

Lab Design or Renovation Plans Interview/ Review

This form is used to notify departments that assist with the lab design or renovation of certain aspects of your research to ensure that proper equipment and facilities are included in the design of your lab. Please complete the information as thoroughly as possible and return to Zack Steuerwald (steuerzw@uwm.edu) or Jennifer Herriges (herrigej@uwm.edu).

*denotes a required question. Please answer before submitting.

1. Building and Room: _____
Researcher Name: _____
Contact Info: _____
Project Scope Summary: Project Scope/Summary* _____

2. Facility Information

- Does the building have fire sprinklers?* Yes No
- Will the lab have a flammable liquid storage cabinet?* Yes No
- Will the lab have a biosafety cabinet?* Yes No
Type of biosafety cabinet that will be in the lab:
Type A (recirculating) Type B (ducted)
- Will any utility be needed in the biosafety cabinet other than gas, vacuum or air? Yes No
If yes, please list: _____
- Will the lab have a glove box? Yes No
If yes, will it need to be vented to exhaust? Yes No
- Will the lab have a fume hood?* Yes No
 ASHRAE test required
- Will the lab have a Snorkel Yes No
- Will the lab have a Slot hood w/ sides Yes No
- Will the lab have a Canopy Yes No
- Will the lab have a Downdraft table Yes No
- Will any heat be needed in the fume hood? Yes No
If yes, please list: _____

3. Controls required for hazards

- Corrosive storage
- Gas cabinet (toxic gases)
- Non-combustible construction

- Does the lab currently have a piped-in (i.e., running water) eyewash station?* Yes No
Within 10 seconds (corrosives present) Yes No
- Is there an eyewash station nearby in the hall? Yes No
- Does the lab currently have a safety shower?* Yes No
- Is there a safety shower nearby in the hall? Yes No
- Does the lab currently have a fire extinguisher?* Yes No
If yes, what Type ABC
 CO₂
 Class D- Metal

Will the lab use any paints or spray booths?* Yes No
 Will the lab have any freezers?* Yes No
 Type of freezers that will be in the lab: -20 C -80 C
 Will these freezers store flammable materials? Yes No
 Will the lab have any refrigerators for storing flammable materials?* Yes No
 Will any utility be needed in the fume hood other than gas, vacuum or air? Yes No

4. Biological Materials:

Please check if any of the following will be used:

Agent Type	BSL-1(Low)	BSL-2(Medium)	BSL-3(High)
Animal Pathogen	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Human Pathogen	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Plant Pathogen	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Non-infectious	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

Will there be any use of biological materials in the lab?* Yes No
 Will there be any use of **animals** in the lab?* Yes No
 Dander/ Allergens Yes No
 Waste Anesthetic Gasses Yes No

5. Radiological Hazards:

Will there be any use of radiological hazards in the lab?* Yes No

Please check if any of the following will be used:

Irradiator Yes No
 Sealed Source Yes No
 Radioactive Material / Waste Yes No
 X-Ray Yes No
 Laser Yes No
 Laser Class I II IIIA IIIB IV

Laser Controls

Restrict access Yes No
 Barriers around laser Yes No
 Lighted Entry way sign Yes No
 Windows blocked Yes No
 Panic Button Yes No
 Dull/ non-shiny finish Yes No

Other: _____

6. Chemical Hazards:

Will there be any use of chemical hazards in the lab?* Yes No
 Hazardous Waste

Please check the boxes next to the following chemicals that will be used or stored in the lab. List maximum quantities expected for each type of chemical.

<input type="checkbox"/> Compressed Gases (Class 2)	Maximum Quantity	Cylinder(s)	Lecture Bottle(s)
<input type="checkbox"/> Flammable (i.e., acetylene, butylene, ethane, ethylene, hydrogen, methane, propane, silane) <input type="checkbox"/> Separated from oxygen by 20 feet <input type="checkbox"/> Sensors for gas releases <input type="checkbox"/> Explosion-proof utilities (Class I)	_____	<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/> Non-Flammable (i.e., argon, carbon dioxide, helium, krypton, neon, nitrogen, xenon)	_____	<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/> Poisonous / Toxic (i.e., boron trichloride, carbon monoxide, chlorine, chlorine trifluoride, hydrogen fluoride, hydrogen sulfide, phosgene, silane, silicon tetrafluoride) <input type="checkbox"/> Gas cabinet (toxic gases)	_____	<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/> Particularly Hazardous / Highly Toxic (i.e., arsine, chlorine, cyanogen, diborane, fluorine, diazomethane, germane, hydrogen cyanide, hydrogen fluoride, nitric oxide, nitrogen dioxide, ozone, phosphine, hydrogen selenide, ozone, phosgene, stibine) <input type="checkbox"/> Gas cabinet (toxic gases)	_____	<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/> Oxidizing (i.e., chlorine, fluorine, oxygen)	_____	<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/> Corrosive (i.e., ammonia, hydrogen chloride, sulfur dioxide)	_____	<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/> Flammable & Combustible Liquids (Class 3)	Maximum Quantity	mL	L
<input type="checkbox"/> Class IA Flammable: Flash point below 73 F (23 C) and boiling point at or below 100 F (38 C) (i.e., diethyl ether, dimethyl ether)	_____	<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/> Class IB Flammable: Flash point below 73 F (23 C) and boiling point at or above 100 F (38 C) (i.e., acetone, ethanol, gasoline, methanol, toluene)	_____	<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/> Class IC Flammable: Flash point at or above 73 F (23 C) and below 100 F (38 C) (i.e., isopropanol, turpentine, xylene)	_____	<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/> Class II Combustible: Flash point at or above 100 F (38 C) and below 140 F (60 C) (i.e., diesel, jet fuel)	_____	<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/> Class IIIA Combustible: Flash point at or above 140 F (60 C) and below 200 F (93 C) (i.e., glacial acetic acid, kerosene)	_____	<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/> Class IIIB Combustible: Flash point at or above 200 F (93 C) (i.e., biodiesel, phenol, vegetable oil)	_____	<input type="checkbox"/>	<input type="checkbox"/>

