



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

Sanction No and Date: Nil 01.01.2026	IIT (ISM) Project No. SRDP 1255 I	Date : 12.01.2026
---	---	-------------------

Project Staff (Research Associate) position under (WIN-CoE, IIT(ISM) Project

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

Position	Research Associate (RA) category III
Number of Position (s)	One Full time
Title of The Project	Development of Robust Gas Hazard Monitoring System suitable for Underground gassy coal mines using DSET Filter and CNN
Principal Investigator	Tanmoy Maity, Professor, Department of Electrical Engineering
Tenure of Project	Two (2) Years
Job Description (in maximum of 100 words)	<ul style="list-style-type: none">• Assist in development of an AI-enabled gas hazard monitoring system for underground coal mines• Assemble, test, and calibrate gas sensor nodes and LoRa-based communication modules• Support data acquisition, preprocessing, and training of DSET/CNN models on embedded hardware• Conduct surface experiments and coordinate underground field trials• Prepare technical reports, documentation for certification, and results for publications• Coordinate with vendors and external agencies for fabrication and calibration• Travel to vendor's place, mine sites and other places as and when required
Essential Qualification	Ph.D. in Electrical/Instrumentation Engineering or having 3 years of research, design and development experience after ME/M.Tech in Electrical/Instrumentation or equivalent Engineering with at least one research paper in Science Citation Indexed (SCI) journal.

Desirable Qualification	<p>Experience on similar type of development work. Basic knowledge on underground coal mining. Other terms and guidelines as per the DST notification DST/PCPM/Z-06/2022 dated 26.6.2023.</p> <p>Knowledge of embedded AI/ML, wireless data transmission, IoT Knowledge on IS/IEC 60079 based system Good communication and technical writing skills for reports and research papers</p>
Age and Relaxation (if any)	The upper age limit is 45 years at the time of appointment
Fellowship	INR 67,000 per month plus applicable HRA (or suitable Hostel accommodation)
Last Date & Time	Interested candidates are requested to send an application with detailed Bio-Data and a soft copy of educational qualifications and proof of domain knowledge/ experience with age proof as a single PDF to the Principal Investigator by Email: tanmoy@iitism.ac.in on or before 26th January,2026 .
<p>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. All candidates should make their own arrangements for their stay at Dhanbad, if required. No TA/DA will be paid to attend the interview. Position will be on a purely contractual basis and co-terminated with the project timeline. The interview will be held in offline mode only.</p>	

(Signature of PI)