



Indian Institute of Technology Indore

Khandwa Road, Simrol, 453552.

Office Ph: +917316603516

भारतीय प्रौद्योगिकी संस्थान इन्दौर
सिमरोल, इन्दौर 453 552, भारत

IIT Indore

Advertisement for Recruitment of Junior Research Fellow (JRF)

Advt. No: MEMS/2024/Oct

Date: 04/10/2024

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.	
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 preferred.
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 Oct, 2024**. Tentative Date of Interview: **last week of October 2024**.

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)

Department of Metallurgical Engineering and Materials Science, Indian Institute of Technology Indore ,
Indore (MP).Phone: 9755611891