**NANOTECH HACKATHON**

*Innovative solutions for societal problems through nanotechnology...*

**Why Hackathon....??**

INUP invites applications for participating in a contest on innovative nano electronics - based device fabrication targeting technologies at affordable costs addressing societal needs.

India can play a substantial role in the field of nano electronics through cost effective innovation enabling products and services for societal needs that are affordable and of high quality.

MeitY (Govt. of India) has taken a major initiative to encourage and strengthen nanoelectronics through creation and support of several Centres of Excellence in Nanoelectronics and also through INUP at IIT Bombay and IISc Bangalore.

**What are the current challenges faced by the country....??**

The diversity and abundance of high end technical facilities in our country provide a strong foundation to develop solutions for the challenges facing by our nation. Nanotech Hackathon through INUP at IIT Bombay provides the country's first such nanotechnology - based platform in various areas described below. For more details visit: [http://www.inup.iitb.ac.in/hackathon/docu/Projects_area_description.pdf](http://www.inup.iitb.ac.in/hackathon/docu/Projects_area_description.pdf)

**Support from INUP**

- Minimum 18 years as on 01-01-2018. No upper age limit.
- Applicant should be from academia [either faculty/ registered student(s)].

**ELIGIBILITY**

- Proposal submission can be done by a single participant or a group of 2-3 team members.
- For detailed guidelines on registration and proposal submission visit: [http://www.inup.iitb.ac.in/hackathon/register.php](http://www.inup.iitb.ac.in/hackathon/register.php)

**GUIDELINES**

- Submission deadline: October 22, 2018.
- Declaration of results: October 30, 2018

**Facilities at IITBNF**

IITBNF - 21 Labs, 150 tools

For more details about the equipment, visit: [http://www.iitbnf.iitb.ac.in/index.php?layout=edit&Id=18](http://www.iitbnf.iitb.ac.in/index.php?layout=edit&Id=18)

---

**INUP**

**Logistics support (Arrangement TA & DA)**

**Recognition**

**Testing of product**

**Facilities at IITBNF**

- **Deposition, Growth & Annealing systems**: 43%
- **Dry Etch tools**: 4%
- **Electrical characterization tools**: 9%
- **Lithography tools**: 8%
- **Material and structural characterization tools**: 14%
- **Miscellaneous**: 14%

---

**ORGANIZER:**

Prof. Saurabh Lodha, Chief Investigator – INUP,
Department of Electrical Engineering,
IIT Bombay, Powai, Mumbai – 400 076.
Email: slodha@ee.iitb.ac.in

**CONTACT US INUP Team, IIT Nanofabrication Facility,**
Department of Electrical Engineering, Annex,
IIT Bombay, Powai, Mumbai – 400 076
Email: inuphackathon@ee.iitb.ac.in Tel: 022 2576 4472/4435