



Indian Institute of Technology Indore

Khandwa Road, Simrol
Indore 453552

भारतीय प्रौद्योगिकी संस्थान इन्दौर
सिमरोल, इन्दौर 453552, भारत

Office: +91 731 2438733
Fax: +91 731 2438 721



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

July 14, 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 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) <u>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 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. Candidates having B.Tech./B.E. degree should have a valid GATE score. OR M.Sc. in Materials Science, Physics, Nanoscience and Technology. Candidates having M.Sc. Degree should have a valid GATE qualification OR UGC/CSIR-JRF qualification OR Equivalent Fellowship. b) <u>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 file to: vivekv@iiti.ac.in Subject line: <i>Application for the position of JRF (ANRF-PMECRG project)</i> Deadline: August 14, 2026
Essential documents	- Curriculum Vitae - Statement of Purpose - Self-attested copies of educational certificates - GATE scorecard - List of publications (if any)
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