10th April 2019

Advertisement

Applications are invited for a contract position of Project Associate in the project entitled "Intelligent Power Management System (IPMS) for monitoring, diagnosis & prognostics of electric loads in Armored Fighting Vehicles " sponsored by Defense Research and Development Organization, New Delhi (under Project No. RES/DRDO/CL/P0128/1819/0007).

Brief Description of Project

The objectives of the project are:

1. Design and development of an Intelligent Power Management System (IPMS) for Armored Fighting Vehicles (AFV) that can smartly manage the loads according to the priority and mode of the vehicle. The proposed IPMS module will log the current & voltage values of hull loads, turret loads and battery pack. To demonstrate the utility of this generic IPMS module, a hardware setup of this module will be developed and evaluated in Arjun MBT.

2. Based on the current and voltage values logged by the IPMS, a multiple Fault detection and identification (FDI) framework with various levels of granularity (based on decision fusion) for diagnostic and prognostic health management of critical AFV loads in the hull (such as fuel pump, Blige pump, dust evacuator motor, brake motor, starter motor, generator) and turret (Hydraulic motor, NBC blower) will be developed.

3. The developed fault detection algorithm will operate in real-time and provide necessary indications regarding the health of the loads while fault diagnosis algorithm will provide a detailed analysis of the root cause of the faults in off-line mode

Details of the positions:

Project Title	:	Intelligent Power Management System (IPMS) for monitoring, diagnosis & prognostics of electric loads in Armored Fighting Vehicles
Ref. No.	:	RES/DRDO/CL/P0128/1819/0007
Name of Post	:	Project Associate
Consolidated Monthly Pay	:	Rs 28,800/- (Including HRA)
Qualification and Experience	:	ME/M. Tech students in Electrical/Instrumentation Engineering. Candidates with B. Tech degree can also apply. However, it is required that they have a minimum of three years' experience in instrumentation or relevant fields. Candidates with experience in Rasberry Pie, Arduino programming, IOT and industrial automation projects will be preferred. The candidate is expected to work from Chennai for the initial contract duration and locally reporting to Dr. Prabhavathi, Scientist G., CVRDE. The candidate is also expected to travel to

		IITGN few times during this period.
Tenure	:	**The initial contract is for six months.**

Interested candidates may submit their applications online at the link given below on or before 28th April 2019.

Selection will be based on interview and shortlisted candidates will be intimated well in advance the date, time and mode of interview.

Please email your detailed resume to babji.srinivasan@iitgn.ac.in

For more details regarding the project, you may contact:

Dr. Babji Srinivasan,
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