Copy/Printer/Fax	1	10' - 8" x 16' - 6"	176	176	
Subtotal Shared Laboratory Support Space					1,488	
Total Bench Lab, Lab Support & Shared Lab Support					40,848	
Dry Lab Space						
Cognitive Neuroscience Lab Space					12,452	
Cognitive Neuroscience Lab Cluster #1					3,972	
	Cog Neuro Data Analysis Lab	3	16' - 0" x 28' - 6"	456	1368	
	Vogel ERP Room	1	16' - 0" x 28' - 6"	456	456	
	Behavioral Testing - Eye Tracker	1	10' - 8" x 18' - 9"	200	200	
	Control Room #1	2	10' - 8" x 18' - 9"	200	400	
	Shared ERP	1	10' - 8" x 18' - 9"	200	200	
	Small Run Rooms	16	5' - 4" x 8' - 0"	43	688	
	Internal Circulation	1	6' - 0" x 110' - 0"	660	660	
Cognitive Neuroscience Lab Cluster #2					3,994	
	Cog Neuro Data Analysis Lab	3	16' - 0" x 28' - 6"	456	1368	
	Small Run Rooms	8	5' - 4" x 8' - 0"	43	344	
	Control Room #1	1	10' - 8" x 18' - 9"	200	200	
	Control Room #2	1	10' - 8" x 18' - 9"	200	200	
	Large Run Room	1	7' - 8" x 10' - 8"	82	82	
	Shared Behavioral Testing (Eye Tracking)	1	10' - 8" x 18' - 10"	201	201	
	Shared Behavioral Testing (TMS)	1	10' - 8" x 18' - 10"	201	201	
	Behavioral Testing (TMS)	1	10' - 8" x 18' - 9"	200	200	
	Behavioral Testing (Kinematics)	1	10' - 8" x 9' - 9"	104	104	
	Behavioral Testing Type 1	1	9' - 8" x 21' - 4"	206	206	
	Projection Run Room #1	1	8' - 0" x 16' - 0"	128	128	
	Projection Run Room #2	1	5' - 4" x 18' - 10"	100	100	
	Internal Circulation	1	6' - 0" x 110' - 0"	660	660	
Cognitive Neuroscience Lab Cluster #3					3,328	
	Cog Neuro Data Analysis Lab	3	16' - 0" x 28' - 6"	456	1368	
	Behavior Testing Type 3	5	10' - 8" x 13' - 0"	139	695	
	Child Care Reception	1	10' - 8" x 18' - 9"	200	200	
	ERPS (Kids)	1	10' - 8" x 21' - 4"	228	228	
	ERPS	1	10' - 8" x 18' - 9"	200	200	
	Neville Admin Space	1	8' - 0" x 10' - 8"	85	85	
	Internal Circulation	1	6' - 0" x 92' - 0"	552	552	
Cognitive Neuroscience Shared Space					1158	Note: (2) requested Conference Rooms in Departmental Conference Room count below
	Tech Support Offices	2	10' - 8" x 10' - 8"	114	228	
	Waiting Area	1	16' - 0" x 13' - 0"	208	208	
	Workstations	1	10' - 8" x 28' - 10"	308	308	
	Shared Admin Space	1	10' - 8" x 20' - 10"	222	222	
	Shop	1	10' - 8" x 18' - 0"	192	192	
Computational & Informational Sciences					1,536	
	Cyberlab	1	16' - 0" x 28' - 6"	456	456	
	NIC Offices	5	10' - 8" x 12' - 8"	135	675	
	Bioinformatics					
	Networking Room	1	10' - 8" x 12' - 8"	135	135	
	Offices	2	10' - 8" x 12' - 8"	135	270	
Total Dry Lab Space					13,988	

Space #	Space Description	Qty.	Net Space Dimensions	Space NSF	NSF Total	Remarks
Total Bench Lab & Dry Lab Space					54,836	
Research Office & Conference Space						
Research Faculty Offices		45			6075	
	Cognitive Neuroscience Faculty Offices	9	10' - 8" x 12' - 8"	135	1215	
	Mouse Genetics Faculty Offices	2	10' - 8" x 12' - 8"	135	270	
	Neuroscience Bench Lab Faculty Offices	3	10' - 8" x 12' - 8"	135	405	
	Material & Physical Sciences Faculty Offices	16	10' - 8" x 12' - 8"	135	2160	(15) Faculty; (1) SunRISE Director; share of Visiting Faculty below
	Onyx Bridge Temp Lab Faculty Offices	5	10' - 8" x 12' - 8"	135	675	
	Visiting Faculty Offices	10	10' - 8" x 12' - 8"	135	1350	
Post-Doc/Grad Student Office Space					5850	
	Cog Neuro PD/GS Office Space	72	6' - 3" x 8' - 0"	50	3600	
	Mouse Genetics/Neuro PD/GS Office Space	60	6' - 3" x 8' - 0"	50		Desks in Labs; no additional space requested
	Mat Phy Sci PD/GS Office Space	45	6' - 3" x 8' - 0"	50	2250	(140) requested; (95) in Lab Support zone; (45) in other space
Departmental Conference Rooms					2112	
	Sm Conference Rooms	8	10' - 8" x 18' - 0"	192	1536	
	Lg Conference Rooms	2	16' - 0" x 18' - 0"	288	576	
Faculty Work/Interaction Areas		4	16' - 0" x 21' - 4"	341	1364	
Kitchenette		4	10' - 8" x 8' - 0"	85	340	
Total Scientific Office & Conference Space					15,741	
Total Research Laboratories and Laboratory Offices					70,577	

