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

Sanction No and Date: CRG/2019/000384 dated Feb.18, 2020	**IIT (ISM) Project No.** DST(SERB)(249)/2019-2020/696/EE	**Date:** April 07, 2020

JRF position for the Project under Core Research Grant of Science Engineering Research Board

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	Execution of a Common Approach for Current Sensor Fault-Tolerant Control of Induction Motor Drives in Different Control Regimes
Principal Investigator	Prof. Sukanta Das, Assistant Professor, Department of Electrical Engineering, Indian Institute of Technology (ISM), Dhanbad, Jharkhand-826004. Email: asksukanta@iitism.ac.in Mobile: 7667458474, 9471191348
Tenure of Project	03 years.
Job Description (in maximum of 100 words)	The objective of the project work is to design, develop and validate an observer for current sensor fault-tolerant control of IM drive capable of operating in three different control regimes such as field oriented control, direct torque control and finite-control-set-model predictive control. The work involves analytical development, simulation study and experimental work.
Essential Qualification	B.E./B.Tech. in Electrical Engineering/Electrical & Electronics Engineering with first class, ME/M.Tech. having specialization in Electrical Machines and/or Electrical Drives and/or Power Electronics or in related field with first class.
Desirable Qualification	Valid Gate Score. Candidates having prior knowledge in the relevant research area with good experimentation skill will be preferred.
Age and Relaxation (if any)	The upper age limit is 28 years at the time of appointment. Age relaxation for SC/ST/OBC/PH candidates is as per GOI rules.
Fellowship	Rs. 31,000/- for 1st and 2nd year. Rs. 35,000/ for 3rd year.
Last Date & Time	Interested and eligible candidates are requested to send a signed scanned copy of their CV, Graduation (both UG and PG) mark sheets and certificates, and age proof as a single pdf file to the Principal Investigator on or before April 30, 2020 by email at asksukanta@iitism.ac.in.
Shortlisted candidates will be informed on the date of interview. Mere possession of minimum qualification 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. 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)