<input type="checkbox"/> Reactives (Class 4)	Maximum Quantity	µg	mg	g
<input type="checkbox"/> Flammable Solids (i.e., activated carbon, camphor, matches, naphthalene, paraformaldehyde, sulfur)	_____	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/> Water Reactive / Dangerous When Wet: (i.e. aluminum alkyls, calcium carbide, lithium, metal hydrides, sodium, sodium borohydride, zinc (metal, dust, powder, etc.))	_____	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/> Spontaneously Combustible Materials (i.e., phosphorus, potassium sulfide (anhydrous), potassium t-butoxide, sodium sulfide (anhydrous), sodium t-butoxide, t-butyl-lithium)	_____	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

<input type="checkbox"/> Oxidizing Substances & Organic Peroxides (Class 5)	Maximum Quantity	Unit
<input type="checkbox"/> Oxidizers (i.e., chlorates, chromium trioxide, nitrates, nitrites, perchlorates, peroxides)	_____	_____
<input type="checkbox"/> Organic Peroxides (i.e., benzoyl peroxide, butyl peroxide, cumene hydroperoxide)	_____	_____

<input type="checkbox"/> Toxic Substances (Class 6.1)	Maximum Quantity	Unit
<input type="checkbox"/> Toxic (i.e., acrylamide, anesthetics, carcinogens, ethidium bromide, reproductive toxins/mutagens)	_____	_____
<input type="checkbox"/> Particularly Hazardous / Highly Toxic (i.e., acrolein, diazomethane, methyl fluorosulfonate, nickel carbonyl, osmium tetroxide, sodium azide, sodium cyanide)	_____	_____

<input type="checkbox"/> Corrosives (Class 8)	Maximum Quantity	mL	L
<input type="checkbox"/> Acids (i.e., acetic, chromic, formic, hydrochloric, hydrofluoric, nitric, perchloric, sulfuric)	_____	<input type="checkbox"/>	<input type="checkbox"/>
Maximum Quantity mL L <input type="checkbox"/> Bases (i.e., ammonium hydroxide, calcium hydroxide, potassium hydroxide, sodium hydroxide)	_____	<input type="checkbox"/>	<input type="checkbox"/>

7. Other Hazards*:	Maximum Quantity	Unit
<input type="checkbox"/> Cryogenics (please specify):	_____	_____
<input type="checkbox"/> Dust Collection	_____	_____
<input type="checkbox"/> Ethylene Oxide Equipment	_____	_____
<input type="checkbox"/> Explosives (DOT Class1)	_____	_____
<input type="checkbox"/> Maximum Quantity	_____	_____
<input type="checkbox"/> High Energy Electrical Equipment	_____	_____
<input type="checkbox"/> Hot Work (i.e., smoldering, welding)	_____	_____
<input type="checkbox"/> Nanomaterials	_____	_____
Specify _____	_____	_____
<input type="checkbox"/> Heat/ Cold	_____	_____
<input type="checkbox"/> Noise		
Above permissible exposure limits	Yes <input type="checkbox"/> No <input type="checkbox"/>	
Noise absorbing wall materials	Yes <input type="checkbox"/> No <input type="checkbox"/>	
Segregate from common areas	Yes <input type="checkbox"/> No <input type="checkbox"/>	
Need to monitor to find out levels	Yes <input type="checkbox"/> No <input type="checkbox"/>	

- Electrical Supply
 - Distribution meets lab needs Yes No
 - >120 Volts Yes No
 - Emergency outlets for essential equipment (i.e. -80freezers, incubators, etc.) Yes No
- Other: _____

8. Egress*

- Hazardous activities- 2 exits
- Fume hoods away from exits
- Unimpeded
- Walkways/ Floor openings/ Steps/ Ladder

9. Other

Please indicate other issues that may require special design or equipment in the lab that US&A or University Architects should be aware of. _____

10. Departmental Review:

- University Safety & Assurances
- Lab Safety _____ (Initials)
 - Bio/Rad Safety _____
 - Animal Care _____
 - University Architects _____
 - Facility Services _____