



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

Sanction No and Date: ISRO/RES/4/736/25-26, 02.09.2025	<b>IIT (ISM) Project No. SRDP 1242</b>	Date: 04.03.2026
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**Project Staff (JRF) position under RESPOND of the ISRO Project**

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

<b>Position</b>	JRF
<b>Number of Position (s)</b>	01
<b>Title of The Project</b>	<b>3D subsurface modelling of structurally controlled geological provinces for critical mineral resource assessment</b>
<b>Investigator (s)</b>	Prof Sanjit Kumar Pal (PI) Prof. P R Sahoo (Co-PI)
<b>Tenure of Project</b>	36 months
<b>Job Description maximum of</b>	Remote Sensing, Geological and Geophysical data collection, data handling, data analysis, 2D/3D modelling and AI-ML for critical mineral resource assessment
<b>Essential Qualification</b>	M.Sc/M.Sc. Tech././Integrated M. Tech. /M. Tech. in Applied Geophysics/ Exploration Geophysics/ Geophysics/ <b>Geophysical Technology</b> or M.Sc. Tech. in Marine Geophysics/ <b>BS-MS (Dual Degree) in Earth Science ( with relevant fields)</b> or M. Tech in Earthquake Science and Engineering or M. Tech. in Geo-exploration/ Petroleum Exploration or M. Tech. in Geotechnical Engineering /Remote Sensing and GIS applications / Geoinformatics or M. Tech. in Geological Technology or M.Tech. in Petroleum Geosciences or /Int. M. Tech. /M. Tech. in other relevant fields with a first-class degree and a NET/GATE certificate.
<b>Desirable Qualification</b>	Knowledge of MATLAB, PYTHON for AI & ML integration. Knowledge in multi-source spatial data integration, e.g neural network, fuzzy logic, etc, for Mineral Prospectivity mapping. Knowledge of handling geostatistical packages and GIS packages. Should be familiar with Magnetometer, Gravimeter, ERT, IP, VLF-EM field data acquisition and processing
<b>Age and Relaxation(if any)</b>	30 years for general (Age relaxation for SC/ST/OBC/PH candidates as per GOI rules)
<b>Fellowship</b>	<b>₹37000.00 + 20 % HRA for two years and ₹42000.00 + 20 % HRA</b>
<b>Last Date &amp; Time</b>	Application indicating name of the project (ISRO), post (JRF), along with detailed Bio-data and self-attested copies of educational qualifications, age proof, experience certificate(s), NET/GATE certificate and cast certificate (if applicable) should be sent <b>to the PI by 15-April 2026, either a hard copy in speed-post or a soft copy in Email: sanjitismagp@iitism.ac.in</b>
<b>Prospect</b>	Registration for PhD as per the IIT(ISM) rule. Opportunity to work in the ISRO centre for this project, training in ISRO as per the requirements of the project.
Shortlisted candidates will be informed of the date of the interview. Mere possession of the minimum qualification does not guarantee an invitation to the interview. Candidates will be shortlisted based on their merit and as per the requirements 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)**