Indian Institute of Technology (Indian School of Mines) Dhanbad

Technology Innovation in Exploration and Mining Foundation (TexMin) under under Ministry of Corporate Affairs, GoI

Advertisement for the Post of Project Associate-I

Project sponsored by Technology Innovation in Exploration and Mining Foundation (TexMin)

Sanction No and Date: **PSF-IH-1Y-011 dated 13.05.2021**	IIT (ISM) Project No.: **TexMin/SEED/2021-2022/08/ME**	Date: **01 August 2021**

Applications are invited for the position of **Project Associate-I (One Post)** in Technology Innovation in Exploration and Mining Foundation (TexMin), Technology Innovation Hub (TIH) sponsored project. The details of the project are as under:

Position	**Project Associate-I**
Number of Position (s)	One (01)
Title of The Project	Development of Predictive Maintenance Solutions for Modern Dragline System
Principal Investigator	**Prof. Sheo Shankar Rai** Department of Mining Engineering IIT (ISM) Dhanbad, 826004, India E-mail: sheoshankar@iitism.ac.in
Co- Principal Investigator(s)	**Prof. Ajit Kumar**, Assistant Professor, Dept. of Mining Machinery Engg., IIT (ISM) Dhanbad **Prof. Shikha Singh**, Assistant Professor, Dept. of Management Studies, IIT (ISM) Dhanbad
Tenure of Project	The position is purely temporary and co-terminus with the project, which is sanctioned for a period of __06 Months__
Job Description	The project work includes a detailed study of maintenance and operational aspects of a Dragline machine. Development and application of industrial internet and computing algorithm (Industry 4.0) is emerging as a new way to increase productivity and utilization of capital-intensive mining assets. The current project is based on big data analytics for predicting the failures of Draglines in a surface coalmine using neural network/machine learning algorithms and develop a predictive maintenance solution for the same.
Essential Qualification	M. E./ M. Tech Degree in Mining Engineering/ Mining Machinery Engineering/ Computer Science and Engineering/ Mathematics and Computing/ Industrial Engineering OR MBA (Business Analytics) B. E./ B. Tech in Mining Engineering/Mining Machinery Engineering/ Mathematics and Computing/ Computer Science and Engineering) With a minimum of First Class or Above from a reputed institute. In case, the class is not specified in the degree then minimum 60% marks 0r 7.0 CGPA/OGPA will be considered as First Class.
Desirable Qualification	Knowledge of Machine Learning Algorithms and Codes, Exposure to Python Language, Ability to learn and perform data analytics, Knowledge of Matlab Software
Age and Relaxation	The upper age limit is 35 years at the time of appointment (Age relaxation for SC/ST/OBC/PH/Female Candidate as per GoI rules)
Fellowship	**Rs. 25,000/- per month**
Last Date & Time for online submission of application	**08 August 2021, 5:00 PM** **Online Application Link: https://bit.ly/3iaKn8m**
Selection Procedure	Interested candidates are requested to fill the online application form (as per the link provided) and must attach all the supporting documents (e.g., self-attested copies of educational qualifications, experience certificate, age proof, valid caste certificate (if applicable), first page of publications (if any), CV with Photograph, GATE/NET certificate, etc.

Shortlisted candidates will be informed through email about the interview. The interview will be on Online Mode (Zoom/Google Meet). Mere possession of minimum qualifications does not guarantee an invitation to the interview. Candidates will be short-listed based on their merit and as per the requirement of the project.

(Signature of PI)