



INDIAN INSTITUTE OF TECHNOLOGY BOMBAY POWAI, MUMBAI 400076.

Advertisement No.: IRCC/EXT030/2024

Job Title

Project Research Scientist

Job Reference Number

50561774

Application End Date

22.02.2024

Type of Employment

Proj. Staff Contract

No. of Position(s)

2

IITB Project Recruitment:

Project title: Assessment of CO₂ Storage Potential Uncertainty and Life Cycle Analysis in Select Fields of ONGC.

About the project: This project entails numerical and experimental studies based on the field inputs, to accurately simulate the reservoir response to CO₂ injection. The studies include resource assessment, geological and geomechanical risk assessment, life-cycle analysis for CO₂ storage in different formations.

Essential Qualifications & Experience:

PhD

OR

MTech/ME/MDes or equivalent degree with minimum 4 years relevant experience

OR

BTech/BE/MA/MSc/MCA/MBA or equivalent degree with 6 years relevant experience

Job Profile:

The Project Research Scientist specializing in Carbon Capture, Utilization, and Storage (CCUS) is equipped with a diverse skill set and is tasked with creating numerical subsurface models using geological and geophysical data. In this pivotal role, the scientist integrates geomechanical, petrophysical, and dynamic data to identify CO₂ storage sinks, assess injectivity, ensure seal integrity, and evaluate depth amidst conditions of uncertainty and risk. The candidate must grasp trapping mechanisms, encompassing structural, stratigraphic, residual, solubility, and mineral trapping. Proficiency in 3D structural, stratigraphic, petrophysical, and fluid saturation modelling is crucial in employing cutting-edge methodologies. Further, The Research Scientist specializing in CCUS should be equipped with a higher order understanding in Industrial Energy Efficiency e.g., CO₂ generation/ emission sources, capture of CO₂, Compression, transportation and injection. The person should also have a good understanding of the Economic aspect of this entire CCS Value chain. Holding a PhD degree in relevant domains of expertise is desirable.

Pay Details:

Level PR-O2: Salary range from Rs.42000 to Rs. 84000 + Rs.7500.00/- Out Of Campus Allowance (if applicable) p.m.

General information:

The position is temporary for a period of 1 year and tenable only for the duration of the project. The appointment is for time bound project and the candidate is required to work mainly for the successful completion of the project. The selection committee may offer lower or higher designation and lower or higher salary depending upon the experience and performance of the candidate in the interview.

Candidates called for interview will be required to attend at his/ her own expenses.

For any queries/clarification please contact: recruit@ircc.iitb.ac.in