



Indian Institute of Technology Indore

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भारतीय प्रौद्योगिकी संस्थान इन्दौर
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IIT Indore

Advertisement for Recruitment of Junior Research Fellow (JRF)

Advt. No: MEMS/2025/April/JP-1

Date: 16/04/2025

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.

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|--------------------------------|---|
| Position | Junior Research Fellow (JRF) (Under Aeronautical Research and Development Board (DRDO), Project No. <u>ARDB/MM/4171/2149</u>) |
| Number of Vacancy | 01 |
| Project Title | High temperature fretting fatigue behavior of Titanium alloys and nickel based super alloys under severe loading conditions |
| Department | Metallurgical Engineering and Materials Science |
| Fellowship duration | 3 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. |
| Job Description | To investigate fatigue, fretting fatigue and fracture behavior of advanced materials for defense application. The studies to be carried out both at room temperature and high temperature of these advanced materials. The project involves both experimental study, numerical analysis (FEM), Machine learning. The project provides learning opportunities in the areas of mechanical testing of materials, fatigue, fretting fatigue, fracture mechanics, materials characterization, numerical analysis, material processing like advanced welding, advanced manufacturing techniques, additive manufacturing metal forming and etc. |
| Essential Qualification | Master's degree in mechanical / metallurgy / materials / production/ manufacturing engineering/ material science engineering / industrial engineering/ CAD/CAM/ welding engineering / physics / relevant branch of Engineering or Science. GATE qualified candidates will be given preference. |
| Fellowship | Junior Research Fellowship (JRF): Rs. 37,000/- p.m. (First & Second years) Rs. 42000/- p.m. (3 rd year upon upgradation) 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 by **24 April, 2025**.

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

Interview will be conducted through online mode (google meet).

Address for Correspondence:

Dr. Jayaprakash Murugesan_(email: jayaprakash@iiti.ac.in)

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