

INDIAN INSTITUTE OF TECHNOLOGY, ROORKEE
(Department of Mechanical and Industrial Engineering)

Dated: May 02, 2023

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 (**Prof. Indra Vir Singh**), Dept./Centre: **Department of Mechanical and Industrial Engineering, Indian Institute of Technology, Roorkee.**

1. Title of project: **Effect of Sequence of Loading on the Fatigue Life of GFRP Composites**
 2. Sponsor of the project: **AR&DB, DRDO, Delhi**
 3. Project position(s) and number: **JRF (02)**
 4. Qualifications
 - (a) **ME/M.Tech in Mechanical Engg./Machine Design/Applied Mechanics/Aerospace Engg./Equivalent**
 - (b) **The candidate must be GATE qualified.**
 5. Emoluments: **Rs. 31,000/month + HRA (as per Institute Rules)**
 6. Duration: **24/04/2023 – 23/04/2026 (3 Years)**
 7. Job description

The aim of the project is to assess the effect of loading sequence on the fatigue life of the bi-directional GFRP composites. To achieve this, both experimental and numerical studies would be performed. The fatigue behavior of GFRP composites would be investigated experimentally under tension-compression & tension-tension loading sequence to model the material's cyclic behavior. A numerical framework would be developed to predict the fatigue life of the GFRP laminated composites.
 1. Candidates before appearing for the interview shall ensure that they are eligible for the position. Only the shortlisted candidates will be notified through email for interview.
 2. Candidates should submit their applications with the following documents to the office of Principal Investigator through email as a **Single pdf** file in following order:
 - 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.
 3. Preference will be given to SC/ST candidates on equal qualifications and experience.
 4. Interview will be held online through Webex or MS Teams.
- Note: Selected candidate may get an opportunity to pursue PhD (Once project is over, he/she will be given MHRD fellowship as per Institute Policy)**

The last date for application to be submitted by email to Principal Investigator is **May 24, 2023 by 5 PM.** The interview will be held online on **May 29, 2023.** The shortlisted candidates will be informed about the interview through email.

APPROVED

(Signature)
21/5/23
डीन (सिक)/Dean SRIC
भा. प्रौ. सं. रुड़की/IIT Roorkee
10/04/23
21/5/23

(Signature)
DR. INDRA VIR SINGH
Professor
Dept. of Mech. & Ind. Engineering
Indian Institute of Technology Roorkee
Roorkee, Uttarakhand, INDIA
Name and signature of Principal Investigator
24/5/23

Tel: +91-1332-285888 / 9837351804

Email: ivsingh@me.iitr.ac.in / ivsingh@gmail.com

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