



Laboratory Planning Questionnaire

The following survey has been developed to verify program assumptions and general planning needs. At least one form should be completed for each space type or lab module (i.e. teaching lab, research lab, support lab). For any categories that are not relevant, please indicate N/A.

Submission Date

Name (First, Last)

Title and Department

E-mail

Primary Contact Phone Number

Laboratory Type

Identified Existing Room Location



Lab Safety

For each category below, please select the hazards, if any, which may apply to the work performed in your space.

Biological:

- Animal blood, body fluids, and/or tissues
- Animal inhalation anesthetics
- Biological materials
- Human blood, body fluids, tissues, and/or bloodborne pathogens
- Infectious proteins
- Live animals
- Plant research
- Recombinant and/or synthetic nucleic acids
- Select Agent pathogenic microorganisms

Chemical:

- Any hazardous chemicals
- Carcinogens
- Corrosive liquids
- Engineered nanomaterials
- Environmental hazards
- Flammable chemicals
- Generates hazardous waste
- Hazardous compressed gases (Corrosive, Flammable, Oxidizing, Toxic)
- Hazardous drugs
- Highly toxic chemicals
- Irritants
- Reactive chemicals (Explosive, Oxidizing, Pyrophoric)
- Regulated chemicals (DEA controlled, Select Agent Biotoxins)



Ionizing Radiation:

- Ionizing radiation (including x-ray) generating equipment
- Radioactive materials

Non-Ionizing Radiation:

- Commercial or lab-built microwave/radio frequency emitting equipment
- Lasers
- Magnetic fields, high intensity
- UV light sources

Physical:

- Cryogenics and dry ice
- Electrical hazards
- Heavy equipment
- High heat
- Inert compressed gases
- Lithium Batteries
- Noise hazards
- Particulates from machines and operations
- Pressure and vacuum vessels
- Robotic machinery
- Shop equipment

Note: For the following questions, if you do not know the specific information being requested, please describe the activity or functions to be performed. For example, if do not know the specific vibration requirement, describe the activities to be performed that may be sensitive to vibrations.



Hazardous Waste: Please describe any type of waste that will be produced in the lab.

Laboratory Infrastructure

Laboratory Equipment: Please list all existing and/or anticipated equipment in your lab.

Equipment Type/Name

Do you require a fume hood in the lab?

- Yes
- No
- Unsure (Contact EHS)



Ventilation Requirements: Please describe any special environmental space conditions you need, e.g.: containment, sterility, HEPA filtration, laminar flow, vacuum, oxygen depletion sensors, purge or increased ventilation, etc.:

Electrical/Data Requirements Please describe the electrical/data and services, type, quality and locations that are required by your laboratory, e.g.: emergency power (EP), 208v and 480v power, dedicated power, uninterruptured power supply (UPS), clean power, isolated grounds, fiber, data requirements, etc.:

Lighting Requirements: Please describe any specialty lighting controls or environmental control required, e.g.: switching, dark rooms, etc.:



Laboratory Bench and Fume Hood basic services include: laboratory vacuum; laboratory air, natural gas and processed chilled water.

1. What levels of vacuum do you require? Please identify in inches of mercury vacuum ("Hg vac) or torr.

2. Beyond the typical bench/fume hood vacuum levels of 19-21" Hg vac or 230-280 torr are there requirements for higher (deeper) levels of vacuum?

3. Are there any pieces of equipment or processes that require large volumes (flow rates) of vacuum?

4. What pressure levels of compressed air do you require? Please identify in pounds per square inch gauge pressure (PSIG).

5. What levels of compressed air filtration do you require? Please identify in microns.

6. Beyond the typical 100 PSIG distribution; 35 PSIG bench/fume hood; +4°F @ 100 PSIG dew point; .01 micron filtration laboratory compressed air are there any more stringent laboratory air requirements?

7. Do you require natural gas?

8. Are there any pieces of equipment or processes that require processed chilled water for cooling?



Specialty Gas Services: Specialty gases (hydrogen, nitrogen, oxygen, helium, argon, carbon dioxide, air, mixtures, etc.) are provided either from a centrally piped manifold distribution system or point of use cylinders with regulator/manifold.

Are there any pieces of equipment or processes that require an uninterrupted supply of specialty gas and what is the required psig?

Gas Cylinder Capacity and Flexibility

In order to plan for specialty gas distribution, we need to understand the types, quantities, and demand for each cylinder gas by completing the attached table:

Gas Type	Manifold (Shared)	Local (within lab)	Cylinder Size	Uninterrupted Flow	Frequency of use
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How frequently will you need to replenish/replace or want to change this cylinder type to a different gas?

Special Wastes

The laboratory drainage system collects wastes from laboratory sinks, cup sinks and equipment conveyed via a floor drain. Typically, laboratory protocol requires contaminated and/or acidic waste to either be contained for disposal (hold and haul) or neutralized before discharge into the sanitary drainage system after obtaining a permit from the City of Fayetteville .

Do you generate any liquid waste that is required to be contained for disposal?



What types of chemicals/acids could be discharged into the laboratory waste system?
What quantities of such chemicals/acids would be anticipated? Please identify in
gallons or liters per day.

Special Requirements and Additional Information

Please describe any special requirements within your lab. For example, vibration or
noise control or radio frequency shielding or another other speciality need.

Please describe any additional requirements or information not mentioned above such
as lab support needs including freezers, refrigerators, dry storage, cold storage, dark
rooms, temperature, humidity control, etc.

Please advise if the lab will need to be designed for any particular Biosafety Level
(define level, if so) and/or be required to comply with sponsored funding source
requirements (NIH, CDC, NSF, DoD, etc.).

Please upload any supporting documentation here to include equipment cut sheets: