



# VISVESVARAYA NATIONAL INSTITUTE OF TECHNOLOGY

South Ambazari Road, Nagpur – 440 010

Maharashtra

Advertisement: Department of Electrical Engineering, VNIT Nagpur

Date: 12/10/2021

## Call for the position of Project Associate-I for the project titled “Solid State Transformer Technology for Emerging Trends in Electric Mobility and DC Micro-Grid” under Abdul Kalam Technology Innovation National Fellowship.

Reference: INAE/121/AKF/28

Applications are invited from motivated and eligible candidates for **two numbers of Project Associate-I** for the project titled “*Solid State Transformer Technology for Emerging Trends in Electric Mobility and DC Micro-Grid*” under Abdul Kalam Technology Innovation National Fellowship funded by Indian National Academy of Engineering.

**Project Associate-I** are required to work on the topics:

- 1) Integrated control of electric vehicle charging system using High Frequency Planar Magnetics and Wide Band Gap Devices.
- 2) Design of bi-directional, isolated and soft-switched converter for automotive and traction application.
- 3) Development of resilient Industrial DC back-up system for critical loads in industry and DC Microgrid.

*Project Associate-I may also get an opportunity to register for Ph.D under the aegis of this project.*

### Essential Qualification

M.Tech/M.E. (*GATE/CSIR-UGC NET qualified in past*) in Power Electronics and Drives/ Power System/ Energy Systems and related specialization with thesis in the area of Power Electronics/Power System/Electric vehicles/renewables.

### Desirable Qualification

Analytical and experimental activities during M.Tech for the development in power electronics/power system with renewable sources having concluding understanding; knowledge of PCB design and experience with technical software/tools (*such as PSIM, MATLAB, Code-composer*) for the simulation studies, and microcontrollers.

### Age Limit:

30Yrs preferably.

### Fellowship

First two years (@ 31000/- + 16% HRA pm) and next one Year (@35000/- + 16% HRA)

### Duration

At the beginning assignment will be for the Six months, which can be extended in every six-month based on the performance and approval by the competent authority till the maximum duration of the project.

### How to apply

Interested candidates are requested to submit application in proper format (*available online on institute website*) and detailed curriculum vitae

- highlighting and describing the required exposures mentioned in desirable qualification
- at least two reference (*phone no. and email id*) including B.Tech and M.Tech thesis Supervisors
- abstract of Master’s thesis, and
- relevant certificates/evidences
- Transcript/Marksheet

through email to the **Principal Investigator**, by **November 8, 2021**. Shortlisted candidates will be intimated through email by **November 11, 2021**. Shortlisted candidates will have to report for the *in-person/ online interview* and written test on **November 15, 2021 (10:00AM)** in Electrical Engineering Department, VNIT Nagpur.

### Note:

1. No TA/DA will be paid for to appear in interview.
2. Decision of Director VNIT Nagpur will be the final in all respect.

### Correspondence address: Principal Investigator

Prof. H.M Suryawanshi, *FNAE, FIEEE*

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