

Indian Institute of Technology (Indian School of Mines), Dhanbad

The Office of Dean, Research & Development

Sanction No and Date: Letter No. SYN/2024-25/01, Date: 26.04.2024 SYNTRON/2024-2025/1103/PE Date: 06.05.2024

Junior Research Fellow Position under Sponsored Project of M/s Syntron industries Private Limited, Ahmedabad

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

Position	Junior Research Fellow
Number of Position (s)	ONE
Title of The Project	Developments Tailor-made Surfactants for application in enhanced oil
	recovery
Principal Investigator	Dr. Ajay Mandal
	Professor, Department of Petroleum Engineering
	Indian Institute of Technology (Indian School of Mines),
	Dhanbad-826 004, Jharkhand.
	Email: ajay@iitism.ac.in, Mobile: 9431711017
Tenure of Project	15 months or till end of the project. It may be converted to regular JRF as per
	IIT(ISM) rules.
Job Description (in	1. Synthesis of anionic, cationic, non-ionic surfactants from different
maximum of 100 words)	commercially available fatty-acid esters.
	2. Evaluation of physicochemical properties of surfactants (ST, CMC,
	Thermodynamic properties, IFT, wettability, stability, phase behavior
	etc.)
	3. Optimization of chemical slugs for application in enhanced oil
	recovery.
	4. Core flooding experiments to measure the efficacy of the surfactants in
	enhanced oil recovery.
Essential Qualification	• B.Tech./B.E./M.E./M.Tech in Petroleum Engineering/Chemical Engineering
	or M.Sc. in Chemistry with more than 60% marks or equivalent
	CGPA/OGPA.
	• GATE/NET/Appropriate National Level Examination/ CFTI or IIT Graduates
	having a CGPA/OGPA of 8.0 or above.
Desirable Qualification	NA
Age and Relaxation (if any)	27 years
Fellowship	₹37000/- per month
Last Date & Time	18 th May, 2024, 5.00 pm
Tentative Date of Interview	20 th May, 2024, 10.00 am

How to Apply: Interested candidates may send their applications with self-attested copies of all degree and GATE/NET through email and also by post at the address of Principal Investigator. Eligible and selected candidates will be called for an interview. **The interview will be in video conferencing mode.**

Those who have applied for IIT(ISM) JRF may also apply.