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

Office of the Dean, Research & Development

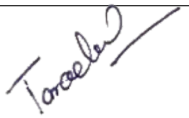
Sanction No: ANRF/IRG/2025/000855 **Dated:** 02/11/2026	**IIT (ISM) Dhanbad Project No: SRDP 1420 G**	**Date**: 12/11/2026

Junior Research Fellow (JRF) position under ANRF Project

Applications are invited under the sponsored project. The details are as follows:

Position	ANRF - Junior Research Fellow (JRF)
Number of Position (s)	01 (One)
Title of the Project	Dynamic Model Compression and Energy-Efficient Multimodal Scheduling on Edge Devices
Principal Investigator	**Prof. Amgoth Tarachand,** Professor, Department of Computer Science & Engineering, IIT (ISM) Dhanbad, Jharkhand 826004. website: https://people.iitism.ac.in/ tarachand/ Email: tarachand@iitism.ac.in
Tenure of Project	Maximum three years or till the end of the project, whichever is earlier. The candidate will be allowed for PhD as per the Institute norms.
Job Description (in maximum of 100 words)	The JRF will develop and evaluate compressed vision and NLP models for NVIDIA Jetson edge devices; implement ONNX/TensorRT inference engines; acquire live GPU, CPU, memory, temperature and power telemetry; design an energy-aware runtime scheduler for multimodal workloads; integrate concurrent object-detection and language-processing pipelines; measure latency, accuracy, throughput, energy per inference and scheduler overhead; conduct COCO and appropriate NLP benchmark experiments; maintain research code, datasets, experimental logs, reports and publications
Essential Qualification	B.E./B.Tech. or M.E./M.Tech. in Computer Science & Engineering, Information Technology, Electronics & Communication Engineering, Artificial Intelligence or a closely related discipline, with eligibility/selection criteria as prescribed in the applicable ANRF/IIT (ISM) JRF rules. Relaxation for SC/ST students as per Govt. norms.
Desirable Qualification	Python, PyTorch/TensorFlow, deep learning, pruning/quantization/distillation, ONNX/TensorRT, NVIDIA Jetson/Linux, GPU profiling, real-time systems, optimization/scheduling and benchmarking; experience with computer vision and NLP.
Age and Relaxation (if any)	35 years and as per the norms of the Government of India / IIT (ISM) Dhanbad. Relaxation for SC/ST students as per Govt. norms.
Fellowship	(Rs. 37,000 + 20 % HRA)/month for the first two years, and (Rs. 42,000 + 20 % HRA)/month for the third year. The Fellowship of Rs. 42000/- in the third year will be awarded after successful assessment.
Last Date & Time	**25/11/2026**, Online Application link:https://forms.gle/CbBBdnh7v45U9gPT8 Interested candidates are requested to fill out the online application (as per the link provided) and must attach all supporting documents, copies of publications, awards, recommendation letter, CV **with Photo**, GATE/NET/National level examination qualification certificate, etc.

Shortlisted candidates will be notified of the date of the interview. Mere possession of minimum qualifications does not guarantee an invitation to the interview. Candidates will be shortlisted based on their merit and the project's requirements. The interview will be conducted via video conferencing; a link will be shared with the shortlisted candidates in due course.



Signature of the Principal Investigator