



Department of Metallurgy Engineering and Materials Science

Indian Institute of Technology Indore

Advertisement for Junior Research Fellow (JRF)

Applications are invited from motivated and eligible candidates for junior research fellow (JRF) position in the research project (Project No: **IGSTC/WISER 25/P04-KD6664-MJDC6686/52/2025-26/199**) supported by Indo-German Science & Technology Centre (IGSTC). The details of the project are given below:

Position	Junior Research Fellow (JRF)
Number of Position (s)	1 (One)
Title of The Project	Understanding Impurity Effects on Agglomeration and Microstructure in Hydrogen-Reduced Low-Grade Iron Ores
Principal Investigator	Dr. Khushubo Devi Assistant Professor Department of Metallurgical Engineering and Materials Science (MEMS), IIT Indore
Tenure of Project	Maximum 36 months or till the end of the project, whichever is earlier
Job Description	In this project, the candidate will investigate hydrogen-based direct reduction of hematite/low-grade iron ores, with emphasis on how gangue impurities influence reduction kinetics and final metallization. The candidate will conduct reduction experiments, perform phase/microstructure characterization, and carry out thermodynamic/kinetic modelling to establish impurity-tolerant processing windows.
Essential Qualification	M. Tech. / ME in Metallurgical and Materials Engineering/ Mechanical Engineering/ Materials Engineering/ Nanoscience and Engineering/ Nanotechnology/ Production Engineering/ Manufacturing Engineering/ or equivalent (with first division as defined by the awarding Institute / University); or Post Graduate degree in Physics/Chemistry/Materials Science with first division as defined by the awarding Institute /University, and a Valid NET/ GATE certificate.
Desirable Qualification	Knowledge and experience in Physical Metallurgy, Extractive/Process Metallurgy, Mechanical Metallurgy, Materials Characterization, Solid state physics, and Basic Electrochemistry.
Age Limit	Maximum 29 years (5 years relaxation for SC/ST candidates and 3 years relaxation for OBC candidates)
Fellowship	As per the norms of the funding agency: Rs. 37,000/- pm (Consolidated) Rs. 42,000/- per month (for third year)
Admission to the PhD Program	The selected candidate will be encouraged to join the Ph.D. program at IIT Indore. Candidates who are going to complete his/her M. Tech. in the current academic year are also encouraged to apply.
Last Date & Time	Interested candidates are requested to send detailed Bio-data, statement of purpose (SOP), and copies of educational qualifications, and other relevant documents to the Principal Investigator by Email (khushubo@iiti.ac.in) on or before February 20, 2026, 5:00 PM .

Only shortlisted candidates will be informed of the interview date by email. The appointment is purely temporary and co-terminus with the project. Mere possession of the minimum qualification does not guarantee an invitation to the interview. Candidates will be shortlisted based on their merit and in accordance with the project's requirements. The Google Meet link will be shared only with the shortlisted candidates before the interview date.