



संगणक विज्ञान एवं अभियांत्रिकी विभाग

Department of Computer Science and Engineering

09.07.2021

Recruitment of Junior Research Fellow in the Department of Computer Science and Engineering

Applications are invited for the post of Junior Research Fellow to work in a project titled “**Developing Improved Algorithms for Intelligent Video Surveillance**” sponsored by the Science & Engineering Research Board (SERB), Government of India for three years.

Objectives of the Project:

- Developing automated end-to-end neural network models for accurate tracking of multiple persons in video frames in the presence of fixed or dynamic background, occlusion, and/or persons with similar appearances.
- Developing learning-based algorithms for real-time face and silhouette de-identification without losing information about the activities performed by each subject in a multi-person environment.
- Proposing efficient algorithms for detecting suspicious activities and behavioral anomalies in a crowd with less false alarm rate.
- Carrying our extensive evaluation, and comparative analysis with state-of-the-art techniques.

Details of the Position:

1. **Name of the Position:** Junior Research Fellow (JRF)
2. **Number of Positions:** 01
3. **Last Date of Application:** 21 days from the date of advertisement (*Tentative Interview Date: 31.07.2021*)
4. **Tenure:** Three years (initial appointment will be for one year, which may be extended based on performance)
5. **Emoluments (p.m.):** INR 31,000/-
6. **Qualifications:** MTech in CSE/IT/ECE/Mathematical Sciences with minimum 60% marks or 6.0 CPI (on a 10 point scale), or BTech in CSE/IT/ECE/Mathematical Sciences with minimum 75% marks or 7.5 CPI (on a 10 point scale), or MSc. in Computer Science with minimum 60% marks or 6.0 CPI (on a 10 point scale). The candidate must also qualify GATE in Computer Science.
7. **Desirable Skillsets/Experiences:**
 - Experience of implementing Computer Vision and Machine Learning algorithms such as video object tracking, object segmentation, image segmentation, object tracking, multi-object tracking
 - Knowledge of OpenCV, Deep Learning frameworks (preferable)
 - Good communication skills in English
 - The candidate should be well conversant with the available open-source development frameworks and should have the intent to carry out high quality research work and earn a Ph.D. degree out of this work
8. **Upper Age Limit:** 28 years. Age relaxation applicable as per Government of India (GoI) norms

Application Procedure:

Make a single PDF file (application form along with self-attested copies of all relevant qualification certificates, marksheets, experience certificates, age-proof, and other relevant documents in order), and email it to pratik.cse@iitbhu.ac.in with subject line **Application for JRF-2021**. There is no need to send hard copies of the documents separately. However, candidates need to show the original documents at the time of interview/joining for verification.

General Terms and Conditions: (i) The PI has the discretion to restrict the number of candidates to be called for interview to a reasonable limit by qualifications and experience higher than the minimum prescribed in the advertisement. (ii) Only shortlisted candidates will be communicated through email to appear for the interview. (iii) No TA/DA will be paid for attending the interview. (iv) The position is purely temporary and is coterminous with the project. (v) The selected candidate can be considered for Ph.D. program after fulfilling the required criteria of IIT-BHU. (iv) Please refer to the institute website: www.iitbhu.ac.in/positions_available for further details and updates, if any.

Contact Details:

Dr. Pratik Chattopadhyay (Assistant Professor)
Pattern Recognition Laboratory
Department of Computer Science and Engineering
Indian Institute of Technology (BHU) Varanasi 221005, U.P., India.
Email ID: pratik.cse@iitbhu.ac.in



APPLICATION FOR JRF POSITION IN THE PROJECT

DEVELOPING IMPROVED ALGORITHMS FOR INTELLIGENT VIDEO SURVEILLANCE

Please fill up all the fields of the Application Form properly. Otherwise, your application will not be considered. Email the form to pratik.cse@iitbhu.ac.in along with self-attested copies of all marksheets and certificates.

1. **FULL NAME:**
2. **DATE OF BIRTH:**
3. **SEX:**
4. **CATEGORY (GEN/SC/ST/OBC/EWS):**
5. **MARITAL STATUS:**
6. **NATIONALITY:**
7. **PHYSICALLY HANDICAPPED (YES/NO):**
8. **NAMES OF PARENTS/GUARDIAN:**
9. **ADDRESS OF CORRESPONDENCE (WITH CONTACT NO.):**
10. **EMAIL ADDRESS:**
11. **GATE SCORE WITH YEAR:**
12. **ACADEMIC BACKGROUND (STARTING FROM LATEST DEGREE UPTO SECONDARY):**



SL. NO.	QUALIFICATION	UNIVERSITY/ INSTITUTE/ BOARD	YEAR OF PASSING	SUBJECTS	PERCENT AGE/CGP A	DIVISION
1.						
2.						
3.						
4.						

13. **EXPERIENCE OF PROFESSIONAL WORK , IF ANY:**

SL. NO.	ORGANIZATION	DESIGNATION	DATE FROM	DATE TO
1.				

**APPLICATION FOR JRF POSITION IN THE PROJECT
DEVELOPING IMPROVED ALGORITHMS FOR INTELLIGENT VIDEO SURVEILLANCE**

2.				
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14. NAME, EMAIL ADDRESSES, AND CONTACT DETAILS OF TWO REFEREES:

REFEREE ID.	REFEREE NAME	DESIGNATION	EMAIL ADDRESS	CONTACT NUMBER
1.				
2.				

DECLARATION:

I hereby declare that I have carefully read and understood the instructions and particulars on this application and that all entries in this form as well as in attached sheets are true to the best of my knowledge

DATE

SIGNATURE

PLACE

Application Instructions

- Original certificates and self-attested copies of all certificates must be presented during the interview for verification.
- For further clarification, the candidate can discuss with the PI (Dr. Pratik Chattopadhyay) via email (pratik.cse@iitbhu.ac.in).
- The application should be according to the attached format. Incomplete application, in any form, will be rejected.
- Only shortlisted candidates will be intimated by email.
- No TA/DA will be paid for attending the interview.
- It is expected that the candidate will not leave in middle of the project.
- Make a single PDF file (Application form along with self-attested all relevant qualification certificates, mark-sheets, experience certificate, age proof, and any other documents in order) and email it to pratik.cse@iitbhu.ac.in with subject line Application for JRF-2021.
- Please refer to the institute website: www.iitbhu.ac.in/positions_available for further details and updates, if any.