

**INDIAN INSTITUTE OF TECHNOLOGY, ROORKEE**  
**Department of Civil Engineering**

Dated: 9.11.2022

**ADVERTISEMENT FOR RECRUITMENT OF JUNIOR RESEARCH FELLOW**

Applications are invited from Indian nationals only for project position as per the details given below for the research project under the Principal investigator Dr Shubhankar Roy Chowdhury and Co-PI Dr Sudakshina Dutta, Civil Engineering, Indian Institute of Technology, Roorkee.

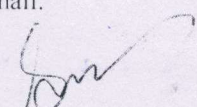
1. Title of project: **Computational multiscale modelling as a virtual experimental setup for prediction of elastic and inelastic response of unidirectional fibre-reinforced polymer composites.**
2. Sponsor of the project: Armament Research Board, DRDO, New Delhi
3. Project position(s) and number: Junior Research Fellow, one (1) in number
4. Qualifications:
  - (a) Master's Degree (M. Tech. / M.E.) in Structural Engineering/ Earthquake Engineering/ Aerospace Engineering/ Mechanical Engineering or related areas. Students in the final semester of their Master's degree are also eligible.
  - (b) The candidate must be GATE qualified.
5. Emoluments: 31,000 INR per month + HRA (as per IITR Rule)
6. Duration: Two years  
**(After two years, the candidates opting for PhD will get funding opportunity from other sources)**
7. Job description:
  - The candidate will be involved in developing mathematical models of complex mechanics of FRP composites, writing high-performance codes to implement those model, and writing scientific articles. Thus the candidate should have the following skills.
    - Strong background in mechanics of composites and Finite Element Method
    - Proficiency in programming for numerical methods in any language (C++, Fortran, Python)
    - Good writing and communication skills
1. Before appearing for the interview, candidates shall ensure that they are eligible for the position.
2. Candidates should send their applications with the following documents to the email of the Principal Investigator (shubhankar.rc@ce.iitr.ac.in)
  - 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, experience certificate and GATE scorecard.
3. Preference will be given to SC/ST candidates with equal qualifications and experience.
4. The interview will be conducted in an online mode.

**Note: The selected candidate may get an opportunity for PhD admission at IIT Roorkee.**

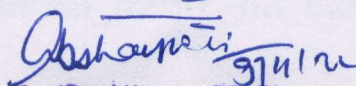
The last date for application to be submitted to the office of the Principal Investigator is **10.12.2022** by 5 PM.

The shortlisted candidates will be informed about the interview date through email.

Tel: 9945675112

  
**Dr Shubhankar Roy Chowdhury**  
Principal Investigator

Email: shubhankar.rc@ce.iitr.ac.in

**APPROVED**  
  
डीन (सिक)/(Dean SRIC)  
भारतीय प्रौद्योगिकी संस्थान, रुड़की/IIT Roorkee