



**Indian Institute of Technology (Indian School of Mines),
Dhanbad**

The Office of Dean, Research & Development

CARS Contract No. RDE/SCG/2022-23/22 IMMS No. 23CR0002 dt. 13.03.2023	IIT (ISM) Project No.: DRDO[R&DE(E)](21)/2022- 2023/993/MECH	Date:30.11.2023
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JRF position under DRDO, R & DE (Engineers) sponsored project

Applications are invited under the above sponsored project. The details of the positions are as under:

Positions	Junior Research Fellow (JRF) in Mechanical Engineering
Number of Position (s)	01 (One)
Title of the Project	Development of Algorithms for Collaborative Dual Arm Manipulation and Control
Principal Investigator	Prof. Arun Dayal Udai, email: arunudai@iitism.ac.in
Co - Principal Investigator	Prof. Zafar Alam, email: zafar@iitism.ac.in
Tenure of Appointment	up to 30.05.2024 or co-terminus with the project (13.03.2025), in case of extension of the appointment given upon satisfactory performance by the candidate.
Job Description	Interpretation of objects using live video stream and/or 3D stereo data feed for any target identification and classification. Algorithm for strategy development, and dual-arm robotic manipulation to handle the identified object autonomously, avoiding any collision.
Essential Qualification (s)	Graduate/Post Graduate degree in professional course (B.E./B. Tech) in First Division having selected through National level examination conducted by Central government departments and their agencies and institutions like DST, DBR, DAE, DOS, DRDO, MHRD, ICAR, ICMR, IIT (Mains, Advanced or GATE), IISc, IISER, etc.
Desirable Qualification(s)	B.E/ B. Tech/M.E/M.Tech in Mechanical Engineering/Computer Science and Engineering/Electrical and Electronics Engineering with First Class having cleared the GATE Exam.
Desirable Experience	Experience in ROS, Gazebo/RViz, Python, C/C++, Image Processing, 3D Cloud data processing, Robotic Kinematics and Dynamics, Control, AI/ML, Reinforcement learning.
Age and relaxation (if any)	The upper age limit is 28 years based on the last date of submission of the application (Age relaxation for SC / ST / PH / OBC as per GOI rules).
Fellowship	Rs. 37,000/- (Consolidated Monthly Emoluments)
Last Date & Time	15-12-2023 by 5:00 PM

The applicants will ensure their eligibility in respect of qualification, experience, age and other relaxations before applying and appearing for the offline/online interview. Candidates are requested to submit scanned attested copies of all certificates regarding age, qualification, experience along with their CV by Email to arunudai@iitism.ac.in indicating the project title and number. Shortlisted candidates will be informed for the date of interview. 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. All candidates should make their own arrangements for their stay at Dhanbad, if required. No TA/DA will be paid to attend the interview.