



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

Sanction No and Date: No. Met4-14/16/2025 Metal-IV April 28, 2025	IIT (ISM) Project No. SRDP 1174G	Date: 16-07-2025
--	---	------------------

Project Staff (Junior research Fellow) position under Ministry of Mines Project

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

Position	Junior research Fellow (JRF)
Number of Position (s)	01
Title of The Project	Microwave integration in urban mining processes for sustainable recovery of critical elements
Principal Investigator	Dr. Aarti Kumari, Assistant Professor, Department of Fuel, Minerals & Metallurgical Engg., IIT(ISM) Dhanbad
Tenure of Project	Two years (maximum), or until the completion of the project, whichever comes earlier. <i>(The position may be converted into a regular JRF of the institute at any point subject to IIT(ISM) rules).</i>
Job Description (in Maximum of 100 words)	The research project focuses on the development of an integrated microwave-assisted hydrometallurgical processes for recovery of critical elements (REEs, Cu, Li, Ni, Co etc.) from urban ores/E-waste (<i>i.e</i> discarded PCBs, spent magnets and spent batteries). It aims to optimize the microwave integrated processes for maximum metal recovery and compare the kinetics of the microwave-integrated and conventional processes for techno-economic assessment.
Essential Qualification	<ul style="list-style-type: none">▪ M.E./M.Tech/ M.S/ Integrated M.Tech. or B.E/B.Tech. in Metallurgical /Chemical /Mineral/ Mining/ Environmental/ Mechanical or its related discipline OR M.Sc./ MSc.Tech or equivalent degree.▪ The candidates must have qualified GATE/CSIR-UGC NET examination.
Desirable Qualification	Experience/knowledge in the relevant fields.
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	<ul style="list-style-type: none">▪ Interested candidates should email a single PDF [containing (i) CV (ii) GATE/NET score card (iii) self-attested copies of all mark sheets and certificates from class 10th (iv) proof of work experience (if any) to PI aarti@iitism.ac.in by August 10, 2025.▪ Candidate should write “Application for the position of JRF under Ministry of Mines Project (SRDP 1174G)” in the subject of the email.
Shortlisted candidates will be informed about the date of interview via email. 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.	


(Signature of PI) 16/07/2025