



**Indian Institute of Technology (Indian School of Mines), Dhanbad**  
The Office of Dean, Research & Development

Sanction No and Date: Letter No. CRG/2023/007928 dated 23 February, 2024	<b>IIT (ISM) Project No.:</b> SERB(CRG)(420)/2023-2024/1089/PE	Date: 16.04.2025
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**JRF position under DST Sponsored Project**

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

Position	JRF
Number of Position (s)	ONE
Title of The Project	Synthesis of Bio Based Zwitterionic surfactant for use in Enhanced Oil recovery (EOR) at High Reservoir Temperature Conditions
Principal Investigator	Dr. Tarun Kumar Naiya Professor, Department of Petroleum Engineering Indian Institute of Technology (Indian School of Mines), Dhanbad-826 004, Jharkhand. Email: <a href="mailto:tarunnaiya@iitism.ac.in">tarunnaiya@iitism.ac.in</a> , Mobile: 9471191367
Tenure of Project	Two Years or end of the Project. It may be converted into regular JRF of the Institute at any time as per IIT (ISM) rule.
Job Description (in maximum of 100 words)	1. Synthesis of bio-based Zwitterionic surfactant from natural resources 2. Studies on application of synthesized Bio Based Zwitterionic surfactant for Enhanced oil recovery at different temperature particularly at high temperature
Essential Qualification	M.E./M.Tech in Petroleum Engineering/Chemical Engineering/M. Sc. In Chemistry; with more than 60% marks or equivalent CGPA/OGPA. <b>M. Tech./ M. Sc. Final Year students may also apply.</b> <b>Candidate must be GATE/NET qualified.</b>
Desirable Qualification	Experience/Knowledge in the relevant fields.
Age and Relaxation (if any)	The upper age limit will be 28 years at the time of appointment. A relaxation in upper age limit will be given to SC/ST/OBC (Non-Creamy layer)/ Female candidates as per GOI/DST rules.
Fellowship	<b>Rs. 37000/- + Applicable HRA per month</b> for first two years (from start of the project) and may be extended to one more year with fellowship of <b>Rs. 42000/- + Applicable HRA</b> per month on satisfactory performance
Last Date & Time	15 <sup>th</sup> May, 2025, 11.00 pm
Tentative Date of Interview	22 <sup>st</sup> May, 2025, 10.00 am (Online)
<b>How to Apply:</b> Interested candidates may send hard copy of their applications with attested copies of all degree and experience certificates by speed post and also through Email to Principal Investigator. Eligible and selected candidates will be called for an interview. <b>Please mention project number on the subject of application.</b> <b>Interview will be in online mode.</b>	

PI (Dr. Tarun Kumar Naiya)