

INDIAN INSTITUTE OF TECHNOLOGY, ROORKEE
Computer Science & Engineering (CSE)

Dated: 06/11/2025

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 research project(s) under the Principal investigator (PI) Name: **Prof. Neetesh Kumar**, and Co-PI Name: **Prof. Raghavendra Singh Rohit**, CSE department, Indian Institute of Technology, Roorkee.

1. Title of project: **A Post-Quantum Secure ZKP-based Authentication Protocol for Connected and Autonomous Vehicles**
 2. Sponsor of the project: **MeitY**
 3. Project position(s) and number: **Junior Research Fellow(JRF)- 2, Project Assistant (PA)- 1**
 4. **Qualifications for JRF:** M.E. / M.Tech. in Information Technology/ Computer Science & Engg. / Software Engg./ AI and Data Science or equivalent. (OR) M.Tech. / ME in Electrical Engineering/ Electronics and Communications Engineering or equivalent. (OR) B.E. / B.Tech. in Computer Sc. & Engg. / Information Technology/ Mathematics and Computing or equivalent. (OR) Five years integrated BS-MS in mathematics and computing or equivalent. GATE paper qualification is in CS/EC.
- OR
- ONLY B.Tech.** students (without M.Tech.) in CSE or equivalent branches are eligible. Candidates from CFTIs with at least **8.5 CGPA** are exempted from the GATE requirement, while candidates from non-CFTI institutions must have at least **7.5 CGPA** and a valid GATE score.
5. **Qualifications for Project Assistant:** Bachelor's degree with relevant experience. Preference will be given to candidates having experience in embedded and networking systems.
 6. Emoluments: **a. JRF Rs. 37,000/-** and HRA (As per norms) **b. PA Rs. 25,000/-** and HRA (As per norms)
 7. Duration: **a. For JRF, initially 1 year extendable for 2 years based on performance, b. For PA, initially 6 months extendable for 2 years based on performance.**
 - Note: JRF selected candidates may get an opportunity for PhD admission.**
 8. Job description: **a.** JRF candidates with expertise in V2X communications, embedded systems, cryptography, connected autonomous vehicles, cybersecurity, hardware-level V2X protocol implementations, and excellent programming skills will be preferred. **b.** Candidates are also expected to possess strong report-writing skills, knowledge of embedded hardware, willingness to conduct fieldwork related to CAV research and visits, provide administrative assistance, and perform required physical work in the laboratory.
 9. Candidates before appearing for the interview shall ensure that they are eligible for the position they intend to apply.
 10. Candidates desiring to appear for the Interview should submit their applications with the following documents via email (icenjobs@gmail.com):
 - a. Detailed CV including chronological discipline of degree/certificates obtained
 - b. Experience including research, industrial field and others
 - c. Attested copies of degree/certificate and experience certificate.
 - d. Any research paper
 - e. Subject of the mail should be "**Application for the post of JRF/ PA in a project entitled (project name)**"
 11. Candidates shall bring along with them the original degree(s)/certificate(s) and experience certificate(s) at the time of interview for verification.
 12. Preference will be given to SC/ST candidates on equal qualifications and experience.
 13. Please note that no TA/DA is admissible for attending the interview.

The last date for application to be submitted to the office of Principal Investigator is **25 Nov 2025 by 5 PM**. The online interview date for JRF shall be informed to the shortlisted candidates by email. The interview for PA will be conducted on **28 Nov 2025, 10 AM**, Conference Room, CSE department, IIT Roorkee.

APPROVED

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Dr. Neetesh Kumar
Principal Investigator
CSE Department, IIT Roorkee

(Prof. Neetesh Kumar)

Name and signature of PI

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