

**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 Prof 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: Project Fellow-2 nos. ((a) ULH turbine development, (b) Hydro Kinetic turbine development, and (c) Development of CFD guidelines)
4. Qualifications:  
Educational: Ph.D. in Aerospace/Chemical/Mechanical/Mechatronics/Civil/Tribology/Hydropower Engineering having CFD/design based work in hydro turbine / Pump OR related areas  
OR M Tech in Aerospace/Chemical/Mechanical//Mechatronics/Civil/ Tribology/Hydropower Engineering with 3 years' experience in CFD/design of hydro turbine/pump OR related areas
5. Emoluments: Project Fellow : Rs. 40,000/- to Rs. 1,00,000/- + HRA per month  
(Emolument shall be fixed as per suitability and experience of the candidate)
6. Duration: 1 year or up to project completion date (project completion period three years)
7. Job description:
  - a. Setting up of laboratory & design of ULH turbine, CFD simulation & carry out design and model test of ULH turbine, analyzing the data, report preparation
  - b. Setting up of laboratory & design of hydro kinetic turbine, CFD simulation & carry out design and model test of hydro kinetic turbine, analyzing the data, report preparation
  - c. Carry out CFD simulation of Francis turbines for development of standard procedure and guidelines and model testing.
  - d. Carry out meshing of 3D complex geometries, carry out postprocessing the large data using Python/ Matlab/Octave etc., scientific paper writing.

**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 Oct 31, 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.