

**INDIAN INSTITUTE OF TECHNOLOGY, ROORKEE**  
**Department of Computer Science and Engineering**

Dated: 07/02/2024

**ADVERTISEMENT TO FILL UP PROJECT POSITIONS\***

Applications are invited from Indian nationals only for project position(s) as per the details given below for the consultancy/research project(s) under the Principal investigator (Name: **Prof. Pravendra Singh**), Dept. of Computer Science and Engineering, Indian Institute of Technology, Roorkee.

1. Title of project: **GP-GPU based Hardware Implementation for Identification and Classification of Infrared Image**
2. Sponsor of the project: **IRDE, DRDO, Dehradun (DRD-2244-CSE)**
3. Project position(s) and number: **PROJECT ASSOCIATE, 01 Position**
4. Qualifications: **B.E./B.Tech./M.E./M.Tech. or equivalent degree in any Engineering Discipline. Candidates must possess a strong programming background, especially in Python. Proficiency in deep learning and hands-on experience in building and training deep learning models using PyTorch/TensorFlow are prerequisites.**
5. Emoluments: **Rs. 37000/month + 9% HRA**
6. Duration: **Initially, for ONE year (extendable up to 1.5 years based on performance)**
7. Job description: **The project will involve the development of a deep learning model for the identification and classification of small objects in infrared images. Candidates should be well-versed in deploying the deep learning model on hardware components, including FPGA and NVIDIA Jetson. Candidates must carry out research work, plan and execute project-related activities, prepare reports and presentations, and draft manuscripts for publication in peer-reviewed conferences/journals.**
8. Candidates before appearing for the interview shall ensure that they are eligible for the position they intend to apply.
9. Candidates desiring to appear for the Interview should submit their applications with the following documents to following order:
  - Application with detailed CV including chronological discipline of degree/certificates obtained.
  - Attested copies of degree/certificate, mark sheets (10<sup>th</sup>, 12<sup>th</sup>, B.E./B.Tech./M.E./M.Tech. Semester wise), and relevant experience certificate (research and industrial field).
10. Candidate shall bring along with them the original degree(s)/certificate(s) and experience certificate(s) at the time of online interview for verification.
11. Please note that no TA/DA is admissible for attending the interview, in case the interview is held offline.

The last date for application to be submitted on following form is **February 29, 2024 by 5 PM.**

Form Link: <https://forms.gle/VtsqUrNdjTV4vYLC6> or

The interview will be held **through online mode**  
 (details will be mailed to shortlisted candidates)

*Pravendra Singh*  
 07/02/2024

**Prof. Pravendra Singh, (Principal Investigator)**

**Email: [pravendra.singh@cs.iitr.ac.in](mailto:pravendra.singh@cs.iitr.ac.in)**

\*To be uploaded on IIT Roorkee website and copy may be sent to appropriate addresses by PI for wider circulation.

APPROVED

*Abhishek Singh*

डीन (सिक)/(Dean SRIC)  
 भा. प्रौ. सं. रुड़की/IIT Roorkee  
 07/02/24 07/02/24



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