

**INDIAN INSTITUTE OF TECHNOLOGY, ROORKEE**  
**Department of Metallurgical and Materials Engineering**

Dated: 27/04/2026

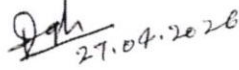
**ADVERTISEMENT TO FILL UP PROJECT POSITIONS\***

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. Digvijay Singh), Dept./Centre Metallurgical and Materials Engineering Indian Institute of Technology, Roorkee.

1. Title of project: **Next-Generation Alloys for Extreme Environments: Advancing Fatigue and Hydrogen Embrittlement Resistance for Sustainable Cryogenic Infrastructure**
2. Sponsor of the project: **ANRF**
3. Project position(s) and number: **JRF (Junior Research Fellow) / Project Associate-I; One**
4. Qualifications:  
**Essential: M.Tech./M.E. degree** in Metallurgical and Materials Engineering/ Mechanical Engineering, or allied disciplines. **OR B.Tech./M.Sc.** in Metallurgy/Materials Science, or allied disciplines.  
**Desirable:** Candidates with hands-on experience in mechanical testing and microstructural characterization techniques such as SEM-EBSD and/or TEM, and X-ray diffraction analysis are encouraged to apply. A basic understanding of phase transformations and deformation mechanisms in metallic materials will be advantageous. Selected candidates with GATE/NET qualifications may be considered for enrollment in the Ph.D. program.
5. Emoluments: **Rs. 37,000/- per month + HRA** (with GATE/CSIR-UGC NET score, as per ANRF rules)  
**Rs. 30,000/- per month + HRA** (without GATE/CSIR-UGC NET score, as per ANRF rules)
6. Duration: **12 months** (extendable up to total 03 years based on performance)
7. Job description: Development of High-Mn austenitic alloys, Tensile and Fatigue (LCF) testing at cryogenic temperatures, Microstructure analysis (SEM, EBSD, TEM, and XRD/Neutron diffraction), and contributing to data analysis and research publications.
  - a. Candidates before appearing for the interview shall ensure that they are eligible for the position.
  - b. Candidates desiring to appear for the Interview should **submit their applications in advance with the following documents to the PI through email (digvijay.mt@srlic.iitr.ac.in)**, or produce at the time of Interview:
    - Application in a plain paper with detailed CV including chronological degree/certificates obtained.
    - Experience including research, industrial field and others.
    - Self-attested copies of degree/certificate and experience certificate.
  - c. Candidate shall bring along with them the original degree(s)/certificate(s) and experience certificate(s) at the time of interview for verification.
  - d. Preference will be given to SC/ST candidates on equal qualifications and experience.
  - e. Please note that no TA/DA is admissible for attending the interview.

*Walk-in interview in hybrid mode (in person & online) will be held on 18<sup>th</sup> May, 2026 at 3:00 PM in the dept. of Metallurgical and Materials Engineering, IIT Roorkee. The link will be shared with the eligible online applicants.*

Tel: 01332-285524  
Email: digvijay.mt@srlic.iitr.ac.in

  
27.04.2026  
Name and signature  
of Principal Investigator  
(Dr. Digvijay Singh)

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

**APPROVED**

  
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Sponsored Research & Industrial Consultancy  
Indian Institute of Technology Roorkee  
Roorkee-247 667 (INDIA)  
  
28/04/2026  
  
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