



## 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: <b>PSF-IH-1Y-011 dated 13.05.2021</b>	IIT (ISM) Project No.: <b>TexMin/SEED/2021-2022/08/ME</b>	Date: <b>03 August 2021</b>
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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:

<b>Position</b>	<b>Project Associate-I</b>
<b>Number of Position (s)</b>	One (01)
<b>Title of The Project</b>	Development of Predictive Maintenance Solutions for Modern Dragline System
<b>Principal Investigator</b>	<b>Prof. Sheo Shankar Rai</b> Department of Mining Engineering IIT (ISM) Dhanbad, 826004, India E-mail: sheoshankar@iitism.ac.in
<b>Co- Principal Investigator(s)</b>	<b>Prof. Ajit Kumar</b> , Assistant Professor, Dept. of Mining Machinery Engg., IIT (ISM) Dhanbad <b>Prof. Shikha Singh</b> , Assistant Professor, Dept. of Management Studies, IIT (ISM) Dhanbad
<b>Tenure of Project</b>	The position is purely temporary and co-terminus with the project, which is sanctioned for a period of <b>06 Months</b>
<b>Job Description</b>	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.
<b>Essential Qualification</b>	M. E./ M. Tech Degree in Mechatronics/Design/CAD/CAM/Material Science & Engineering/Mining Engineering/ Mining Machinery Engineering/ Computer Science and Engineering/ Mathematics and Computing/ Industrial Engineering OR MBA (Business Analytics) B. E./ B. Tech in Mechanical Engineering/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 Or 7.0 CGPA/OGPA will be considered as First Class.
<b>Desirable Qualification</b>	Knowledge of Maintenance aspects of Equipment/Heavy Vehicles, Have Prior Knowledge of Developing Predictive Maintenance Solutions/Algorithms, Machine Learning Algorithms and Codes, Exposure to Python Language, Ability to learn and perform data analytics, Knowledge of Matlab Software
<b>Age and Relaxation</b>	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)
<b>Fellowship</b>	<b>Rs. 25,000/- per month</b>
<b>Last Date &amp; Time for online submission of application</b>	<b>10 August 2021, 5:00 PM</b> <b>Online Application Link: <a href="https://bit.ly/3iaKn8m">https://bit.ly/3iaKn8m</a></b>
<b>Selection Procedure</b>	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)