

SRIC/06

**INDIAN INSTITUTE OF TECHNOLOGY, ROORKEE
DEPARTMENT OF HYDROLOGY**

Dated: 09th Sept 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 research project under the Principal Investigator **Prof. Ashutosh Sharma**, Dept. of Hydrology, Indian Institute of Technology, Roorkee.

1. **Title of project:** Leveraging NCMRWF Weather Forecasts for Enhanced Streamflow Forecasting with Deep Learning
2. **Sponsor of the project:** Indian Institute of Tropical Meteorology (IITM), Pune under Monsoon Mission - III
3. **Project position(s) and number:** Research Associate – I (RA-I) – 1 No.
4. **Qualifications:** Ph.D. degree in Hydrology/Water Resources Engineering/Civil Engineering (with thesis focused on hydrology/climate change) with Engineering background at Masters (M.Tech. or M.E.) and U.G. level. The candidate should have published **at least three papers in Q1/Q2 journals as first author** on relevant topics.
5. **Emoluments:** Rs. 58,000/- per month + H.R.A. (as applicable)
6. **Duration:** up to the completion of the project (May 2028 tentative)
7. **Job description:** The project focuses on utilizing weather forecasts from the National Centre for Medium Range Weather Forecasting (NCMRWF) for streamflow forecasting through data-driven hydrological modeling. The selected candidate is expected to possess the following qualifications:
 - **Theoretical Knowledge:** Good understanding of hydrology, hydrological modeling, statistical analysis, machine learning techniques, and Geographic Information Systems (GIS).
 - **Practical Skills:** Hands-on experience with machine learning, hydrological modeling, data analysis, and GIS. Proficiency in programming, particularly in Python or MATLAB, is essential.
 - **Technical Writing:** Demonstrated experience in preparing technical documents such as reports and research papers.

Application Process

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.

The last date for application to be submitted to office of Principal Investigator isby 5 PM:

(not applicable for walk-in interview)

The interview will be held at 05:00 PM on 23rd Sept. 2026 at Committee Room, Department of Hydrology.

APPROVED

Tel: 01332 284896

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Ashutosh Sharma
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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