

ENS – IISER Network / BIOSANTEXC Project

Internship Proposal Form

France to India

(Discipline/Field name)

--Sensors and System--

Internship title: Flexible pressure sensor and system

Keywords related with the subject (minimum 3): Flexible Electronics, Sensors, Pressure Sensor

Name of the laboratory(ies) at IISER Bhopal: i-Lab

Name of the internship supervisor(s): Mitradip Bhattacharjee

Email(s) of the supervisor(s): mitradip@iiserb.ac.in

Requested level (For French Student M1/M2 level): M1 or M2

Prerequisites for the internship: Basic electrical characterization

Foreseen start date: Upcoming Summer Break (May 2025)

Internship type:

X ☒ Summer internship ☐ ~~Research stays~~ ☐ ~~6+6 months internship~~

For 3 to 6 months internships, please indicate the desired duration: 3 months

For 6+6 months internships, please also fill in (French collaborator, if applicable):

- **Name of the internship co-supervisor:**
- **Name of the co-supervisor's laboratory:**
- **Email of the co-supervisor:**

**Internship proposal (description and expected training outcomes in 500-1000 words max)
(mandatory):**

Flexible electronic systems are gaining attention day by day due to their applications in wearable devices. This project will target to development of flexible electronic pressure sensors and systems for various applications. The project will be discussed and designed based on the interest and experience of the candidate. The basic aim of the project is to develop flexible microstructure-based pressure sensors and characterize the same. At the end of the project, it is expected that the student will learn fabrication of a flexible pressure sensor and system and also will learn to characterize the sensor using various electronic characterization instruments.

Internship conditions:

- monthly stipend of INR 15,000
- Accommodation will be provided on the IISER Bhopal campus
- cultural tour of nearby locations for ENS students during the stay.