

**INDIAN OF TECHNOLOGY, ROORKEE**  
**(Department of Civil Engineering)**

**SRIC/06**

Dated: 07/02/2024

**ADVERTISEMENT TO FILL UP PROJECT POSITIONS**

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 principal investigator (Name: Dr. R. Vinnarasi), Dept. of Civil Engineering, Indian Institute of Technology, Roorkee.

1. **Title of project:** Design Flood Estimation for Resilient Hydraulic Structures Under Changing Climate and Environment.
2. **Sponsor of the project:** SERB, New Delhi
3. **Project position(s) and number:** JRF — 01
4. **Qualifications:** B. E in Civil, Agricultural, or Environmental Engineering or equivalent and M. E/M. Tech/ M.S (by research) with GATE qualified in Hydrology/ Hydraulics/ Water Resources Engineering/ Water Resources Development and Management/ Irrigation and Drainage Engineering/ Watershed Management/ Irrigation Water Management/Integrated Water Resources Management. Final year M. Tech students of the above-mentioned specializations are eligible to apply for the post.
5. **Emoluments:** Rs. 31,000/month +HRA (as per institute norms) and can be extended for 1 year based on performance
6. **Duration:** 1 Year (can be extended to 1 year based on performance)
7. **Job description:** This project aims to develop a nonstationary extreme event modeling framework for designing flood estimation under changing climates and environments. The person appointed to this position is expected to: 1) detect the signature of nonstationary in the characteristics of extreme flow, 2) prepare and identify the potential covariates like teleconnections, urbanization, etc., 3) develop a generic framework for nonstationary multivariate frequency analysis, 4) estimate time-varying return level, and 5) perform any other task assigned by PI.
8. Knowledge and experience in extreme event analysis, Arc GIS, programming, statistical modeling, and handling spatiotemporal climatic data are preferable.

**NOTE:**

1. Candidates, before appearing for the interview, shall ensure they are eligible for the position they intend to apply for.
2. Candidates desiring to appear for the Interview should fill in the details below before 25th February 2024.
3. Link <https://shorturl.at/cikvY>
4. Necessary Documents to be uploaded.

- CV

- chronological discipline of degree/certificates
  - Mark sheets
  - Experience including research, industrial field, and others.
5. Preference will be given to SC/ST candidates on equal qualifications and experience.
  6. Please note that no TA/DA is admissible to attend the interview.
- Note: The selected candidate may get an opportunity for Ph.D. admission.**
6. The interview date and other details will be intimated to the short-listed candidates.

Tel: 01332-284951

Email: [vinnarasi@ce.iitr.ac.in](mailto:vinnarasi@ce.iitr.ac.in)

\* It is to be uploaded on the IIT Roorkee website, and a copy may be sent to appropriate addresses by PI for broader circulation.

R. VINNARASI

*(Signature)*

Name and Signature  
of Principal Investigator

Dr. R. Vinnarasi  
Associate Professor  
Department of Civil Engineering  
Indian Institute of Technology  
Roorkee - 241 601, Uttarakhand

APPROVED

*(Signature)*  
3/2/24

डीन (सिक)/(Dean SRIC)  
भा. प्रौ. सं. रुड़की/IIT Roorkee

*(Signature)*  
09.02.24

*(Signature)*  
9/2/24