

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


Dated: 30.04.2026

**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, **Dr. Gautam Agarwal**, Department of Metallurgical and Materials Engineering, Indian Institute of Technology, Roorkee.

1. **Title of project:** Development of Al – Si (50 wt. %) alloy through additive manufacturing
2. **Sponsor of the project:** ISRO, Bengaluru
3. **Project position(s) and number:** Junior Research Fellow (JRF) - 01
4. **Qualifications:** B.Tech./ M.Tech. degree in Mechanical Engineering/ Production Engineering/ and allied disciplines. B.Tech./ M.Tech. degree in Metallurgy / Materials Science and Engineering/ Ceramic Engineering/ Polymer Engineering or equivalent. M.Sc. in Materials Science/ Physics/ Chemistry and allied streams with Mathematics at the Undergraduate level with qualified GATE scorecard.
5. **Emoluments:** Rs. 37,000/- as per ISRO rules.
6. **Duration:** 6 months or the end of the project
7. **Job Description:**  
*The objective is to print defect free (minimal porosity and no crack) Al-Si alloy using laser powder bed fusion (LPBF). Candidates should preferably have experience with FEM (for thermomechanical modeling of LPBF) using open source, own code or commercially available software (ABAQUS, ANSYS, COMSOL). Some amount of material characterization (optical microscopy, SEM, XRD, Micro-CT etc.) will also be part of the project.*
8. Candidates before appearing for the interview shall ensure that they are eligible for the position they intend to apply.
9. Candidates desiring to appear for the Interview should submit their applications with the following documents to the office of Principal Investigator through email, by post or produce at the time of Interview:
  - CV including chronological discipline of degree/certificates obtained.
  - Experience including research, industrial field and others.
  - Attested copies of degree/certificate and experience certificate.
  - GATE score card.
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.

**The interview will be held at the Department of Metallurgical and Materials Engineering, IIT Roorkee, on May 14, 2026 (Thursday) at 11:00 hours (to be given only for walk-in interviews).**



Gautam Agarwal

Name and signature of Principal Investigator

Tel: 01332-285306

Email: gautam.agarwal@mt.iitr.ac.in

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

**APPROVED**

  
 Dean  
 Sponsored Research & Industrial Consultancy  
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 28/4/26