

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 consultancy/research project(s) under the Dr Arun Kumar, Principal investigator, Department of Hydro and Renewable Energy, Indian Institute of Technology, Roorkee.

1. Title of project: Centre of Excellence – Research and development of Ultra Low Head (ULH) and Hydrokinetic Turbines and performance prediction of small hydro turbine model/projects
2. Sponsor of the project: Ministry of New & Renewable Energy (R&D Division)
3. Project position(s) and number: Research Associate - 2 nos. [(a) ULH turbine development, (b) Hydro Kinetic turbine development (c) Development of CFD guidelines]
4. Qualifications and Experience: M. Tech in Aerospace/Chemical/Electrical/Mechanical/Mechatronics/ Hydropower/Tribology Engineering plus one-year experience of CFD work for hydro turbine / Pump OR related areas
5. Emoluments: Rs. 30,000/- to Rs. 75,000/- + HRA per month
6. Duration: 1 year or up to project completion date (project completion period three years)
7. Job description:
 - a. Carry out literature survey and collection of data from site related to hydropower potential, assistance in setting up of laboratory, CFD Simulation, design and testing of model and prototype of ULH turbine
 - b. Carry out literature survey and collection of data from site related to hydropower potential, assistance in setting up of laboratory, CFD Simulation, design and testing of model and prototype of Hydro Kinetic turbine
 - c. Carry out CFD simulation hydro turbine for development of standard procedure and guidelines, carry out model test of Francis turbine, analyzing the data, report preparation
 - d. Carry out meshing of 3D complex geometries, carry out post processing the large data using Python/Matlab/Octave etc., scientific paper writing.

Conditions:

- vi. Candidates before appearing for the interview shall ensure that they are eligible for the position they intend to apply.
- vii. 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.
- viii. Candidate shall bring along with them the original degree(s)/certificate(s) and experience certificate(s) at the time of interview for verification.
- ix. Preference will be given to SC/ST candidates on equal qualifications and experience.
- x. 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 Oct 30, 2023 by 5 PM.

(ARUN KUMAR)
Principal Investigator

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