

Sanction No and Date:	IIT (ISM) Project No.	Date:
NCL/SGRL/R&D/2022-23/276 03.02.2023	NCL/2022-2023/982/MNE	26/02/23

Development of an Advanced Dragline Simulation Model for Improving the Operational Efficiency of Dragline Operations in NCL.

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

Position	Project Associate
Number of Position (s)	Three(03)
Title of The Project	Development of an Advanced Dragline Simulation Model for Improving the Operational Efficiency of Dragline Operations in NCL.
Sponsoring Agency	Northern Coalfields Limited, Singrauli.
Principal Investigators	Prof. Sheo Shankar Rai, Department of Mining Engineering, IIT (ISM) Dhanbad
Tenure of Project	Upto 31 st August 2024
Job Description (in maximum of 100 words)	 Research fellows will be supposed to carry out some of the following activities either independently or along with PI and Co-PI of the project. Investigation into the existing dragline planning and operational practices of NCL. Detailed analysis of dragline operation data of the test site and identification of gaps in the planning and operating systems of draglines. Generation of hypotheses for making improvements and barriers to the implementation of a new approach. Development of an advanced dragline simulation model using state-of-the-art and industry-standard software. Sensitivity analysis of dragline operation via simulation models to develop options with varying dragline working parameters to identify the most suitable dragline mining methods, digging sequence, excavation geometry, dig block length, etc. Investigations into existing dragline blasting practices at the test site, and identification of gaps in the design of blast.
Essential Qualification	Master's degree/PhD in Mining Engineering / Mining Machinery

	Engineering/ Mechanical Engineering/ Civil Engineering
Desirable Qualification	Preferably two years working experience in project and research in mining sector.
Age and Relaxation	Preferably below 30 years (Relaxation as per GoI norms)
Salary	Rs. 31,000/- per month (Consolidated)
Last Date & Time	10 days from the date of advertisement till 5:00 PM

The candidates are required to submit a copy of their detailed resume with their photograph and enclose all relevant supporting documents regarding age, qualification, and experience through google form within the due date.

https://docs.google.com/forms/d/e/1FAIpQLSeUBcCyvg2seQUINjPw9d9cEyXFFFSZcVe4M0q K4BcgS0yzJQ/viewform?

The candidates are also required to bring the original certificates and supporting documents for verification at the time of joining. For further details, candidates may contact **Prof. B.S. Choudhary**, Co-Principal Investigator, IIT (ISM) Dhanbad Email- **bhanwarschoudhary@iitism.ac.in**

Shortlisted candidates will be informed about the date of the interview. 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 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.