Why Hackathon....??

INUP-i2i invites applications for participating in a contest on innovative nanoelectronics-based device fabrication targeting technologies at affordable costs addressing societal needs.

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 our nation. Nanotech Hackathon through INUP at IIT Bombay provides the country’s first such nanotechnology-based platform in various areas described below but not limited to the illustrated examples.

- Production (e.g. Moisture and soil sensors)
- Protection (e.g. Ultra sound insect repellents)
- Storage (e.g. Acetylene gas sensors)
- Low-cost (e.g. Alternatives for existing PV cells)
- High efficiency technologies
- Energy harvesting devices
- Diagnostic devices (e.g. Blood testers)
- Control (e.g. Food alteration testers)
- Cure (e.g. Low cost lasers to kill cancer cells)
- Passenger security (e.g. Fatigue and jerk sensors)
- Obstacle detectors (e.g. low cost car parking solutions)
- Quality Improvement (e.g. Non-degradable notebooks, Dust-free chalks, Lead-free pencils)
- Air and water quality
- Low carbon devices (e.g. Biodegradable electronic devices)
- Detection (e.g. Explosive and metals)
- Control (e.g. PUF based cyber security)
- Tracking (e.g. Low cost motion sensors)
- Recognition (e.g. Object ID scanners)
- Communication (e.g. Low cost transceivers)

Support from INUP

- Infrastructure & Technical support
- Technical Mentoring
- Connect with other facilities for large scale prototyping
- Connect with facilities for packaging and prototype testing
- Connect with start-up incubators

ELIGIBILITY

- Minimum 18 years as on 01-07-2022. No upper age limit.
- Applicant should be from academia [either faculty/registered student(s)].

GUIDELINES

- 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/

IMPORTANT DATES

- Submission deadline: 25-09-2022
- Declaration of results: 25-10-2022

Facilities at IITBNF

IITBNF - 21 Labs, 150 tools

For more details about the equipment, visit:
http://www.iitbnf.iitb.ac.in/iitbnf/index.php/infrastructure/layout-edit/id/18