



भारतीय प्रौद्योगिकी संस्थान इंदौर

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Indian Institute of Technology Indore

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IIT Indore

Advertisement for Recruitment of JRF Position

Advt. No.

Date: 01/04/2026

Applications are invited from motivated and eligible candidates for a Junior Research Fellowship (JRF) position in the ANRF-ARG funded research project titled "Development, validation, and application of rate-dependent homogenized constitutive model for open-cell foams."

Brief description of the project:

Metallic open-cell foams are a new type of material that offer low weight, along with benefits such as energy absorption, heat dissipation, and sound and electromagnetic wave shielding. Because of these qualities, they are useful in automotive, aerospace, construction, and defense industries.

This project aims to develop a data-driven model that describes how metallic foams deform under different loading conditions, including high-strain-rate loading. The selected candidate will work to develop the data-driven model (using AI, machine learning, or PINN). The developed model will be validated against experiments. The framework will help predict material deformation under different loading conditions, thereby enabling the design of real-world structures using metallic foam. Candidate needs to have good knowledge of solid mechanics, Finite Element Method, and mechanical behavior of materials.

Eligibility:

(I) M. E. or M. Tech. or equivalent degrees in Mechanical/Aerospace Engineering, Materials Engineering or relevant engineering discipline (with at least 60% marks or first class or equivalent). Candidates should have knowledge in solid mechanics, metal plasticity and data driven techniques. GATE qualified candidates will be preferred.

OR

(II) Four-year bachelor's degree OR five-year integrated degree in Mechanical Engineering Materials Science and Engineering (with first division as defined by the awarding Institute/ University) AND valid GATE score.

Duration: The appointment will be for 1 year initially, and based on the performance of the candidate, tenure can be extended to four years. The selected candidate will be encouraged to register for the Ph.D. program at IIT Indore as per institute norms, If selected for PhD program, fellowship will be extended for PhD duration as per the institute norms.

Fellowship: Rs 37,000/- per month (for first two years), Rs 42,000/- per month (for third and fourth year) + HRA as per institute norms.

How to Apply: Interested candidates are requested to apply for the position through Google form: <https://forms.gle/XD81YTMoQF1m4bk79>

- The last date for submitting the application form is **April 24, 2026**.
- The CV should include details of academic grades starting from 10th standard onwards with details of the year of passing, institute/university/college etc., and work experience and nature of work if applicable.
- Incomplete applications will be rejected.
- For any technical problem with submitting the application please write to mavank@iiti.ac.in

Selection process (online interview): Only shortlisted candidates will be called for an interview. Selected candidates will be intimated by email for an interview. No TA/DA will be paid for appearing in the interview. **Interview dates will be communicated by 26th April 2026.**