

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

Dated: ~~25~~/09/2025

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 consultancy/research project(s) under the Principal investigator (Name: Prof. R. K. Panigrahi), Dept. of ECE, Indian Institute of Technology, Roorkee.

1. Title of project: Development of an Adaptive AI model for landslide Early Warning using an in-house developed WSN-IoT monitoring system in Darjeeling and Sikkim Himalaya
2. Sponsor of the project: DIA-CoE, IIT Roorkee
3. Project position(s) and number: Junior research fellow -One
Qualifications: BTech/MTech in Electronics with GATE
4. Emoluments: 37000+9% HRA
5. Duration: Three years
6. Job description:
 - Development of AI model environment runtime.
 - Research and development on sensor nodes, coordinator nodes, and sensor networking.
 - Complete algorithm design.
 - Complete development of communication strategies, data processing/ computation strategies, and database management design.
 - Development of libraries of AI algorithms for landslide prediction using historical and landslide data
 - Integration of real-time data with the AI algorithm.
 - Integration of IMD data with AI algorithms for Landslide forecast.
 - Interactive web-based GUI creation for real-time monitoring of nodes.
 - Android app development.
 - Web Server Development
 - Database management in remote cloud servers.
1. Candidates before appearing for the interview shall ensure that they are eligible for the position they intend to apply.
 - Candidates desiring to appear for the Interview should submit their applications with the following documents to the office of Principal Investigator through email to rajib.panigrahi@ece.iitr.ac.in
 - Application in a plain paper with detailed CV including chronological discipline of degree/certificates obtained.
 - Experience including research, industrial field and others.
2. Preference will be given to SC/ST candidates on equal qualifications and experience.



Note: The selected candidate may get an opportunity for PhD admission.

The last date for application to be submitted to office of Principal Investigator is 8th Oct 2025 5 PM.

The interview will be held at 4 pm on 9th Oct 2025 in online mode.

Tel: 7579467695

Email: rajib.panigrahi@ece.iitr.ac.in

Rajib Panigrahi
26/09/2025
Name and signature
of Principal Investigator

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

APPROVED
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Sponsored Research & Industrial Consultancy
Indian Institute of Technology Roorkee
Jodhpur 347 007 (INDIA)
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