

No.: Advt/ IITT/CSRC/2024-25/52

Date: 13-03-2025

Applications are invited from eligible Indian nationals for the **Junior Research Fellow** post in a time-bound sponsored project undertaken in the Department of Electrical Engineering.

Temporary Position Essential Qualification	Junior Research Fellow First Class (CGPA greater than 6.5 or 65% or more) in M. Tech / M.S. or PG degree in ECE / EE / CSE / IT / AI / Data science/ Mathematics or related fields with knowledge of Machine Learning and Python coding <i>Relaxation:</i> 6.5 CGPA or 65% for OBC/EWS 6.0 CGPA or 60% for SC/ST/PWD
Project No.	ELE2324006NHUBRAMA
Project Title	Small objects Detection and tracking in aerial images under diverse weather conditions
Sponsoring Agency	TIH NiF
Consolidated monthly Salary	Rs. 37000/ month and HRA as per norms
Principal Investigator	Dr. Rama Krishna Sai Gorthi
Department/Centre	Electrical Engineering
Tenure of Assignment	1 year and may be extended for one more year based on the performance. Provision to consider for PhD selections at IIT Tirupati is available based on performance and eligibility.
Desired Experience	<ul style="list-style-type: none"> • Must have an M. Tech / M.S. or PG degree in ECE / EE / CSE / IT / AI / Data science / Mathematics or related fields. • Must be familiar with Machine Learning. • Must be proficient in coding preferably in Python. • Must have a CGPA greater than 6.5 or 65% or more marks in the qualifying degree. • Valid GATE score is an added advantage.
Nature of the Work	<ol style="list-style-type: none"> 1. Study and review the recent trends and advances in algorithms to detect tiny objects in adverse weather conditions. 2. Develop algorithms to support these tiny object detection in the following different scenarios a. Drones visible like point targets; b. Appearance and Pose change; c. Low Visibility like cloudy and foggy conditions; d. Illumination Changes 4. In-house dataset creation for training and testing. 5. Realisation of developed algorithms on GPU-based edge hardware.
Age Limit	Age limit- Not more than 30 years as of 31-03-2025 (Relaxed for exceptional candidates)
Last date application	28 th Mar 2025 till 05.30 PM
Application Link	https://forms.gle/eeKp9hqRJKP8Nh1h7

Eligible candidates must attach their **detailed CV** specifying their qualifications and experience with scanned copies of marksheets and certificates from X class to date. All files should be clubbed as a single PDF File.

The statement of purpose must include responses to the following questions:

1. Describe your research interests in the advertised area
2. Explain the tentative research plan briefly by using schematics, figures, flowcharts, and relevant references.

The shortlisted candidates will be informed by **Email only**. Selection will be based on the qualification, experience, and interview. **The interview and other logistics will be conducted via online only**. The interview date will be notified to the shortlisted candidates by Email. The candidate may appear in the interview through video conferencing. IIT Tirupati reserves the right to reject any or all the applications without assigning any reason thereof. **No** TA/DA for attending the interview. The interview date will be notified to the shortlisted candidates by email.

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