

LABORATORY RENOVATION QUESTIONNAIRE



Identify all needs in the following areas relative to your current and anticipated research program activities. Please provide specific information where possible.

ITEM	IMPLICATIONS	RESPONSE
ELECTRICAL POWER		
Do you have any special voltage requirements other than 120v/208v? Is an Isolation Transformer or other power conditioning required? Is Emergency Power required? Is Uninterruptible Power required? Are there any special EMF/RFI shielding requirements?	Where available, capacity is limited. UPS system will be local to the lab/specific equipment. May require special enclosure	
HOODS		
How many Chemical Fume Hoods are required and what size? Any specialized hoods (i.e. radioactive, perchloric, etc.)? How many Biological Safety Cabinets are required and what size/class? Will Snorkel, or Point of Use exhaust be required, and if so, how many?	Requires exhaust, building may not have capacity	
HEAT PRODUCING EQUIPMENT		
How many Furnaces/Ovens will be used in the lab? What are the BTU/h ratings? How many vacuum pumps will be needed? How many "air-cooled" chillers are required in the lab? How many "water-cooled" chillers are required in the lab? Any Autoclaves or other sterilizers? Any Equipment that requires exhaust?	Requires exhaust and large amounts of supply air Requires closed-loop cooling system	
PLUMBING		
Do you require steam? Do you require R.O. water? If so, what flow rate? What degree of R.O. water purity do you require? Do you require De-ionized (DI)water? Are floor drains required? Any "oversized" lab sinks required? Is cooling water required? Are piped gases required? Natural Gas, CO2, N2, Vacuum, Compressed Air, etc.		
VIBRATION		
Special vibration isolation requirements		
LIGHT CONTROL		
Is complete darkness required?	May be difficult to achieve if windows in space	
TEMPERATURE/HUMIDITY CONTROL		
If humidity is a concern, what are the tolerances? If temperature is a concern what range is acceptable (degrees F)	May require special controls	
CLEAN ROOM		
If required, what class? Is a separate "clean" enclosure appropriate?	Triggers infrastructure needs	
HAZARDOUS MATERIALS		
What gasses are anticipated? Will any high-purity gases be used? What types? What chemicals do you typically use and in what quantities? Do you use any radioactive materials?	Please provide a separate list of types and quantities	
BIOLOGICAL CONSIDERATIONS		
Do you use any live viruses? What kinds? Will you be working with live subjects? If so, what type(s)? Animals Insects Invertebrates Amphibians Coral or other aquatic research Plants Humans (blood draw, etc.) Do you have a specific "Biosafety Level" (BSL) requirement?		
ANY OTHER ISSUES THAT MIGHT TRIGGER INFRASTRUCTURE NEEDS?		
ANY OTHER VERY UNIQUE SPACE REQUIREMENTS?		
Procedure rooms Microscopy Tissue Culture		
ANY OTHER VERY UNIQUE EQUIPMENT REQUIREMENTS?		
<i>Feel free to include "cut-sheets" or catalog sheets of specific equipment, particularly specialized equipment.</i>		