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April 06, 2026

## Advertisement for JRF Position

Computational Alloy Design (ANRF-ARG Project), IIT Indore

Applications are invited from motivated and eligible candidates for the position of **Junior Research Fellow (JRF)** in a research project funded by the **ANRF** under the Advanced Research Grant (ARG) scheme, Government of India.

### Project Title

Computational Exploration and Design of BCC + B2 Superalloys

### Principal Investigator

Dr. Venkata Vamsi Koruprolu  
Department of MEMS, IIT Indore

### Location

IIT Indore, Madhya Pradesh

### Position Details

- Position: Junior Research Fellow (JRF)
- Number of Posts: 01
- Duration: Initially for one year; extendable
- Fellowship: **Rs.37,000** + HRA
- Accommodation: Institute hostel may be provided subject to availability; otherwise HRA will be applicable
- Age Limit: Maximum **28** years

### Project Description

High-temperature materials demand improved phase stability and mechanical performance. This project employs CALPHAD and density functional theory (DFT) to study phase stability, defect energetics, and deformation behavior, complemented by experimental validation.

### Eligibility Criteria

#### a) Essential

- **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) Desirable

- Background in physical metallurgy and thermodynamics
- Understanding of microstructure–property relationships
- Experience in characterization/mechanical testing (preferred)
- Familiarity with Python, Ubuntu

### PhD Opportunity

Strong preference will be given to candidates interested in pursuing a PhD at IIT Indore. Applicants with clear research motivation and a long-term commitment to doctoral studies will be prioritized.

### Application Process

- Interested candidates should email a single PDF file to: [kvvamsi@iiti.ac.in](mailto:kvvamsi@iiti.ac.in)
- Subject line: Application for the position of JRF (ANRF-ARG project)
- Deadline: **April 30, 2026**

### Documents

1. Curriculum Vitae
2. Statement of Purpose
3. Certificates
4. GATE scorecard or equivalent
5. Publications (if any)

### Selection Process

- Shortlisting 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)

Note: Position is temporary and co-terminus with the project. Mere possession of minimum qualifications does not guarantee an interview call

*Join the VAMSI Research Group  
to design next-generation high temperature alloys*