भारतीय प्रौद्योगिकी संस्थान तिरुपति
TIRUPATI
INDIAN INSTITUTE OF TECHNOLOGY TIRUPATI
भारतीय प्रौद्योगिकी संस्थान तिरुपति
CENTRE FOR
SPONSORED RESEARCH AND CONSULTANCY
Yerpedu – Venkatagiri Road, Yerpedu Post, Tirupati District, A.P – 517619

No.: Advt/ IITT/CSRC/2023-24/13 **Date: 15-07-2024**

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. GATE/CSIR-NET or equivalent national-level exam qualification.
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	● 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.
Nature of the Work	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 25-07-2024 (Relaxed for exceptional candidates)
Last date application	30th July 2024 till 05.30 PM

Eligible candidates must send a **detailed CV (maximum 2 pages)** specifying their qualifications and experience **and a brief statement of purpose** on or before **30th July 2024** to Dr. Rama Krishna Sai Gorthi, Associate Professor, Department of Electrical Engineering, IIT Tirupati through csrc_recruitment@iittp.ac.in and rkg@iittp.ac.in.

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.

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