



Department of Mechanical Engineering
Indian Institute of Technology Indore

Advertisement for Junior Research Fellow (JRF)

Applications are invited from motivated and eligible candidates for two JRF positions in the research project supported by Armament Research Board (DRDO). The details of the project are given below:

Name of Post	Junior research fellow (JRF)
No. of post	One (01)
Title of The Project	Development of numerical model to compute the flow and acoustic field inside and outside of the gun barrel for practice ammunitions and actual rounds.
Principal Investigator	Dr. Krishna Mohan Kumar Assistant Professor Mechanical Engineering, IIT Indore
Co-Principal Investigator	Dr. Indrasen Singh, Associate Professor Mechanical Engineering, IIT Indore
Tenure of Project	Maximum six (06) months or till end of the project, whichever is earlier.
Job Description	The candidate will be required to perform finite element simulations of the engraving process of the rotating band in a 155 × 52 caliber gun system using the commercial software package Abaqus 2017. The candidate will also be responsible for implementing a lumped parameter model (LPM) for internal ballistics within Abaqus 2017.
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. The candidate who has submitted his/her thesis in the department of Mechanical Engineering will be preferred.
Desirable Qualification	Candidate needs to have good knowledge of solid mechanics, Finite Element Method, and mechanical behavior of materials.
Age Limit	Preferably below 40 Years
Salary	Rs. 37,000/- pm + HRA as per institute norms.
Last Date & Time	Interested candidates are requested to apply for the position through Google form: https://docs.google.com/forms/d/e/1FAIpQLSe44AcIUoKjWjR_5nQcK_fNVwTXlwWm6wLqwRO0mXTiXtk1uQ/viewform?usp=header <input type="checkbox"/> The last date for submitting the application form is March 26, 2026 . <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
<p>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.</p> <p>Google meet link will be shared only with the shortlisted candidates before the date of the interview.</p> <p>Interview Date: Would be communicated by 29th March 2024</p>	