

No.: Advt/ IITT/CSRC/2023-24/18

Date: 24-01-2024

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	Junior Research Fellow
Essential Qualification	First Class (CGPA greater than 6.5 or 65% or more) in B.E Mechanical Engineering with knowledge of heat transfer or Porous Medium combustion with GATE/NET/GPAT score
Project Title	Design and Development of Algorithms for Online Long-Term Target Tracking
Sponsoring Agency	DRDO
Consolidated monthly Salary	Rs. 37,000 + HRA
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.
Desired Experience	<ul style="list-style-type: none"> • Must have B. Tech or higher degree in ECE / EE / CSE / IT / AI or in related fields • Must be familiar with Machine Learning, Deep Learning • Must be proficient in coding in Python and using Deep learning libraries • Must have a CGPA greater than 6.5 or 65% or more marks in the qualifying degree.
Nature of the Work	<p>Study and review the recent trends and advances in algorithms to detect and track the designated person in a similar looking crowd.</p> <p>2. Develop algorithms to support the long-term tracking in both day and night with capability to handle.</p> <p>a. Partial to full occlusion; b. Appearance and Pose change; c. Low Visibility like rain and foggy condition; d. Illumination Change</p> <p>3. Estimate the 3D position (in sensor space) of the person being tracked.</p> <p>4. In-house dataset creation for training and testing.</p> <p>5. Realization of developed algorithms on a GPU based edge hardware.</p>
Age Limit	Age limit- Not more than 30 years as of 08-02-2024 (Relaxed for exceptional candidates)
Last date application	08 th Feb 2024 till 05.30PM

Eligible candidates must send a **detailed CV (maximum 2 pages)** specifying their qualifications and experience **and a brief statement of purpose** on or before **08th Feb 2024** to Dr. Rama Krishna Sai Gorthi, Associate Professor, Department of Electrical Engineering, IIT Tirupati 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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