



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

Sanction No and Date: DAR/27/2022, 12/10/2022	IIT (ISM) Project No. DST(SERB)(339)/2022-2023 /930/AGL	Date 29/04/2024
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**Project Staff (JRF/SRF/RA/Project Assistant/Project Associate) position
under DST(SERB) Project**

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

Position	Research Intern
Number of Position (s)	01
Title of The Project	Lithotype control over gas storage, gas permeability, and geomechanical attributes of coal seams: Implications for Coalbed Methane production and carbon dioxide sequestration in India
Principal Investigator	Prof. Ashutosh Tripathy
Tenure of Project	2 Months Internship
Job Description (in maximum of 100 words)	The proposed research aims to understand the bearing of individual lithotype properties on seam-scale sorption, permeability, fracture toughness, and geomechanical attributes. Gas content, transmissivity, and production ability are heterogeneous behaviors dependent on the pore size distribution, textural and thermal maturity, organic and inorganic content, and fracture attributes of the constituent lithotypes. This study involves the use of maceral analysis, low-pressure gas adsorption for pore size analysis, X-ray micro CT analysis, Rock-Eval Pyrolysis, etc.
Essential Qualification	M.Sc./M.sc.Tech/M.Tech/Integrated M.Tech(Geology/Applied Geology/Earth Sciences), B.Tech (Petroleum Engineering/Mining Engineering)
Desirable Qualification	M.Tech (Geoexploration/Engineering Geology), M.Sc.(Applied Geology)

Age and Relaxation (if any)	None
Fellowship	Rs. 5000 per month for an internship tenure of Two months
Last Date & Time	08/05/2024, 11:59 PM
<p>Shortlisted candidates will be informed of the date of the 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 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.</p>	

Ashutosh Tripathy

(Signature of PI)