

No.: Advt/ IITT/CSRC/2023-24/12

Date: 12-07-2024

Applications are invited from eligible Indian nationals for the Project Engineer post in a time-bound sponsored project undertaken in the Department of Electrical Engineering.

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| Temporary Position | Project Engineer |
| Essential Qualification | First Class (CGPA greater than 6.5 or 65% or more) in B.E / B.Tech in ECE / CSE or related areas or MCA / MSc (Math, Computers, Physics, Data Science or related fields) / BS graduates from IISERs with knowledge of Machine Learning and Python coding. |
| Project Title | Design and Development of Algorithms for Online Long-Term Target Tracking |
| Sponsoring Agency | DRDO |
| Consolidated monthly Salary | Rs. 15000/ month including HRA |
| Principal Investigator | Dr. Rama Krishna Sai Gorthi |
| Department/Centre | Electrical Engineering |
| Tenure of Assignment | 6 months and may be extended up to one more year based on the performance. Provision to consider for M.S (Research) selections at IIT Tirupati is available based on performance and eligibility. |
| Desired Experience | <ul style="list-style-type: none"> ● Must have B. Tech or higher degree in ECE / EE / CSE / IT / AI / Data Science or related fields; MCA / MSc (Math, Computers, Physics, Data Science or related fields) / BS graduates from IISERs with relevant project experience are also eligible to apply. ● 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 | <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 the capability to handle.</p> <p>a. Partial to full occlusion; b. Appearance and Pose change; c. Low Visibility like rain and foggy conditions; 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. Realisation of developed algorithms on GPU-based edge hardware.</p> |
| Age Limit | Age limit- Not more than 27 years as of 27-07-2024 (Relaxed for exceptional candidates) |
| Last date application | 27 th 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 **27th July 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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