HARVARD
Campus Services
ENVIRONMENTAL HEALTH & SAFETY

PI EH&S Intake Survey New or Renovated Labs

The Harvard EHS Office is requesting the following information regarding the activities, processes, hazardous materials used and equipment requirements for the proposed laboratory renovation and/or construction. This information will form the basis of EHS input to the project team.

When finished please email to the appropriate EHS Lab Safety Advisor (LSA) or Designated Safety Officer (DSO). You can find the contact information for LSO's and DSO's in this document https://www.ehs.harvard.edu/node/8626

SECTION 1. INFORMATION

NAME: _____

PI GROUP: _____

TODAY'S DATE: _____

EMAIL: _____

LABORATORY LOCATIONS: _____

DEPARTMENT: _____

SECTION 2. NATURE OF LABORATORY ACTIVITIES

NATURE OF LAB ACTIVITIES: (Please select all that apply)

☐ **Teaching;** ☐ **Research** ☐ **Other:** _____

Please provide a brief description of the specific research and/or teaching activities.

SECTION 3. HAZARDOUS MATERIAL USE/STORAGE

Will hazardous materials be used or stored in the new laboratory? Please attach an inventory of hazardous materials, including the maximum storage quantities.

SECTION 4: CHEMICAL

Chemical Hazards (Select all that apply)

- ☐ Air or Water-Reactive Materials
- ☐ Nanomaterials
- ☐ Hazardous Gases
- ☐ Inert Compressed Gases
- ☐ Corrosives (acids or bases)
- ☐ Cryogenic Liquids
- ☐ Explosive Materials
- ☐ Flammable Liquids and Solids
- ☐ Hydrofluoric acid
- ☐ Oxidizers
- ☐ Toxic Materials

Air/Water-Reactive Quantity:	**Air-Water Reactive Use:**
Compressed Gases Quantity:	**Compressed Gases Use:**
Cryogenic Liquids Quantity:	**Cryogenic Liquids Use:**
Hazardous Gases Quantity:	**Hazardous Gases Use:**
Corrosives Quantity:	**Corrosives Use:**
Flammable Liquids/Solids Quantity:	**Flammable Liquids/Solids Use:**

Oxidizers Quantity:	**Oxidizers Use:**
Solids Quantity (powders and particulates):	**Solids Quantity (powders and particulates) use:**
Explosive Materials Quantity:	**Explosive Materials Use:**
Nanomaterials Quantity:	**Nanomaterials Use:**
Toxic Materials Quantity:	**Toxic Materials Use:**

SECTION 5: WASTE

Will chemical waste materials be generated in this lab (this should include metal bearing wastes, solvents, oils electronic wastes/leads etc.)? If so, please provide a list in the box below include approximate monthly quantities.

Will wastewater streams be generated in the lab? Please describe, include the estimated average daily volume(s) of each wastewater stream, the characteristics/contaminants (toxics, organics, metals, pH & temp)

SECTION 6: WATER SUPPLY

Will water use in the lab require high purity water or cooling water? Please list water supply requirements.

SECTION 7: EQUIPMENT

List of lab Equipment (select all that apply):

- ☐ Air Monitoring/Detectors
- ☐ Biosafety Cabinets
- ☐ Compressed Gas Piping
- ☐ Emergency Eye-Wash/Shower
- ☐ Fossil Fuel Burning
- ☐ Fume Hoods
- ☐ Furnace/Oven
- ☐ Glove Box
- ☐ Instrumentation
- ☐ Other Equipment Requiring Local Exhaust
- ☐ Photo or Film Processing
- ☐ Vacuum Pumps
- ☐ vacuum chamber

Provide Details (number, size etc):

Fume Hoods, :
Product Protection Laminar Flow Hoods:
Biosafety Cabinets:
Compressed Gas Piping:

Glove Box:
Photo or Film Processing:
Vacuum Pumps:
Furnace/Oven:
Instrumentation (instruments that measure hazardous materials like cryostats, nanoparticles etc):
Fossil Fuel Burning:
Other Equipment-Local Exhaust (ie laser cutters, 3D printers, soldering etc):
Air Monitoring/ Detectors:
Emergency Eye Wash Shower:
Other (high voltage power supplies, Uninterrupted Power Supplies etc):

SECTION 8: RADIOACTIVE MATERIAL AND RADIATION PRODUCING DEVICES (INCLUDING MAGNETIC FIELDS)

Are there any proposed uses of the following materials?

- ☐ Class 1 embedded lasers
- ☐ Generating Equipment, sources of non-ionizing radiation (e.g., lasers, THz),
- ☐ Laser Cutters
- ☐ Radioactive Material, Particle accelerators
- ☐ Radiofrequency producing devices or magnetic field producing devices (e.g., MRI, NMR).
- ☐ X-Ray Machines/X-Ray

Please describe the use of these materials/ sources:
Are there any proposed uses for lasers in the lab? If so, please describe.

Section 9: **BIOLOGICAL**

Will Tissue culture be performed in the lab? Please describe the use of the tissue culturing:
Are biological materials (e.g. bacteria, viruses, human materials, fungi, toxins) being proposed in the labs?
Are any of the materials a human, animal, plant pathogen or USDA soils?
Will any culture be greater than 5 liters?

Will planned procedures result in generation of aerosols outside of a biosafety cabinet?
Will non-federally approved human embryonic stem cells be used?
Will experiments in the lab(s) involve viral vectors? Please describe vectors, tropism and nature of genes involved?
Is there a plan to do gene transfer-based work of any sort including organic-based nano-particles?
Will an autoclave be in the lab(s)?
Please list species and nature of experiments?