

INDIAN INSTITUTE OF TECHNOLOGY ROORKEE

(Centre of Excellence in Disaster Mitigation & Management)

Dated: 18/05/2026

ADVERTISEMENT TO FILL UP PROJECT POSITIONS*

Applications are invited from Indian nationals only for project positions(s) as per the details given below for the consultancy /research project(s) under the Principal investigator (Name Dr. Kamal), Center for Excellence in Disaster Mitigation & Management Indian Institute of Technology, Roorkee.

1. Title of project:- Establishment of Earthquake Early Warning System for Uttarakhand (**USD-1077-DMC**)
2. Sponsor: **USDMA, Dehradun Uttarakhand**
3. Position(s) details for advertisement:

S.NO	Name of Positions	Qualifications	Monthly emoluments	Duration	Job Description & Desirable Qualification
1	Research Scientist (1)	<p>Essential Qualification: Ph.D / M.Tech. in Disaster Mitigation & Management / Earthquake Engineering / Earth Sciences or equivalent</p> <p>Desired Experience: a) Ph.D. with a minimum of 2 year or M.Tech with 4 years of experience in earthquake early warning systems. b) Working experience on Earthworm platform c) PhD candidates will be given preference. d) Research/ Projects/ Professional experience will be counted</p>	80,000/- to 1,00,000 + HRA	Till 31.12.2026 and may be extended further	Appendix- A

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2	Project Associate (2)	<p>Essential Qualification B.Tech in any stream /M.Sc. in Computer Sciences or equivalent</p> <p>Desired Experience: Working Knowledge in network routers, switches and cloud computing Working knowledge of Website development , Mobile application development and remote network accessing</p>	40,000/- to 60,000/- + HRA	Till 31.12.2026 and may be extended further	Appendix- B
3	Sr.Project Assistant (Technical) (1)	<p>Essential Qualification Diploma(3 years duration) or graduate</p> <p>Desired Experience Minimum of 7 year experience in EEW siren installation and maintenance. Knowledge in report preparation using MS Office suite.</p>	40,000/- to 44,000/- + HRA	Till 31.12.2026 and may be extended further	Appendix- C
3	Project Assistant (Technical) (1)	<p>Essential Qualification Diploma(3 years duration) in Electronics or B.Tech. in Electronics and Communications.</p> <p>Desired Experience 3year hands-on experience fabricating electronic devices such as in EEW sensor/siren installation and maintenance. Knowledge in report preparation using MS Office suite.</p>	20,000/- to 40,000/- + HRA	Till 31.12.2026 and may be extended further	Appendix- C



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time data transmission to the laboratory. The role includes configuring and managing network routers, switches, and related hardware to maintain data integrity and reliability. The candidate will assist the field team in resolving network-related issues of sirens and sensors. The candidate will also be responsible for the development, maintenance, and timely updates of project-related websites, mobile applications, and social media platforms.

Desirable Qualification

- Experience in network administration, specifically with managing networking infrastructure (routers, switches, firewalls, etc.) and proficiency in configuring and managing network routers, switches, and other hardware components essential for uninterrupted network operations..
- In-depth knowledge and experience with networking protocols, routing, and network security.
- Strong understanding of cloud computing and remote access solutions to ensure the reliable transmission of real-time data.
- Experience in the development and management of websites, mobile applications, and social media platforms, .
- Familiarity with software tools for network monitoring and diagnostics to troubleshoot and resolve issues efficiently.
- Excellent communication skills, with the ability to work collaboratively across teams and effectively communicate technical information.
- Willingness to travel for field installations and provide on-site technical support as needed.

Appendix-C

Project Assistant (Technical)

Job Description

The Project Assistant (Technical) will be responsible for conducting field trips to install, maintain, and repair Earthquake Early Warning (EEW) sensors and sirens. The role requires expertise in the proper mounting and installation of sensors and sirens, ensuring their functionality and performance. The candidate will also be tasked with preparing detailed technical reports using the MS Office suite, and maintaining accurate documentation of all maintenance and repair activities. Additionally, the position involves

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troubleshooting and repairing hardware components related to the sensors and sirens. The candidate may be required to support 24/7 monitoring to ensure the continuous operation of the system, including addressing any issues that arise with the sensors or sirens. The candidate should demonstrate strong technical skills to support the operational needs of the project, including expertise in the fabrication of siren units and knowledge of Raspberry Pi for system integration and troubleshooting.

Desirable Qualification

- Proven experience in the fabrication and assembly of siren units.
- Familiarity with Raspberry Pi.
- A solid understanding of electrical and hardware systems related to EEWS.
- Strong technical aptitude and problem-solving skills in instrument repairs and maintenance.
- Ability to work in a fast-paced environment, potentially requiring 24/7 monitoring and immediate response to system issues.
- Proficiency in the use of MS Office suite for report preparation and documentation.
- Previous experience with sensor and siren installations is highly desirable.
- Willingness to travel for field installations



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Research Scientist

Job Description

The position involves overseeing the maintenance and development of the earthquake early warning (EEW) server to ensure optimal performance and reliability. Key responsibilities include managing the maintenance of existing siren and sensor units and providing technical guidance to the team during the installation of sensors and sirens. The role also involves driving the expansion and diversification of the EEW system. Furthermore, the candidate will be required to prepare educational materials and deliver lectures to enhance public awareness regarding earthquake early warning systems. Additional duties include maintaining a comprehensive earthquake catalog, retrieving seismic data for all recorded events within the instrumented region, and conducting research to improve the efficacy of existing early warning algorithms.

Desirable Qualification


- Prior experience in server management and real-time data processing systems.
- Proficiency in working with seismic sensors, sirens, and other field equipment related to earthquake early warning systems.
- Familiarity with the Earthworm platform for seismic data acquisition and processing.
- Proficiency in programming languages (e.g. C++, MATLAB) for data analysis
- Familiarity with maintaining and analyzing earthquake catalogs and retrieving seismic data.
- Ability to conduct independent research with excellent verbal and written communication skills.
- Strong organizational and communication skills to coordinate effectively with technical teams and stakeholders.

Project Associate

Job Description

The Project Associate will oversee the networking operations of the project, ensuring the maintenance and functionality of BSNL and SWAN networks to facilitate uninterrupted real-

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The Candidates who fulfill the above qualifications/ experience should appear for the respective post.

1. Candidate before appearing for the interview shall ensure that they are eligible for the position they intend to apply.
2. Candidate 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 Interview:
 - Application in a plain paper with detailed CV including chronological discipline of degree/certificates obtained.
 - Experienced including research, industrial field and others.
3. Candidate shall bring along with them the original degree(s)/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.

The walk in interview will be held at **Centre of Excellence in Disaster Mitigation and Management** on **02- June-2026** at **10:00 am** (to be given only for walk in interview)

Tel: 1332286314



Dr.Kamal

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

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