**Date:**

**New Principal Investigator (PI):**

**Email (Technion mail, if possible):**

**Laboratory Characterization Form**

|  |  |
| --- | --- |
| **Faculty:** |  |
| **New PI:** |  |
| Lab's Main Character | Chemical  Biological  Physical (inc. Lasers, X-rays)  Medical  Mechanical  Computers  Robotics  Servers  Unmanned aircrafts  Other |
| Academic mentor (filled by the faculty) | Name: Mobile: |
| Construction mentor (filled by ABAT) | Name: Mobile: |
| Safety advisor (filled by Safety) | Name: Mobile: |
| No. of people in prospective research group |  |
| Types of rooms in lab | Chemical space  Culture / virus rm.  Fabrication  Clean room, \_\_\_\_ppm  Behavior rm.  Storage rm.  PI office  Lab manager office  Students' space  Server rm.  Other |
| Prospective lab scheme: place main systems in the various lab rooms. Indicate scale of the various equipment and add SPECS links. **Mandatory\*** | |
| **Systems** | |
| Robotics | N Y Type: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_  Links: |
| Microscopes | N Y Type: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_  Links: |
| Laser systems | N Y Class: \_\_\_\_\_\_\_\_\_\_, \_\_\_\_\_\_\_\_\_[mW]  Links: |
| 3D Printer | PLA  ABS  Other  Link: |
| X ray | N Y Type: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_  Links: |
| UV | N Y Type: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_  Links: |
| NMR | N Y Type: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_  Links: |
| MRI | N Y Type: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_  Links: |
| CT | N Y Type: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_  Links: |
| GC | N Y Type: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_  Links: |
| HPLC | N Y Type: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_  Links: |
| Distillation Systems | N Y Requires vacuum: No Yes \_\_\_\_\_\_\_\_\_\_[bar]  Links: |
| DDW | N Y Links: |
| Unmanned aircrafts | N Y Type: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_  Links: |
| Special electricity requirements | Personal UPS (purchased by PI)  UPS in HPC  Local chiller system  Other  Link: |
| **Safety considerations (fill in in collaboration with your faculty’s safety officer)** | |
| HazMats (Hazardous materials) | Combustibles (ex.: ammonium nitrate)  Pyrophorics (ex.: butyl lithium, metal nitrate)  Heavy metals (inc.: lead, mercury)  Cancerous/toxic (ex.: benzene, fuels, formaldehyde, cyanides)  Strong acids / bases  Corrosives (ex.: HF, NaOH)  Oxidizers (ex.: H2O2, cyclohexane)  Nanomaterials (≤100nm, ex.: titanium oxide)  Other |
| Gasses: compressed, cryogenics, LPG | Flammable (ex.: hydrogen, acetylene, ethane)  Toxic (ex.: ammonia, silane, diborane)  Inert (ex.: helium, argon, nitorgen)  Forming gas  LPG (cooking gas) |
| Biological agents | Bacteria  Viruses  Amoebas  Yeast  Fungi  Drosophila  *C. elegans*  Animals  Details:  Will you be anaesthetizing animals in the lab?  Y  N |
| Radioactive isotopes | Open sources:  Y  N Details:  Sealed sources:  Y  N Details: |
| Waste planning | Chemical  Biological  Radioactive  Carcasses |
| **Construction considerations (fill in in collaboration with your mentor construction lab manager)** | |
| Hood | Chemical  Biological (purchased by PI)  Glove box  120cm No. of required hoods of this size:  150cm No. of required hoods of this size:  180cm No. of required hoods of this size:  Other size: \_\_\_\_cm No. of required hoods of this size: |
| Autoclave | N Y Link: |
| Ovens | N Y Max. Temp.: \_\_\_\_\_\_\_\_\_\_\_ºc  Materials to be dried: Lab ware Chemicals Both  Oven requires external ventilation: Y N  Oven requires vacuum: Y N  Links: |
| Refrigerators / Freezers | Storing flammables: Y N Min. Temp.: \_\_ºc  Size of fridge / freezer: \_\_\_\_\_\_\_ liters  Standard freezers: No. of freezers: \_\_\_ Tabletop  Standing  Standard fridges: No. of fridges: \_\_\_ Tabletop  Standing |
| Centrifuges | Tabletop Link:  Standing Link:  Ultra-centrifuge Link: |
| Special electricity requirements | Personal UPS (purchased by PI)  UPS in HPC  Local chiller system  Emergency power sockets  Other Links: |
| 3D Printer | ABS  PLA  Other Link: |
| Specific Humidity | N Y Specify required humidity:  Min.: % Max.: % |
| Specific Temperature | N Y Specify required Temp, inc. Tolerance:  Min.: °c Max.: °c |
| Vibrations | N Y Tolerance / Resolution required: |
| RF / ELF Disturbances | N Y Tolerance / Resolution required: |
| General comments |  |

1. Each alteration of the lab's characterization, following the dean's signature, will be financed by the prospective faculty.

2. Final space allocated for this lab: **Bldg.: \_\_\_\_\_\_\_\_\_\_ Floor: \_\_\_ Room/s: \_\_\_\_\_\_\_\_\_ Total lab area: \_\_\_\_\_\_\_\_\_\_\_\_\_ m^2**

3. This form must be signed by all parties listed here.

**Name of dean: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Date: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Signature: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**

**Signature of new PI: \_\_\_\_\_\_\_\_\_\_\_\_\_ Mobile: \_\_\_\_\_\_\_\_\_\_\_\_\_**