



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

Sanction No and Date: CRG/2023/000174, 27/06/2024	IIT (ISM) Project No.: SRDP 1151 G	Date: 7.08.2026
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JRF position under (ANRF (SERB)) Project

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

Position	Junior Research Fellow (JRF)
Number of Position (s)	01
Title of the Project	Investigations into the dynamics of the adsorption systems based on waste source-derived indigenously developed adsorbents for the carbon capture application
Principal Investigator	Dr. Satyabrata Sahoo Associate Professor Department of Mechanical Engineering Indian Institute of Technology (ISM) Dhanbad Dhanbad-826004 (Jharkhand) E-mail: satya@iitism.ac.in Phone no.: (0326) 2235147 (Office)
Tenure of Project	The position is purely temporary and co-terminus with the project, which is sanctioned for a period of three years (up to October 2027) .
Job Description	The candidate has to conduct numerical and experimental investigations on the heat and mass transfer modelling of adsorption systems for CO ₂ capture applications. He/she has to develop the experimental setup to study the adsorption of CO ₂ onto various adsorbents, conduct experiments on the experimental setup, and develop activated carbon/MoF. The candidate should have expertise with computational tools such as COMSOL Multiphysics and MATLAB.
Essential Qualification	Graduate degree (Mechanical Engineering, Chemical Engineering, Metallurgical and Material Engineering) in professional courses (B.E. /B. Tech) in First Division with GATE. Or Postgraduate degree (Mechanical Engineering (Thermal/design) / Chemical Engineering/ Metallurgical and Material Engineering) in professional courses (M.E./M. Tech) in the first division, both at the graduate and Postgraduate levels. The applicant should be GATE-qualified.
Desirable Qualification	Knowledge of coding languages, such as Matlab, 3D drawing software SOLIDWORKS and analysis software COMSOL Multiphysics/Ansys Fluent, is preferred. Exposure to high-pressure gas experiments will be preferred.
Age and Relaxation	Upper age limit 35 years as on 1 st Aug 2026 for UR candidates Age Relaxation: As per GoI Norms
Fellowship	DST Norms: Rs. 37,000.00 + HRA
Last Date & Time for submission of application	18/08/2026 (Tuesday), (midnight) Please submit documents through the link: https://forms.gle/vcXAYYz78TGyEoBJ7
Shortlisted candidates will be informed about the interview date (Online/Physical). Mere possession of minimum qualification does not guarantee an invitation to the interview. Candidates will be shortlisted based on their merit and as per the project requirement. 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)