

INDIAN INSTITUTE OF TECHNOLOGY, ROORKEE
(Name of Dept./Centre)

Dated: 27/02/2026

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: Dr Tharun Reddy Kumar Bollu...Dr. Sanhita Das), Dept./CentreElectronics and Communication (ECE), Civil Engineering... Indian Institute of Technology, Roorkee.

1. Title of project : ITMH-2615-ECD
2. Sponsor of the project: PATH RAKSHAK(GUARDIAN OF THE ROAD) A system for enhancing public transport safety with Real Time ambiance and driver monitoring
3. Project position(s) and number : 01
4. Qualifications B. Tech (ECE, CSE,etc)
5. Emoluments : Rs 25000
6. Duration : 13 months
7. Job description : PATH RAKSHAK is an intelligent safety monitoring system designed to enhance public transport security by continuously monitoring both the driver's condition and the vehicle's internal environment in real time.

The system integrates **computer vision, machine learning, and sensor-based monitoring** to detect driver drowsiness, distraction, abnormal behaviour, and unsafe in-vehicle conditions such as overcrowding, aggression, or emergency situations.

Responsibilities:

- Integrated OpenCV-based video processing pipelines.
- Applied machine learning models for behaviour classification.
- Processed and analyzed sensor data for ambiance monitoring.
- Designed alert mechanisms (audio/visual notifications)
- Developed real-time video analytics pipeline using OpenCV.
- Integrated camera modules and sensor hardware with Jetson platform.

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. Candidates 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.
(this is walk in interview)

The walk-in interview will be held online at **10 AM on April 6, 2026** (walk in interview through online link <https://meet.google.com/tku-zygb-vrq>)

 

Dr. Tharun Kumar Reddy Bollu

Tel: 01332285622, 9120966810

Fax:

Name and signature

of Principal Investigator

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

APPROVED


Dean

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