



Indian Institute of Technology (ISM) Dhanbad
Office of the Dean (Research & Development)

Sanction No and Date: ANRF/IRG/2024/000792/ENS dated 23.03.2025	IIT (ISM) Project No. SRDP/1180/G	Date: 26.05.2026
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JRF position under the ANRF Project

Applications are invited under the sponsored project. The details are below:

Position	Junior Research Fellow (JRF)
Number of Position	One (01)
Title of The Project	Integration of Multilevel Multiphase Motor for Electric Vehicles: Design, Development, Real-time Fault Diagnosis, and Fault-Tolerant Control for Reduced Harmonics and Torque Ripples at All Speeds.
Principal Investigator	Prof. Kartick Chandra Jana, Professor, Department of Electrical Engineering, IIT(ISM) Dhanbad, Jharkhand-826004, Email: kartick@iitism.ac.in
Tenure of Project	21 Months
Job Description (in a maximum of 100 words)	The project involves modeling, simulation, control, and hardware implementation of advanced electric drive systems for electric vehicle (EV) applications, with emphasis on real-time fault diagnosis and fault-tolerant control of multilevel multiphase motor systems. The selected candidate is expected to actively contribute to high-quality journal publications and conference presentations based on the project outcomes.
Essential Qualification	Minimum qualification: M.Tech. in Power Electronics and Drives / Power System Engineering with B.Tech. in Electrical Engineering / Electrical & Electronics Engineering or equivalent. The candidates must be GATE qualified.
Desirable Qualification	Candidates with a strong background in Power Electronics, Machine Modeling, and control with hands-on hardware experience will be given preference.
Age and Relaxation (if any)	The upper age limit is 32 years at the time of appointment (Age relaxation for SC/ST/OBC/PH/Female candidates as per GoI rules).
Fellowship	Rs. 37,000/- + 20% HRA initially for one year, and may be extended (subject to satisfactory progress) as Senior Research Fellow (SRF) till the end of the project with fellowship of Rs. 42,000/- + 20% HRA.
Last Date & Time	Interested candidates must apply with their updated CV and testimonials as a single PDF to the PI (kartick@iitism.ac.in) by 24.06.2026. The candidate should write "Application for JRF position in project No. "ANRF/IRG/2024/000792/ENS" in the subject of the email.

Shortlisted candidates will be informed through email regarding the date of the interview. Mere possession of the minimum qualification does not guarantee an invitation to the interview. Candidates will be shortlisted based on their merit and as per the project requirements. All candidates should make their own arrangements for their stay at Dhanbad, if required. No TA/DA will be paid to attend the interview.

(Signature of PI)