



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.
Investigators	Dr. Krishna Mohan Kumar (PI), Assistant Professor, Dr. Indrasen Singh (Co-PI), Associate Professor, Department of Mechanical Engineering, Indian Institute of Technology Indore.
Tenure of Project	Maximum 1 year, however, it can be extended till end of the project if the candidate's performance is found satisfactory.
Job Description	Selected JRFs will carry out CFD/FEM simulations in commercially available software packages to study the pressure and velocity field inside and outside the gun. The candidate may be performing simulations in either ANSYS or/and ABAQUS.
Essential Qualification	B. Tech./B.E. or/and M. Tech./M.E./M.S. (R) in Mechanical Engineering/ Aerospace Engineering/ Chemical Engineering/ Civil Engineering/ Applied Mechanics/ Materials Science and Materials Engineering with first division as defined by the awarding Institute / University. A candidate with only a B. Tech/B.E. degree needs to have a valid GATE scorecard in any branch of engineering. A candidate with a M. Tech/M.E./M.S. (R) degree is exempted from the criterion of valid GATE scorecard in any branch of engineering.
Desirable Qualification	Candidate needs to have exposure of Finite Element Method, Computational Fluid Dynamics, and Mechanical Vibrations.
Age Limit	Preferably below 40 years
Salary	₹ 37,000 per month + 20 % HRA (HRA will be provided if institute accommodation is not being provided/availed.)
Last Date & Time	Interested candidates are requested to apply for the position through Google form: https://forms.gle/wGU6nGjS77HJPYfx8 <input type="checkbox"/> The last date for submitting the application form is April 11, 2025 . <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 kmkumar@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 shortlisted 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 April 12, 2025.	