



# VISVESVARAYA NATIONAL INSTITUTE OF TECHNOLOGY

South Ambazari Road, Nagpur – 440 010

Maharashtra

Advertisement: Department of Electrical Engineering, VNIT Nagpur

Date: 21/11/2023

## Call for the position of JRF/SRF for the DST funded Renewable Energy EMPOWERING European and Indian Communities (RE-EMPOWERED) under EU-India Horizon 2020 Program

Reference: DST/TMD/INDIA/EU/ILES/2020/50(G)

Applications are invited from motivated and eligible candidates for **two numbers of Junior Research Fellow (JRF)/ Senior Research Fellow (SRF)** for the **Renewable Energy EMPOWERING European and Indian Communities (RE-EMPOWERED) under EU-India Horizon 2020 Program** of Government of India and European Union funded by Department of Science and Technology under Innovation Technology Development and Deployment. JRFs are required to work on the topics:

1. Development & deployment of Charger, Charging Station and high-power dc-dc converter
2. Demand response, forecasting, energy management for a PV/wind/biomass fed micro-grid with energy storage, and overall system stability.

JRFs may get opportunity to work with collaborating European Institutes (ICL UK, NTUA Greece, DTU, Denmark) and National Institutes (IIT Kgp, IIT BBS, IISC Bangalore, IIT Delhi, CMERI Durgapur) as per the requirements.

### Essential Qualification

1. JRF: M.Tech/M.E. through: *GATE (qualified in past)* or through the selection process of National level examinations conducted by Central Government Departments and their Agencies and Institutions such as DST, DBT, DAE, DOS, DRDO, MoE, ICAR, ICMR, IIT, IISc, IISER, NISER etc. in specialisations: Power Electronics and Drives/ Power System/ Energy Systems and related specialization with thesis in the area of Power Electronics/Power System/Electric vehicles/renewables.
2. SRF: Qualification prescribed for JRF with two years of research experience

### Desirable Qualification

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

### Age Limit:

Preferable 30Yrs as on the day of Interview.

### Fellowship

JRF: @ 37000/-(*Consolidated*) SRF: @42000/-(*Consolidated*); Note: 16% (*or as per norm*) HRA is applicable in case of non-availability of hostel accommodation.

### 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 (*End date: December 2024*).

### 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 three 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 **December 11, 2023**. Shortlisted candidates will be intimated through email by **December 12, 2023**. Shortlisted candidates will have to report for the *in-person interview* and/or written test on **December 20, 2023 (10:30AM)** 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: Principle-investigator

Dr. Ritesh Kumar Keshri, Associate Professor  
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