



Department of Mechanical Engineering
Indian Institute of Technology Indore

Advertisement for Junior Research Fellow (JRF)

Applications are invited from motivated and eligible candidates for a junior research fellow (JRF) position in the research project supported by Defence Materials and Stores R&D Establishment (DMSRDE), a premier laboratory of DRDO. The details of the project are given below:

Name of Post	Junior Research Fellow
No. of post	One (01)
Title of The Project	Development of Simulation Model for Blast Resistant Honeycomb Sandwich Structure
Principal Investigator	Dr. Indrasen Singh, Assistant Professor Mechanical Engineering, IIT Indore
Tenure of Project	Maximum 1.5 years or till end of the project, whichever is earlier.
Job Description	Candidate needs to perform finite element simulations of deformation behaviour of honeycomb sandwich structure subjected to blast loading. The primary objective of these simulations is to optimize the shape, size and geometrical lengths associated with the honeycomb so that the sandwich structure can sustain the blast load generated by 60 grams of RDX. In addition, the candidate needs to determine the thickness of different layers (top, bottom and honeycomb) in sandwich structure.
Essential Qualification	M. Tech. in Mechanical Engineering/Aerospace Engineering/Materials Engineering or equivalent (with first division as defined by the awarding Institute / University). The candidate should be GATE qualified in any branch of engineering.
Desirable Qualification	Candidate needs to have good knowledge of solid mechanics, Finite Element Method, and mechanical behavior of materials.
Age Limit	Preferably below 25 Years
Salary/Fellowship	Rs. 37,000/- pm
How to Apply & Time	Interested candidates are requested to apply for the position through Google form: https://docs.google.com/forms/d/1oljJvhQF-LjSiGfucy9IENCskeMWdQdzHx03O-ti6vY/edit#responses <input type="checkbox"/> The last date for submitting the application form is Aug 4, 2024. <input type="checkbox"/> 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. <input type="checkbox"/> Incomplete applications will be rejected. <input type="checkbox"/> For any technical problem with submitting the application please write to indrasen@iiti.ac.in
Only shortlisted candidates will be informed about the date of the interview by email. The appointment is purely temporary and may co-terminus with the project. Mere possession of minimum qualification does not guarantee an invitation to the interview. Candidates will be short listed based on their merit and as per the requirement of the project. Google meet link will be shared only with the shortlisted candidates before the date of the interview. Interview Date: Would be communicated by 5th Aug 2024	