Space #	Space Description	Qty.	Net Space Dimensions	Space NSF	NSF Total	Remarks
Core Laboratories						
Vivarium						
Animal Holding & Procedure Space					3,666	Approx. 5500 total mouse cages
	Holding Room Type I	4	11' - 0" x 21' - 6"	237	948	(3) Racks/room; 420 cages/room; 1680 cages
	Holding Room Type II	4	16' - 0" x 21' - 6"	344	1,376	(6) racks/room; 840 cages/room; 3360 cages; includes mouse cancer screening - need to define requirements
	Behavioral Testing Rooms	2	11' - 0" x 21' - 6"	237	474	
	Mouse Procedure Room	4	11' - 0" x 10' - 8"	117	468	
	Quarantine	1	16' - 0" x 21' - 0"	336	336	(6) racks in cubicles; 420-840 cages
	Quarantine Shower	1	8' - 0" x 8' - 0"	64	64	
Scientific Space					807	
Surgery Suite					570	
	Pre-Op	1	10' - 8" x 10' - 8"	114	114	
	Surgery	2	10' - 8" x 16' - 0"	171	342	
	Post-Op	1	10' - 8" x 10' - 8"	114	114	
Mouse Behavioral Core					0	Assumed to remain in existing facility
	Prep Lab	0	11' - 0" x 21' - 6"	237	0	
	Testing Rooms	0	11' - 0" x 10' - 9"	118	0	
Mouse Electrophysiology Suite					0	Assumed to remain in existing facility
	Prep Lab	0	11' - 0" x 21' - 6"	237	0	
	Testing Rooms	0	11' - 0" x 10' - 9"	118	0	
	Necropsy Room	1	11' - 0" x 21' - 6"	237	237	Assumed to remain in existing facility
Washing & Facility Support Space					2,384	
	Dirty Cagewash	1	20' - 0" x 21' - 6"	430	430	
	Dirty Cagewash Shower	1	8' - 0" x 8' - 0"	64	64	Include toilet
	Clean Cagewash	1	20' - 0" x 21' - 6"	430	430	
	Equipment Space	1	20' - 0" x 21' - 6"	430	430	
	Clean Cage Storage	1	20' - 0" x 21' - 6"	430	430	
	Laundry	1	10' - 0" x 8' - 0"	80	80	
	Janitorial	3	4' - 0" x 6' - 0"	24	72	
	Airlocks	2	8' - 0" x 12' - 0"	96	192	
	Receiving/Decon	1	8' - 0" x 12' - 0"	96	96	
	Cage Change	1	8' - 0" x 10' - 0"	80	80	Pass-thru BSC
	Carcass Storage	1	8' - 0" x 10' - 0"	80	80	
Staff Support Space					576	
	Office	1	10' - 8" x 12' - 0"	128	128	
	Break Room	1	12' - 0" x 16' - 0"	192	192	
	Toilet/Shower	2	8' - 0" x 10' - 0"	80	160	
	Gowning	1	16' - 0" x 6' - 0"	96	96	
Subtotal Vivarium Space					7,433	
Advanced Imaging Center						
MRI Space					747	
	MRI Bay 1	1	18' - 0" x 24' - 0"	432	432	
	MRI Bay 2	0	18' - 0" x 24' - 0"	432	0	possible future expansion
	Simulator	1	10' - 8" x 16' - 0"	171	171	
	Control Room	1	8' - 0" x 18' - 0"	144	144	
	Equipment Room	1	8' - 0" x 18' - 0"	144	144	
Facility Support Space					661	
	Animal Prep Space	1	10' - 8" x 16' - 0"	171	171	
	Human Prep Space	1	10' - 8" x 12' - 0"	128	128	
	Toilets	2	8' - 0" x 10' - 8"	85	170	include locker & dressing area w/shower if possible
	Electronics	1	10' - 8" x 18' - 0"	192	192	

