

**SRIC/06**

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

Dated: Jun 06, 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 (Name: Prof. Vidit Gaur), Dept./Centre: Department of Mechanical and Industrial Engineering, Indian Institute of Technology, Roorkee.

1. Title of project : On investigation of fatigue damage of additively manufactured IN718 alloys with novel multilayered thermal barrier coatings
2. Sponsor of the project : SERB New Delhi
3. Project position(s) and number : JRF (01)
4. Qualifications : ME/M.Tech in Mech./Metallurgy/Materials Engg. with GATE qualified  
Candidates with B.Tech/M.Tech from IITs (CGPA > 8) are exempted from GATE/NET as per Institute rules
5. Emoluments : Rs. 31,000/month for 1<sup>st</sup> & 2<sup>nd</sup> year and Rs. 35,000/month for 3<sup>rd</sup> year
6. Duration : 3 Years
7. Job description

The project aim is to investigate and contribute to the understanding of fatigue damage characteristics of additively manufactured IN718 alloy with thermal barrier coatings. Some basic knowledge of metallurgical aspects of material mechanics behavior, fracture mechanics, and fatigue is required. Should be able to work in an independent environment. Skills like SEM, Optical microscopy analysis, EBSD analysis, and additive manufacturing with prior experience in modeling and simulations are preferable but not obligatory.

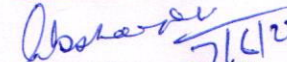
1. Candidates before appearing for the interview shall ensure that they are eligible for the position they intend to apply. Only the shortlisted candidates will be notified for interview call.
2. Candidates should submit their applications with the following documents to the office of Principal Investigator through email or by post 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. 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.
6. Note: Selected candidate may get an opportunity to pursue for PhD subjected to Institute admission rules

The last date for application to be submitted by email to Principal Investigator is **25 Jun 2023** by 5 PM. The interview shall be in online mode and shortlisted candidates shall be informed accordingly.

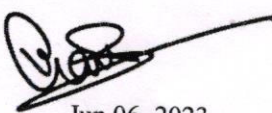
Tel: +91 1332 284909/9758360057

Email: [vidit.gaur@me.iitr.ac.in](mailto:vidit.gaur@me.iitr.ac.in)

**APPROVED**

  
Name and signature  
of Principal Investigator

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

  
Jun 06, 2023

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

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