



भारतीय प्रौद्योगिकी संस्थान भिलाई

जिला-दुर्ग, छत्तीसगढ़-491001

Indian Institute of Technology, Bhilai

Dist.- Durg, Chhattisgarh - 491001

Website: www.iitbhillai.ac.in

Annexure - II

Advertisement for the posts of Project Assistant and Project Associate-II in ANRF funded Research Project

Applications are invited from Indian nationals for the positions of Project Assistant and Project Associate-II in a ANRF funded research project with the following details:

Title of the Project: Strategic Air Corridor Design and Traffic Management for Fixed-Wing UAV Integration in Indian Airspace

Project Team

- Principal Investigator: Dr. Kedarisetty Siddhardha, Assistant Professor, Department of Mechatronics Engineering, Indian Institute of Technology (IIT) Bhilai, Chhattisgarh- 491001.
- Co-Principal Investigator: Dr. Vinod Kumar Reddy, Associate Professor, Department of Computer Science Engineering, Indian Institute of Technology (IIT) Bhilai, Chhattisgarh-491001.
- Co-Principal Investigator: Prof. Ashwini Ratnoo, Professor, Department of Aerospace Engineering, Indian Institute of Science (IISc), Bengaluru, Karnataka-560012.

Project Brief

This project aims to develop a next-generation UAV Traffic Management (UTM) framework for long-range fixed-wing UAVs (FWUAVs). Since FWUAVs cannot hover, they require dedicated airspace structures for safe and efficient traffic management. The project focuses on designing strategic air corridors connecting multiple cities, developing conflict-free traffic management architectures, and creating cooperative guidance algorithms for large-scale UAV operations. The work involves mathematical modeling, path planning, control systems, simulation, and experimental validation. The outcomes will contribute to future UAV-based logistics, medical supply delivery, disaster response, and regional air mobility systems aligned with India's evolving BVLOS and Digital Sky initiatives.

Position-1 Details

- Name of the position: Project Assistant
- Essential qualifications: Bachelor's degree in Science/ 3 years Diploma in Engineering & Technology/ Engineering Graduate
- Desirable: a) Strong Base in 10th and 12th class maths, b) Fundamentals of Control Systems, c) Basics of MATLAB, and d) Python
- Age limit: None
- Salary: Rs. 27,000 + HRA (20%) per month
- Duration: 12 months (provision for extension and increment on performance review).
- Role: Assist in simulation studies, UAV experiments, data analysis, and project documentation.



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Position-2 Details

- **Name of the position:** Project Associate-II
- **Essential qualifications:** Bachelor's degree in Engineering or Technology + Masters in Engineering or Technology or Two years of experience in R&D/ Academic Institutes.
- **Desirable:** a) Strong Base in 10th and 12th class maths, b) Experience in modelling UAVs, c) Knowledge in Control Systems, d) Basics of MATLAB, and e) Python
- **Age limit:** None
- **Salary:** Rs. 42,000 + HRA (20%) per month
- **Duration:** 12 months (provision for extension and increment on performance review).
- **Role:** Develop and validate algorithms for UAV traffic management, air corridor design, and cooperative guidance, and contribute to research publications and project deliverables.

How to apply: Interested candidates must apply on the application form attached with this advertisement. Duly completed application form along with candidate's resume must be mailed or emailed to the PI so as to reach him by 30/06/2026. Only shortlisted candidates will be called for interview. The positions are available immediately.

Due date: The application must reach the PI, Dr. Kedarisetty Siddhardha (siddhardhak@iitbhillai.ac.in), by 30/06/2026.

Terms & Conditions:

- No TA/DA will be provided to the candidate for the interview
- The PI shall not be responsible for postal/courier delay if any, or any other reason for non-receipt of the document at the specified time and will result in disqualification/rejection of the application.
- The decision of the selection committee will be final.
- If the number of shortlisted candidates called for the interview is large, the selection committee may decide to restrict the number of candidates for the interview to a reasonable limit after considering qualifications and experience over and above the minimum prescribed in the advertisement.
- The appointment of the candidate will be governed by the terms and conditions of the Institute/ funding agency particularly applicable to the said project as and when required.
- The selected candidate will have to join duty immediately on receipt of the offer.
- The fellowship may be terminated with a 30-day notice before completion of the tenure if performance till date is not deemed satisfactory.



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