



# INDIAN INSTITUTE OF TECHNOLOGY BOMBAY POWAI, MUMBAI 400076.

**Advertisement No.: IRCC/EXT148/2023**

**Job Title**

Senior Project Research Scientist

**Job Reference Number**

50459131

**Application End Date**

09.06.2023

**Type of Employment**

Proj. Staff Contract

**No. of Position(s)**

1

**IITB Project Recruitment:**

Project title: Development of smart drone ecosystem and demonstration of social applications towards larger drone deployment strategy of maharashtra

About the project: This project focuses on developing and demonstrating a part of the drone ecosystem for societal applications in rural areas, aligning with Maharashtra's larger drone deployment strategy. The project will specifically address societal needs, such as agriculture, disaster management, and emergency service delivery through the utilization of advanced technologies and critical infrastructure. Strong industry connections and collaborations will be fostered to solve pertinent challenges and drive technological advancements. Additionally, comprehensive drone training and awareness programs will be provided to ensure proficiency and understanding among people.

**Essential Qualifications & Experience:**

PhD with minimum 4 years relevant experience

OR

MTech/ME/MDes/MBA or equivalent degree with minimum 8 years relevant experience

OR

BTech/BE/MA/MSc/MCA or equivalent degree with minimum 10 years relevant experience

Candidate should have experience in :

- Path planning / trajectory optimization of swarm of drones;
- Good knowledge of ROS / GAZEBO;
- Matlab and Simulink;
- Applied to Drones / aerial robots;
- Implementation of controllers, mission planner on on-board computers

**Job Profile:**

- Mission generation tool for drones;
- Path planning and trajectory optimization for drones;
- UAV controller design;
- Implementation on real hardware Realtime simulation of swarming missions; execution of missions in field (realistic scenario);
- Any other work assigned as per requirement.

***Pay Details:***

Level PR-O3: Salary range from Rs.58800 to Rs. 109200 + Rs.10000.00/- Out Of Campus Allowance (if applicable) p.m.

***General information:***

The position is temporary for a period of 1 year and depending on the candidate's performance, the contract will be renewable annually till the duration of the project. Project duration is 5 years.

The appointment is for time bound project and the candidate is required to work mainly for the successful completion of the project. The selection committee may offer lower or higher designation and lower or higher salary depending upon the experience and performance of the candidate in the interview.

Candidates called for interview will be required to attend at his/ her own expenses.

For any queries/clarification please contact: [recruit@ircc.iitb.ac.in](mailto:recruit@ircc.iitb.ac.in)