



Indian Institute of Technology (ISM) Dhanbad

Office of the Dean (Research & Development)

Sanction No and Date: PSF-IH-4Y-TD-155, 29/09/2026	IIT (ISM) Project No. SRDP1413G	Date: 30/10/2026
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Advertisement for the Post of Junior Research Fellow Sponsored by TexMin Foundation (TIH) under DST, Government of India

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

Position	Junior Research Fellow (JRF)
Number of Position(s)	One (01)
Title of the Project	<i>Microseismic Wave Detection in Coal Mines Using Fiber Optic Geophones for Artificial Intelligence-Based Structural Health Monitoring</i>
Principal Investigator	Dr. Amitesh Kumar (Associate Professor) Department of Electronics Engineering IIT(ISM) Dhanbad, 826004, India E-mail: amitesh@iitism.ac.in Phone no: 09431166555 (Mobile)
Tenure of Project	12 Months, or until the completion of the project, whichever comes earlier. (The position may be converted into a regular JRF of the institute at any point, subject to the IIT(ISM) rule).
Job Description (in maximum of 100 words)	The research project focuses on developing a Fiber Optic Geophones to detect the micro seismic waves for AI based structural health monitoring. The work involves designing of optical geophone in related software, data collection and development of AI/ML algorithms for signal processing and model development.
Essential Qualification	<ul style="list-style-type: none">M. Tech. / M.E./M.S. in Electronics Engineering / Electronics & Communication Engineering / Electronics & Telecommunication Engineering / Electronics and Instrumentation Engineering/ Optical/ Opto-Electronics <p style="text-align: center;">OR</p> <p>M. Sc or M. Sc. Tech. in Physics / Electronics or equivalent degree with a minimum of first class or above from the reputed Institute.</p> <ul style="list-style-type: none">The candidates must have qualified GATE/CSIR-UGC NET examination.
Desirable Qualification	Experience in COMSOL, Machine learning, and programming (Python/MATLAB) in the relevant field.
Age and Relaxation (if any)	As per the norms of the Govt. of India
Fellowship	Rs. 37,000/- +HRA (as applicable) per month.
Last Date & Time	November 15, 2026 11.30 PM Online Application link: https://forms.gle/E2atwF5V6PUGFiMd6
Shortlisted candidates will be informed on 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. The interview will be online/offline mode. All candidates should make their own arrangements for their stay at Dhanbad, if required. No TA/DA will be paid to attend the interview.	

Amitesh Kumar

(Signature of PI)