

INDIAN INSTITUTE OF TECHNOLOGY, ROORKEE
Department of Hydrology

Dated: 15-9-2025

ADVERTISEMENT TO FILL UP PROJECT POSITIONS*

Applications are invited from Indian nationals only for a project position as per the details given below for a research project under the Principal Investigator (PI) Prof. Manoj Kumar Jain and Co-PI Prof. Ashutosh Sharma at Department of Hydrology, Indian Institute of Technology, Roorkee.

1. **Title of project:** Comprehensive hydrological assessment of impacts of climate change on water resources in Sone River basin.
2. **Sponsor of the project:** DoWR, RD&GR, Ministry of Jal Shakti, Govt.
3. **Project position(s) and number:** Junior Research Fellow (01)
4. **Qualifications:** M.E./M.Tech./M.S. by research in Hydrology/Water Resources Engineering/Agricultural Engineering (Soil & Water Engineering) with GATE qualified.
5. **Emoluments:** 37,000 per month + HRA (as applicable)
6. **Duration:** up to the project completion (January 2028 tentative)
7. **Job description:** The project aims to quantify the impacts of climate change on meteorological processes and hydrology of the Sone River basin. The candidate is expected to have:
 - Knowledge in large data handling (satellite data, hydro-meteorological data, climate data etc.) with working knowledge of GIS, multispectral remote sensing, data processing and analysis.
 - Sound knowledge of hydrological models such as SWAT or VIC or WEAP.
 - Sound knowledge of handling big data, APIs, Google Earth Engine and machine learning algorithms.
 - Strong programming skills in R/Python/MATLAB is must.
 - Ready to carry out extensive fieldwork for hydrometeorological data collection, field surveys, etc.
 - Experience in writing papers/patents/technical reports etc.

Application Process:

1. Candidates, before applying, 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 (as a single PDF file) with the following documents to Principal Investigator through email (manoj.jain@hy.iitr.ac.in) with the subject: **Application for JRF MoJS project:**
 - Application on plain paper with a detailed CV including a chronological discipline of the degrees/certificates obtained.
 - Experience certificate including research, industrial field and others.
 - Self-attested copies of degree/certificate and experience certificate.
3. Only shortlisted candidates will be called for an interview. The interview will be online. Candidate may be asked to show 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. **Note: The selected candidate may get an opportunity for PhD admission.**
6. The last date for application to be submitted to the Principal Investigator is 1 October 2025 by 5 PM.

The interview date will be conveyed to selected candidates by email after shortlisting.

Tel: 01332 285845

Email: manoj.jain@hy.iitr.ac.in

(Prof. Manoj Kumar Jain)
Name and signature
of Principal Investigator

APPROVED

Dean

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