WRD-7583/26-27

26 NOV 2026

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**INDIAN INSTITUTE OF TECHNOLOGY, ROORKEE**
**(Department of Water Resources Development & Management)**

## 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. Deepak Khare), Dept. of Water Resources Development and Management, Indian Institute of Technology, Roorkee.**

1. Title of project: **Stream flow Forecasting for Sustainable Water Management in the Nethravathy River Basin from Western Ghats of Karnataka**
2. **Sponsor of the project:** Visvesvaraya Jala Nigam Limited, WRD Karnataka
3. **Project position(s) and number**: Project fellow – 1 Nos.
4. **Qualifications and Experience**: The candidate should possess a **Ph.D**. in Remote Sensing & GIS, Hydrology, Water Resources, Geoinformatics, Environmental Science or a closely related discipline, with a Master's degree in Water Resources, Remote Sensing & GIS, Geoinformatics an allied field. The candidate must have minimum **6 years of relevant research/professional experience** in GIS, Remote Sensing, hydrology, watershed assessment and computational modelling with AI-Python/R.
   The candidate should have practical expertise in hydro-climatic and climate-change data analysis, including handling, preprocessing and analysis of CMIP6 climate-model datasets, historical and projected rainfall/temperature data, climate-model outputs and assessment of climate-change impacts on watershed hydrology using climate change data. Experience with **Google Earth Engine (GEE)** for satellite-data processing, Remote Sensing, land-use/land-cover mapping and large-scale geospatial analysis is required. Must know processing of **SAR Data of Sentinel**. The candidate should possess demonstrated hands-on expertise in SWAT/ArcSWAT and SWAT-CUP, including watershed simulation, streamflow/runoff modelling, calibration and validation. Experience in hydrological modelling of ungauged catchments. The applicant should preferably have at **least 3** Scopus-indexed research papers.
5. Emoluments: **Rs. 80000 per month + HRA**
6. Duration: Initially for 01 year (or up to duration of the project)
7. Age limit: 45 years (**As on 31 December 2026**)
8. **Job description:** The selected candidate will undertake AI/ML-based hydrological and geospatial modelling; Python/R-based scientific computing; development of project-specific scientific software and tools; automated GIS and data-processing workflow development; Google Earth Engine-based Remote Sensing analysis; processing and analysis of CMIP6 and hydro-climatic datasets; climate-change impact assessment; HEC-RAS-based hydraulic analysis; watershed delineation and database development; preparation of scientific reports and publications; and SWAT model setup, simulation, calibration and validation.
9. **Note:**
   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 for the above positions should submit their applications with the following documents to the office of Principal Investigator through email:

- Application in a plain paper with detailed CV including chronological discipline of degree/certificates obtained.
- Experience including research, industrial field and others.
- Self-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.

The **INTERVIEW** will be held at Department of Water Resources Development & Management on Thursday **the 10th December 2026 at 15:00 Hrs**.

**Tel: 01332-28-5393/9412990808**
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26/11/2026
**Prof. Deepak Khare**
**(Principal Investigator)**
**WRD-7583/26-27**

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

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15/9/26 – 31/12/26