



No. HRED/R-327/398
Dated: May 04, 2026

INDIAN INSTITUTE OF TECHNOLOGY, Roorkee
DEPARTMENT OF HYDRO AND RENEWABLE ENERGY

ADVERTISEMENT TO FILLUP POSITION

Application 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 – 02 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 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. Job Description:
 - The project staff will develop models and algorithms for transient and steady state modelling of pumped storage plants (PSPs) for use in real time simulation for development and commissioning of a production grade digital real time PSP simulator. Organizing meetings/workshop/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 modelling steady state and transients in electric power systems and/or hydraulic turbines and/or hydropower water conductor system 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 advertisement number and project title mentioned along 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 Coordinator CERA is May 16, 2026 by 5 PM.

APPROVED

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Himanshu Jain

PI and Assistant Professor

Sponsored Research & Industrial Consultancy
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*To be uploaded on IIT Roorkee website and copy may be sent to appropriate address by PI for wider circulation.