

**INDIAN INSTITUTE OF TECHNOLOGY, ROORKEE**  
**(Name of Dept./Centre)**

Dated: 29/09/2020

**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: Shailesh Ganpule), Dept./Centre Mechanical and Industrial Engineering Indian Institute of Technology, Roorkee.

1. Title of project: Dynamic modelling and simulations of human body subjected to mechanical loads during spaceflight and operations in space
2. Sponsor of the project: Indian Space Research Organization (ISRO)
3. Project position(s) and number: Senior Research Fellow (SRF), 01. The position will be converted to Junior Research Fellow (JRF) if suitable SRF candidate is not found.
4. Qualifications:
  - (a) MTech or equivalent degree in Mechanical Engineering or Applied Mechanics.  
M.Tech. degree in Aerospace or Civil or other engineering disciplines may be considered for research areas consistent with the academic and project background.
  - (b) Minimum 02 years of experience after MTech for SRF position.
  - (c) Candidate should be GATE qualified
5. Emoluments: Rs. 35,000/- per month + HRA (for SRF); Rs. 31,000/- per month + HRA (for JRF);
6. Duration: 1 year and extendable upto the duration of the project
7. Job description:

Project involves work in the area of computational mechanics using full body human models. Proficiency in FEA and programming using Matlab is desired. Experience with commercial FEA software LS-Dyna is desired but not essential. Strong theoretical knowledge in mechanics of materials, continuum mechanics, vibration, and fracture mechanics are desired but not essential.

1. Candidates before appearing for the interview shall ensure that they are eligible for the position they intend to apply.
2. Candidates desiring to appear for the Interview should submit their applications with the following documents to the office of Principal Investigator through email:
  - 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.
  - marksheets of each semester of BTech and MTech (non-attested are acceptable)
  - Names and contact details of two references including email and phone number

3. Candidate shall bring along with them the original degree(s)/certificate(s) and experience certificate(s) at the time of interview for verification.
4. Preference will be given to SC/ST candidates on equal qualifications and experience.
5. Please note that no TA/DA is admissible for attending the interview.

Note: The selected candidate may get an opportunity for PhD admission.

**The last date for application to be submitted to office of Principal Investigator via email is 16/10/2020 by 5 PM.**

  
29/09/20

Name and signature  
of Principal Investigator

S.G. Ganpule

Tel: 01332-28-4885

Email: ganpule@me.iitr.ac.in

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

Approved

Manish

01/10/2020.

मुख्यालय (SRIC) Dean (SRIC)

  
30.9.20

