



VISVESVARAYA NATIONAL INSTITUTE OF TECHNOLOGY

DEPARTMENT OF ELECTRICAL ENGINEERING

South Ambazari Road-440010, Nagpur, Maharashtra

Requirement of JRF (2 No.s) in the Department of Electrical Engineering

Applications are invited from motivated and eligible candidates for the post of **JRF** to work on Rajiv Gandhi Science and Technology Commission (**RGSTC**), Maharashtra funded research project.

Title of the project	An Intelligent and Cost-Effective Solar PV Pumping System with Open-End Stator Wound Permanent Magnet Motor (i-Solar PMM-PUMP)
Scope of Project	The project is intended to design and develop a 5HP permanent magnet motor with open-end stator winding and its controller for solar water pumping applications. The design will be carried out using ANSYS and MATLAB software followed by the hardware development and testing using major facilities like Magnetizer, PV Emulator, Universal Motor Test Bench, etc. The project outcome will be an efficient and cost-effective CPRI certified PV water pump; while the field deployed pump in a nearby village will be one of the deliverables. For more information, candidates can contact Dr. Ramsha Karampuri.
Name of the Post	Junior Research Fellow (JRF)
No. of posts	02
Duration	The post is purely temporary in nature. Initial appointment is for the period of one year, which can be extended up to THREE years solely based on satisfactory performance (maximum till project end date).
Min. Educational Qualification & Eligibility Criteria	Master's or equivalent degree in Electrical Engineering / Mechanical Engineering or other allied disciplines with <u>6.5</u> CGPA and above at both UG and PG (GATE Qualified)
Desired qualification	Good academic record and skill set relevant to the project
Ph.D. Opportunity	The selected candidate will have the opportunity to register for a regular PhD program provided the candidate satisfies the eligibility criterion for the PhD program at VNIT Nagpur (https://vnit.ac.in/section/academics/admission/)
Details of Emoluments	Rs. 37,000/- per head per month + HRA
Mode of application	Interested candidates are requested to apply in the prescribed format (available online on institute website www.vnit.ac.in) by 27th February, 2026 . <i>05th March, 2026</i> . The duly filled application form along with all the enclosures (detailed curriculum vitae, degree certificates, GATE/NET scorecard and other relevant documents) must be sent as a single pdf file to the principal investigator at following email address: ramshakarampuri@eee.vnit.ac.in Please mention "Application for the Post of JRF (RGSTC project) in the Department of Electrical Engineering" in the subject line of email. Provide complete information about all essential eligibility conditions.
Contact Details of PI/Co-PI	Dr. Ramsha Karampuri (Principal Investigator) Assistant Professor, Department of Electrical Engineering, Visvesvaraya National Institute of Technology, Nagpur – 440010 Maharashtra. Phone: +91-8143952895 Email: ramshakarampuri@eee.vnit.ac.in
Important notes	Only short-listed candidates will be intimated by email and will have to appear for a written test and/or interview on the date as communicated through email. Online interview may be conducted on request with genuine reason, however physical interview is more preferable. No TA/DA will be paid for appearing in the interview. The decision of the Director, VNIT Nagpur will be final in all respect.

Dr. Ramsha Karampuri (PI)

HOD

Associate Dean (Research)

Dean R&C