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SRIC/06

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

Dated: September 9, 2024

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 the integrity of additively repaired titanium alloy components for aerospace applications
2. Sponsor of the project : Aeronautics R&D Board, DRDO
3. Project position(s) and number : JRF (01)
4. Qualifications : ME/M.Tech in Mech./Prod./Manuf./Metall./Mat. 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. 37,000/month during the first two years; Rs. 42,000/month during the 3rd year
6. Duration : 3 Years
7. Job description

The project aims to develop a quantitative understanding of the effect of variable microstructure and process-induced defects on the fatigue behavior of additively repaired titanium alloys. A Probabilistic P-S-N curve would be generated which can be used for the development of a mechanical properties database in the material-integration module. Basic knowledge of metallurgical aspects of material mechanics behavior and fracture mechanics is required. Applicant should be able to work in an independent environment. Experimental skills like SEM, Optical microscopy analysis EBSD analysis, and mechanical testing are preferable but not mandatory.

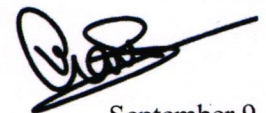
8. Candidates before appearing for the interview shall ensure that they are eligible for the position they intend to apply. Only the shortlisted candidates will be notified of the interview call.
9. Candidates should submit their applications with the following documents to the office of the Principal Investigator through email or by post as a **SINGLE PDF** file in the following order:
 - Application in plain paper with a detailed CV including chronological discipline of degree/certificates obtained.
 - Experience including research, industrial field and others.
 - Attested copies of degree/certificate and experience certificate.
10. Candidate shall bring along with them the original degree(s)/certificate(s) and experience certificate(s) at the time of interview for verification.
11. Preference will be given to SC/ST candidates on equal qualifications and experience.
12. Please note that no TA/DA is admissible for attending the interview.
13. Note: The selected candidate may get an opportunity to pursue PhD subject to Institute admission rules

The last date for application to be submitted by email to the Principal Investigator is **22 September 2024 by 5 PM**. The interview shall be in online mode and shortlisted candidates shall be informed accordingly.

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Email: vidit.gaur@me.iitr.ac.in

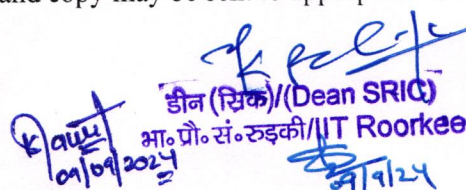
Name and signature
of Principal Investigator



September 9
2024

Approved

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


डीन (सि.क.) / (Dean SRIC)
भा. प्रौ. सं. रुड़की / IIT Roorkee
09/09/2024