



# Indian Institute of Technology Indore

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भारतीय प्रौद्योगिकी संस्थान इन्दौर  
सिमरोल, इन्दौर 453 552, भारत

IIT Indore

## **Advertisement for Recruitment of Junior Research Fellow (JRF)**

Advt. No: MEMS/2025/April/JP-2

Date: 18/04/2025

Applications are invited from interested and motivated candidates for the post of Junior Research Fellow (JRF) in a research project as per the following details.

<b>Position</b>	Junior Research Fellow (JRF) Under DST TDP ( Project No: DST//TTI/TDP-07/2024)
<b>Number of Vacancy</b>	01
<b>Project Title</b>	Development of new high temperature Titanium alloys (Alloy development and study on mechanical behaviour and microstructure features at on fatigue, fretting fatigue and fracture high temperature and room temperature))
<b>Department</b>	Metallurgical Engineering and Materials Science
<b>Fellowship duration</b>	2 years (initially 1 year, upon performance the fellowship will be extended until the completion of the project) (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 institute norms.
<b>Job Description</b>	To develop new Ti alloy with improved properties and investigate fatigue, creep and fracture behavior of developed alloy at . room temperature and high temperature of these advanced materials. The project involves both experimental study and numerical analysis. The project provides learning opportunities in the areas of alloy development, mechanical testing, fatigue, creep and fracture mechanics, materials characterization, numerical analysis etc.
<b>Essential Qualification</b>	Master's degree in mechanical / metallurgy / materials / production/ manufacturing engineering/ material science engineering / industrial engineering/ welding engineering / relevant branch of Engineering or Science. GATE qualified candidates will be preferred.
<b>Fellowship</b>	Junior Research Fellowship (JRF): Rs. 37,000/- p.m. (First & Second years) Plus HRA will provided as per institute norms.

Interested candidates are requested to submit a detailed softcopy of their CV with all relevant Essential Qualification Degree Certificates, Marks Sheets, GATE qualifying certificate, class X and XII marksheet in a single pdf file to [jayaprakash@iiti.ac.in](mailto:jayaprakash@iiti.ac.in) by **25 Apr, 2025**. Tentative Date of Interview: **Last week of April**.

Only shortlisted candidates will be called for interview. Selected candidates will be intimated by email.

**No TA/DA will be paid for appearing in the interview.**

**Address for Correspondence:**

Dr. Jayaprakash Murugesan\_(email: [jayaprakash@iiti.ac.in](mailto:jayaprakash@iiti.ac.in))

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