Space #	Space Description	Qty.	Net Space Dimensions	Space NSF	NSF Total	Remarks
	Staff/Administrative Space				2,132	
	Director's Office	1	12' - 0" x 16' - 0"	192	192	
	Staff Offices	5	12' - 0" x 12' - 0"	144	720	
	Conference Room	1	14' - 0" x 18' - 0"	252	252	
	Data Analysis	1	21' - 4" x 24' - 0"	512	512	
	Reception/Waiting	1	12' - 0" x 16' - 0"	192	192	space for 4-6 people & receptionist
	Storage	1	12' - 0" x 14' - 0"	168	168	general storage nearer magnets
	Kitchenette/Break Room	1	8' - 0" x 12' - 0"	96	96	
	Subtotal Advanced Imaging Center				3,540	
	Total Core Facilities				10,973	

Space #	Space Description	Qty.	Net Space Dimensions	Space NSF	NSF Total	Remarks
Building Amenity Space						
	Public Commons	1	40' - 0" x 60' - 0"	2,400	2,400	
	Collaboration Spaces	4	10' - 8" x 10' - 8"	114	456	
	Café	0	0' - 0" x 0' - 0"	0	0	
	Food Prep	0	0' - 0" x 0' - 0"	0	0	
Total Building Amenity Space					2,856	

Space #	Space Description	Qty.	Net Space Dimensions	Space NSF	NSF Total	Remarks
Building Support Facilities						
	Receiving/Dock Area	1	16' - 0" x 20' - 0"	320	320	Need clarification on requirements
	Housekeeping Stor	1	10' - 8" x 10' - 8"	114	114	
	Maintenance Stor	1	10' - 8" x 10' - 8"	114	114	
	Recycling	1	10' - 8" x 10' - 8"	114	114	
	Shower Rooms	2	8' - 0" x 10' - 8"	85	170	
	Chemical Library	2	10' - 8" x 10' - 8"	114	228	Unused chemical storage for Researchers
	EH&S Closet	1	10' - 8" x 10' - 8"	114	114	Need clarification on requirements
	Cylinder Stor	1	10' - 8" x 21' - 4"	228	228	
	CO2 Dispensing	1	10' - 8" x 10' - 8"	114	114	
	LN2/LHe Dispensing	1	10' - 8" x 10' - 8"	114	114	
	Nursing Rooms	5	8' - 0" x 8' - 0"	64	320	Adjacent to Women's Toilets
Total Building Support Facilities					1,950	

Material Physical Sciences Equipment List

Equip Group	Major Equipment		ft^2 requested	ft^2 included	# modules	Requested location
1	ONAMI Sr	TBD	300			
1	ONAMI Jr.	TBD	200			
1	Taylor	Low temperature physics facility	450			
1	Johnson	Magnetic Susceptability/Hall Effect	300			
1	Johnson	SQUID	150			
1	Lonergan	Electrical and Electrochem.Meas.Stations (3)	250			
1	Hutchison	Electrical and Electrochem.Meas.Station (2)	250			
Subtotal			1900	1920	4	Basement
2	Lonergan	Spectral Response System (optical table)	300			
2	Deutsch	Optical Characterization (optical table)	300			
2	Parthasarathy	Custom Microscopy Instrument (optical table)	300			
2	Cohen	DLTS System (laser table)	300			
2	Johnson	X-ray diffraction Facility	2000			
2	To be acquired	Characterization-- Optical (2 optical table)	600			
2	To be acquired	Characterizaiton-- Small Inst.	450			
2	To be acquired	Characterization-- Large Inst.(2)	450			
2	To be acquired	Deposition-- Large Inst.(2)	450			
Subtotal			5150	2400	5	Basement
3	deRose	EPR	450			
3	NMR Facility	2-300,1-500,OffLine Processing	1000			
3		600 MHz NMR	750			
Subtotal			2200	1920	4	Anywhere
4	Various	13 Double-wide glove boxes	1500			
Subtotal			1500	1440	3	Basement
5	ONAMI Sr	TBD	450			
5	ONAMI Jr	TBD	250			
5	Lonergan	Thermal Evaporator	150			
5	Lonergan	Thermal Evaporator	150			
5	Lonergan	Laminar Flow Hood/Deposition	150			
5	Johnson	MER Deposition Chamber	150			
5	Johnson	MER Deposition Chamber	150			
5	Johnson	Sputter Chamber	150			
5	Johnson	ALD	250			
5	Johnson	Rapid Thermal Annealer	250			
5	Ozonolysis	Ozonolysis				
Subtotal			2100	1920	4	Basement
6	Onyx	Office/work room	1000			
6	Pacific Roof	Roof Testing Facility	1000	0		Platform on roof for instruments; lab included inside building
Subtotal			2000	960	2	Top floor/Roof
7	Tyler	Polymer Characterization-Instron,stretching	250			Can be near bench labs
7	Lonergan	Polymer Characterization-GPC (2)	250			Can be near bench labs
7	Various	Thermal Analysis TGA/DTA/DSC,MDSC	150			Can be near bench labs
7	Various	Molecular Characterization:UV/vis,IR,2 LC-MS,fluorimeter	300			Can be near bench labs
Subtotal			950	0	0	Can be near bench labs
Total			15800	10560	22	