



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

Sanction No and Date: ANRF/ARG/2025/004357/ENS, 16/03/2026	<b>IIT (ISM) Project No.</b> SRDP 1287 G	Date: 10/06/2026
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**JRF position under ANRF ARG Project**

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

<b>Position</b>	ANRF Junior Research Fellow (ANRF JRF)
<b>Number of Position (s)</b>	One (01)
<b>Title of The Project</b>	Integration of IoT-Enabled Sensors with Groundwater Models for Real-Time Monitoring of Nitrate Transport: Field Application to Lower Ganga River Basin
<b>Principal Investigator</b>	Prof. Tinesh Pathania, Assistant Professor, Department of Environmental Science and Engineering, IIT(ISM) Dhanbad, Jharkhand-826004, India, Email: tineshpathania@iitism.ac.in
<b>Tenure of Project</b>	Initially for a period of 1 year and can be extended based on the performance to 3 years. <b>The selected candidate may be considered for a PhD position</b> , subject to meeting the admission criteria of IIT(ISM) Dhanbad.
<b>Job Description (in maximum of 100 words)</b>	The ANRF JRF will be involved in field visits, monitoring IoT sensors, maintaining sensor data records, water sample collection, and laboratory experiments. Further, the candidate will set-up and apply groundwater models (MODFLOW and MT3DMS) for groundwater flow and nitrate transport modelling of the study area, integrate IoT sensor data with groundwater models, calibrate and validate models, and prepare project reports.
<b>Essential Qualification</b>	M.Tech in Environmental Engineering/Environmental Science and Engineering/Water Resources Engineering/Hydrology/Agricultural Engineering/Remote Sensing and GIS OR M.Sc. in Environmental Science, and related fields. Candidate must be <b>GATE/NET qualified</b> . <b>Note: Candidates awaiting M.Tech/M.Sc. results are eligible to apply.</b>
<b>Desirable Qualification</b>	Basic knowledge of MATLAB/Python. Exposure to Finite Difference Method (FDM) or other numerical techniques is desirable.
<b>Age and Relaxation (if any)</b>	Not exceeding 30 years (Age relaxation for SC/ST/OBC/PWD/Female candidate as per GoI rule).
<b>Fellowship</b>	Rs. 37000/- per month for first two years and Rs. 42000/- per month for 3rd year. (20% HRA admissible subject to non-availability of hostel accommodation)
<b>Last Date &amp; Time</b>	Interested candidates should submit the application as a single PDF with scanned self attested copies of all certificates regarding educational qualification, age, and GATE/NET score card, along with their CV by Email to <b>tineshpathania@iitism.ac.in</b> on or before <b>June 30, 2026</b> , by <b>5:00 PM</b> . The subject line of the email should be Application for JRF position under ANRF/ARG/2025/004357/ENS project.

Shortlisted candidates will be informed about 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.

(Signature of PI)