

**INDIAN INSTITUTE OF TECHNOLOGY, ROORKEE
DEPARTMENT OF HYDRO AND RENEWABLE ENERGY**

ADVERTISEMENT TO FILLUP PROJECT POSITION

Applications are invited from Indian nationals only for project position(s) as per the details given below for the research project under Prof Himanshu Jain, Department of Hydro and Renewable Energy, Indian Institute of Technology Roorkee.

1. Title of project: Development of a Real Time Digital Simulator for Pumped Storage Plants
2. Sponsor of the project: NHPC Ltd.
3. Project position(s) and number: Project Fellow - 1 nos.
4. Qualifications and Experience:
(i) Project Fellow: PhD in electrical engineering (power systems) or PhD in Energy (power systems/hydropower)
5. Emoluments: Project Fellow: Rs. 40,000/- to Rs. 1,00,000/- + HRA per month
6. Duration: 1 year (extendable up to 2 years or project duration, whichever is earlier)
7. Job description:
 - The project staff will develop models and algorithms for transient and steady state modeling of pumped storage plants (PSPs) for use in real time simulations. The staff will also work with other teams for development and commissioning of a production grade digital real-time PSP simulator. Writing computer programs, reports, and research papers will be essential job functions. Organizing meetings/workshops/conferences in Roorkee and other places and project-related travel are other activities that the staff may be required to undertake.
 - Experience in using software such as Matlab/Simulink for modeling steady state and transients in electric power systems and/or hydraulic turbines and/or hydropower water conductor systems is highly desirable
 - Experience of working with SCADA system is desirable
 - Good English writing skills are desirable

Conditions:

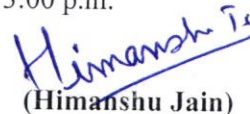
- i. Candidates before appearing for the interview shall ensure that they are eligible for the position they intend to apply.
- ii. ***Interested candidates must submit their application and upload the requisite documents through email provided in the advertisement, on or before Sept 24, 2026***
- iii. 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.
 - **1 A4 page write-up in 11-point Times New Roman font in own language on your understanding of real-time simulations**
- iv. Candidate shall bring along with them the original degree(s)/certificate(s) and experience certificate(s) at the time of interview for verification.
- v. Preference will be given to SC/ST candidates on equal qualifications and experience.
- vi. Please note that no TA/DA is admissible for attending the interview.

The walk-in interview will be held in HRED Committee Room on Sep 24, 2026 at 3:00 p.m.

APPROVED

Email: himanshu.jain@hre.iitr.ac.in


Dean


(Himanshu Jain)

PI and Associate Professor, Dept. of Hydro and
Renewable Energy

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

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Indian Institute of Technology Roorkee
Roorkee-247 667 (INDIA)

 09/08/26
 7/7/26
 10/9/26