

INDIAN INSTITUTE OF TECHNOLOGY, ROORKEE
Department of Electrical Engineering

Dated: 24-01-2025

ADVERTISEMENT TO FILL UP PROJECT POSITIONS*

Applications are invited from Indian nationals only for a project position as per the details given below for the research project under the Principal Investigator **Dr. Arnab Dey, Department of Electrical Engineering, Indian Institute of Technology Roorkee.**

1. **Title of project:** Development of Resilient and Trust-Based Cooperative Control Schemes for Multi-Lane Heterogeneous Vehicle Platooning in Mixed Traffic Scenarios
 2. **Sponsor of the project:** Science and Engineering Research Board (SERB)
 3. **Project position(s) and number:** One (01) Junior Research Fellow (JRF)
 4. **Qualifications:** M.Tech./M.E. in Electrical Engineering with specialization in Control Systems or allied fields with CGPA above 7.0 (on a 10.0 point scale) or above 70% aggregate irrespective of category; B.Tech./B.E. in Electrical Engineering and allied fields with CGPA above 7.5 (on a 10.0 point scale) or above 75% aggregate irrespective of category are also eligible. The candidate must have qualified GATE (relaxation is as per the Institute rules).
Desirable: Experience in Robot Operating System (ROS-2) and a solid background in Linear Algebra and Control Theory are highly desirable.
 5. **Emoluments:** Rs.37000/- per month (consolidated) or as per SERB (ANRF) norms
 6. **Duration:** 12 months
 7. **Job description:** The JRF will be involved in developing control strategies for multi-agent systems with a focus on solving control problems associated with vehicular platoons. Implementation of the control algorithms in ROS-based mobile robots needs to be carried out. The JRF will need to assist the PI in handling all relevant aspects to attain the research project objectives.
1. Candidates before appearing for the interview shall ensure that they are eligible for the position they intend to apply.
 2. Candidates desiring to appear for the Interview should submit their applications with the following documents to the office of Principal Investigator through email, by post or produce at the time of Interview:
 - Application in a plain paper with detailed CV including chronological discipline of degree/certificates obtained.
 - Experience including research, industrial field and others.
 - Attested copies of degree/certificate and experience certificate.
 3. Candidate shall bring along with them the original degree(s)/certificate(s) and experience certificate(s) at the time of interview for verification.
 4. Preference will be given to SC/ST candidates on equal qualifications and experience.
 5. Please note that no TA/DA is admissible for attending the interview.

Note: The selected candidate may get an opportunity for PhD admission subject to Institute rules.

The last date for application to be submitted to the Principal Investigator by email at arnab.dey@ee.iitr.ac.in is 10-02-2025 by 5 PM.

Note: The shortlisted candidates will be informed about the interview date, mode and venue through email.

Tel: +91-1332-28-4948 (O)

Email: arnab.dey@ee.iitr.ac.in

Approved

Abhishek
27/1/25

Dean

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ADY
24-Jan-25

(Arnab Dey)
Principal Investigator

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

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