**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 [ ]  OtherLink: |
| 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 [ ]  OtherLink: |
| **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* [ ]  AnimalsDetails: 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.: \_\_\_\_\_\_\_\_\_\_\_ºcMaterials to be dried: [ ] Lab ware [ ] Chemicals [ ] BothOven requires external ventilation: [ ] Y [ ] NOven requires vacuum: [ ] Y [ ] NLinks: |
| Refrigerators / Freezers | Storing flammables: [ ] Y [ ] N Min. Temp.: \_\_ºcSize of fridge / freezer: \_\_\_\_\_\_\_ litersStandard freezers: No. of freezers: \_\_\_ [ ] Tabletop [ ]  StandingStandard 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: \_\_\_\_\_\_\_\_\_\_\_\_\_**