

**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, PI and Assistant Professor, 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 (No.: NHP 2810-HRD 25-26)
2. Sponsor of the project: IIT Roorkee
3. Project position(s) and number: Project Fellow / Research Associate - 2 nos.
4. Qualifications and Experience:
 - (i) Project Fellow: PhD in Power Systems / Hydropower Engineering
 - (ii) Research Associate: Master degree in (a) electrical engineering (Power System) or (b) mechanical engineering (transient fluid mechanics) or (c) hydropower engineering
5. Emoluments: Project Fellow: Rs. 40,000/- to Rs. 1,00,000/- + HRA / Research Associate: Rs. 30,000/- to Rs. 75,000/- + 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 for development and commissioning of a production grade digital real-time PSP simulator. Organizing meetings/workshops/conferences in Roorkee and other places and project-related travel are other activities that the staff will 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 desirable.
 - Experience of working with SCADA system is desirable.

Conditions:

- i. Candidates before appearing for the interview shall ensure that they are eligible for the position they intend to apply.
- ii. 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.
- iii. Candidate shall bring along with them the original degree(s)/certificate(s) and experience certificate(s) at the time of interview for verification.
- iv. Preference will be given to SC/ST candidates on equal qualifications and experience.
- v. Please note that no TA/DA is admissible for attending the interview.

The last date for application to be submitted to office of Principal Investigator is March 10, 2026 by 5 PM.

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

Himanshu Jain
(Himanshu Jain) 17/2/26
PI and Assistant 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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Sponsored Research & Industrial Consultancy
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Roorkee-247 667 (INDIA)
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