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IIT INDORE

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

November 19, 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, *Location: IIT Indore, Madhya Pradesh*
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	a) Essential Qualifications **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 Equivalent Fellowship. b) Desirable Qualifications • 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** ***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.*
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**: December 27, 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