

Date: 08-09-2026

## ADVERTISEMENT FOR THE POST OF JRF

Applications are invited from highly motivated and eligible Indian citizens for a Junior Research Fellow (JRF) position in a research project entitled “**AI-Based Wearable Multimodal Fall Detection System for the Elderly in Complex Indian Environments (AI-SAFER)**” at Thapar Institute of Engineering & Technology, Patiala.

### Project Details:

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| <b>Title of the Project</b>   | AI-Based Wearable Multimodal Fall Detection System for the Elderly in Complex Indian Environments (AI-SAFER)                                                                                                                                                                                                             |
| <b>Sponsored Agency</b>       | CEEMS TIET, Patiala and Virginia Tech. USA                                                                                                                                                                                                                                                                               |
| <b>Name of the Post</b>       | Junior Research Fellowship                                                                                                                                                                                                                                                                                               |
| <b>Vacancy</b>                | 01 Post                                                                                                                                                                                                                                                                                                                  |
| <b>Duration</b>               | 01 Year (Subject to extension of one more year based on performance)                                                                                                                                                                                                                                                     |
| <b>Principal Investigator</b> | <b>Dr. Aarti Bansal</b> , Assistant Professor (Research), Department of Electronics and Communication, Thapar Institute of Engineering and Technology, Patiala-147004, India.                                                                                                                                            |
| <b>Co-PIs</b>                 | (i) <b>Dr. Rajesh Khanna</b> , Professor, Department of Electronics and Communication, Thapar Institute of Engineering and Technology, Patiala-147004, India.<br>(ii) <b>Dr. Giovanni Andrea Casula</b> , Associate Professor, Department of Electrical and Electronic Engineering (DIEE), University of Cagliari, Italy |
| <b>Opportunity</b>            | The selected candidate can register for the full-time Ph.D. program at TIET (upon fulfilling admission norms)                                                                                                                                                                                                            |

### Other Details:

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| <b>1. Essential Qualification</b> | M. Tech. or ME in Electronics and Communication/ Computer Science and Engineering or relevant branches with a minimum of 60% marks or 7.0 CGPA. Applicants with a valid GATE/NET score will be given preference.                                                                                                                                                                                                                                                                                                                                                                                             |
| <b>2. Desirable</b>               | Candidate having prior experience in CST Studio Suite/ MATLAB with exposure to design /Antenna Design/RFID tag design, IoT or machine learning, will be considered an added advantage                                                                                                                                                                                                                                                                                                                                                                                                                        |
| <b>3. Fellowship</b>              | Rs. 30,000/- per month as per norms for Non-GATE/NET candidates<br>Rs. 45,000/- per month as per norms for GATE/NET candidates                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| <b>4. Important</b>               | <ul style="list-style-type: none"> <li>The assignment is purely temporary in nature, and it is co-terminus with the project.</li> <li>No TA/DA will be paid for appearing in the interview and/or joining the position.</li> <li>All terms &amp; conditions for this recruitment will be as per the guidelines of CEEMS TIET, Patiala, and reserves the right to cancel the recruitment without any prior notice.</li> </ul>                                                                                                                                                                                 |
| <b>5. How to Apply</b>            | Eligible and interested candidates should send their detailed Curriculum Vitae (CV) in the given format through e-mail to <b>Dr. Aarti Bansal</b> ( <a href="mailto:aarti.bansal@thapar.edu">aarti.bansal@thapar.edu</a> ) and <b>Dr. Rajesh Khanna</b> ( <a href="mailto:rkhanna@thapar.edu">rkhanna@thapar.edu</a> ), mentioning the subject as “ <i>Application for JRF position</i> ”. <i>The last date to receive the applications is 02 weeks (21<sup>st</sup> September, 2026) from the date of this notification. The shortlisted candidates will be informed about the interview date by email.</i> |

## APPLICATION FORM FOR THE POST OF JRF IN AI-Based Wearable Multimodal Fall Detection System

**Project Title:** *AI-Based Wearable Multimodal Fall Detection System for the Elderly in Complex Indian Environments (AI-SAFER)*

|     |                                                                                                                                                                                                      |                                       |                                       |                      |                  |       |
|-----|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------|---------------------------------------|----------------------|------------------|-------|
| 1.  | Name:                                                                                                                                                                                                |                                       | Affix recent passport size photograph |                      |                  |       |
| 2.  | Male/Female:                                                                                                                                                                                         |                                       |                                       |                      |                  |       |
| 3.  | Father/Spouse's Name:                                                                                                                                                                                |                                       |                                       |                      |                  |       |
| 4.  | Mother's Name:                                                                                                                                                                                       |                                       |                                       |                      |                  |       |
| 5.  | Address:                                                                                                                                                                                             |                                       |                                       |                      |                  |       |
|     | a) Communication address:                                                                                                                                                                            |                                       |                                       |                      |                  |       |
|     | b) Permanent address:                                                                                                                                                                                |                                       |                                       |                      |                  |       |
| 6.  | Email ID:                                                                                                                                                                                            | 7. Phone No:                          |                                       |                      |                  |       |
| 8.  | Date of birth:                                                                                                                                                                                       | 9. Marital status:                    |                                       |                      |                  |       |
| 10. | Nationality:                                                                                                                                                                                         | 11. Caste category (OP/SC/ST/OBC/PH): |                                       |                      |                  |       |
| 12. | Details of Universities/Institutions attended (from 10 <sup>th</sup> Standard onwards) (Self-attested copies of certificates and mark sheets/grade cards must be presented at the time of interview) |                                       |                                       |                      |                  |       |
|     | Degree                                                                                                                                                                                               | University/ College/Board             | Year                                  | Subject(s)           | % Marks/CGPA/CPI | Class |
|     |                                                                                                                                                                                                      |                                       |                                       |                      |                  |       |
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| 13. | Professional Qualifying Examination Passed:<br>GATE/NET/Equivalent: (Attested copy of certificate must be attached with the application)                                                             |                                       |                                       |                      |                  |       |
|     | Name of Examination                                                                                                                                                                                  | Subject                               | Rank /Marks /Score/Percentile         | Qualifying date/year | Valid upto       |       |
|     |                                                                                                                                                                                                      |                                       |                                       |                      |                  |       |
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| 14. | <b>Professional Experience (Teaching/Research/Industrial), if any</b>                                                                                                                                                                                |                 |                     |               |           |
|     | <b>Name of organization</b>                                                                                                                                                                                                                          | <b>Position</b> | <b>Type of work</b> | <b>Period</b> |           |
|     |                                                                                                                                                                                                                                                      |                 |                     | <b>From</b>   | <b>To</b> |
|     |                                                                                                                                                                                                                                                      |                 |                     |               |           |
|     |                                                                                                                                                                                                                                                      |                 |                     |               |           |
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| 15. | <b>Any other relevant information</b> (e.g., Publications, Patents, distinctions, achievements, recognitions, etc. if any): <div style="text-align: center; font-size: 100px; color: #f08080; opacity: 0.5;">ti</div>                                |                 |                     |               |           |
| 16. | <b>Declaration</b><br><br>I hereby declare that the entries made in this application are correct to the best of my knowledge and belief.<br><br>Place:<br><br>Date:<br><br><div style="text-align: right;">Signature and Name of the applicant</div> |                 |                     |               |           |