



Indian Institute of Technology Indore

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Advertisement for JRF Position in Alloy Design and Thermomigration Studies (ANRF-PMECRG Project), IIT Indore

August 27, 2026

Applications are invited from motivated and eligible candidates for the position of **Junior Research Fellow (JRF)** in a research project funded by the **Anusandhan National Research Foundation (ANRF)** under the **Prime Minister Early Career Research Grant (PMECRG)** scheme, Government of India.

Project Title	Unraveling Thermomigration Effects in High-Entropy Solder Alloys
Principal Investigator	Dr. Vivek Verma, Department of Metallurgical Engineering and Materials Science, <i>Location: IIT Indore, Madhya Pradesh</i>
Position Details	Position: Junior Research Fellow (JRF) Number of Posts: 01 Duration: Initially for one year; extendable based on performance and project tenure Fellowship: ₹37,000 per month + HRA Accommodation: Institute hostel may be provided subject to availability; otherwise HRA will be applicable Age Limit: Maximum 28 years
Project Description	This project aims to unravel thermomigration behavior in high-entropy solder alloy systems through computational thermodynamics, diffusion modeling, and experimental characterization, enabling predictive design of thermally stable advanced materials for next-generation electronics.
Eligibility Criteria	<u>a) Essential Qualifications</u> M.Tech./ M.E./ M.S. or equivalent degree in Metallurgical Engineering/ Materials Science and Engineering/ Metallurgical and Materials Engineering/ Mechanical Engineering/ Manufacturing/ Production Engineering. Candidates having MTech/ME/MS degrees in these should have previously qualified GATE once. OR B.Tech./ B.E. or equivalent degree in Metallurgical Engineering/ Materials Science and Engineering /Metallurgical and Materials Engineering/ Mechanical Engineering/ Manufacturing/ Production Engineering/Engineering Physics with valid GATE score. OR M.Sc. in Materials Science, Physics, Nanoscience and Technology, with a valid GATE score OR UGC/CSIR-JRF qualification OR Equivalent Fellowship. <u>b) Desirable Qualifications</u> - Strong foundation in physical metallurgy, thermodynamics, and mechanical behavior. - Understanding of phase transformations, diffusion phenomena, microstructure–property relationships and strengthening mechanisms in metallic systems. - Experience in materials characterization techniques and/or mechanical property evaluation. - Proficiency in scientific computing tools, Thermo-Calc, and DICTRA. Important Note on PhD Opportunity <i>Strong preference will be given to candidates who are interested in pursuing a PhD at IIT Indore. Candidates with clear research motivation and long-term commitment to doctoral studies will be prioritized.</i>
Application Process	- Interested candidates should email a single PDF containing all the required qualification documents to: vivekv@iiti.ac.in Subject line: Application for the position of JRF (ANRF-PMECRG project) Deadline: September 20, 2026
Essential documents	1. Curriculum Vitae, 2. Statement of Purpose 3. Self-attested copies of educational certificates, 4. GATE scorecard, 5. List of publications (if any), 6. Any other relevant documents
Selection Process & Additional Information	- Candidates will be shortlisted based on merit and project requirements - Shortlisted candidates will be informed via email about the interview - The interview will be conducted online (meeting link will be shared only with shortlisted candidates) - The position is purely temporary and co-terminus with the project - Mere possession of minimum qualifications does not guarantee an interview call