



Ref. No. VNIT/MECH/PVK/SERB-CRG/JRF/2023

Date: 15.03.2023

**Advertisement for the Position of Junior Research Fellow under the SERB Project (CRG/2022/004780)**

Applications are invited for the post of **Junior Research Fellow (JRF)** to work in - Science & Engineering Research Board (SERB) funded research project. The details are as follows:

S. No.	Particulars	Details
1	Title of the Research Project	Investigation of Design Modifications of Switched Reluctance Motor to reduce vibrations and noise in Electric Vehicle
2	Name of the Temporary Post	<b>Junior Research Fellow (JRF)</b>
3	Duration of the Project	03 Years (Maximum)
4	Tenure of Assignment	The appointment is on a <b>contract basis</b> upto a maximum period of three years subject to <b>satisfactory performance</b> evaluation <b>every Six months.</b>
5	No. of positions	01 (ONE)
6	Essential Qualifications	B.E/B.Tech(Mechanical//Electrical/Electrical and Electronics Engineering) <b>and</b> M.Tech in relevant specializations of Mechanical /Electrical/Electrical and Electronics Engineering with minimum 60% marks (or a minimum CGPA of 6.5 on a 10 point scale) <b>and</b> Qualified <b>GATE score.</b>
7	Desirable Qualifications/ Experiences	Analytical and experimental activities during M.E/M.Tech such as the Vibration Analysis / Condition monitoring of machines with concluding understanding, knowledge and experience with technical software/tools (MATLAB/SIMULINK, ANSYS, etc.) for simulation studies and knowledge of Digital Signal Processing. Good analytical ability and competency in technical writing skills.
8	Consolidated monthly Fellowship/Stipend	<b>Rs. 31,000/-</b> per month <b>consolidated</b> (for the 1 <sup>st</sup> and 2 <sup>nd</sup> year) and <b>Rs. 35,000/-</b> per month <b>consolidated</b> (for the 3rd year)
9	Job Description	Research project implementation, documentation and whatever is needed to execute the project successfully. He / She may be assigned any duty within or outside the Institute depending upon the exigency of the work.
10	Principal Investigator (PI) and Co-PIs	Dr. Prasad V. Kane, Dr. A.B. Andhare, and Dr. M.M. Lokhande
11	Department	Mechanical Engineering

12	PhD Opportunity	The selected candidate is eligible to register for Ph.D. degree at VNIT Nagpur as per institute rules. However, he/she <b>needs to apply</b> for Ph.D. position when the <b>PhD advertisement</b> of the institute is open.
13	Submission mode	<ol style="list-style-type: none"> <li>1. Candidates shall build a <b>Single PDF</b> file (filled-in application form along with supporting documents); <b>Soft copy of the proforma</b> of the application is available on website of the Institute.</li> <li>2. It is to be sent through Email to Principal Investigator Dr. Prasad V. Kane, Assistant Professor, Department of Mechanical Engineering, VNIT Nagpur, email ID: <a href="mailto:pkane@mec.vnit.ac.in">pkane@mec.vnit.ac.in</a> <b>on or before 30.03.2023, 11:59 pm.</b></li> <li>3. The candidates are also required to produce relevant documents mentioned in the application form (such as original of all mark sheets and certificates, research papers (if any), experience certificate (if any) etc.) at the time of the interview.</li> <li>4. No hard copies of the application will be accepted.</li> <li>5. <b>Only the shortlisted candidates will be informed by Email.</b></li> </ol>
14	Important Dates	<ol style="list-style-type: none"> <li>1. Last date for receipt of application : <b>30<sup>th</sup> March 2023, 23:59 hrs</b></li> <li>2. Shortlisted candidates will be communicated by email on <b>1st April 2023 by 5.00 pm.</b></li> <li>3. Date and Time for the Offline Interview : <b>05<sup>th</sup> April 2023 at 10.30 am (Tentative)</b></li> </ol>
15	Venue	Department of Mechanical Engineering, Visvesvaraya National Institute of Technology, Nagpur- 440022, Maharashtra, India
16	Documents Required	Applicant should bring all original certificates including mark sheets (matriculation onwards), qualified GATE score card, experience certificate(s), monthly emoluments/salary drawn, publications and other relevant documents (including one set of self-attested certificates, updated CV and filled-in application form).
17	Note	<ol style="list-style-type: none"> <li>1. The selection procedure consists of Written Test and/ Interview (offline).</li> <li>2. No TA/DA will be paid for attending the Interview.</li> <li>3. The decision of the Director, VNIT Nagpur will be final in all respect.</li> <li>4. Candidate is expected to join immediately.</li> </ol>

#### **General Instructions to the applicants:**

1. Selected candidates shall not have a claim on any regular position and shall not be bestowed any of the privileges like Housing, Medical Facility, and Other benefits available to regular employees of the Institute.
2. Applicants are advised to ensure, before appearing for Selection Process, that they possess the minimum essential qualification and experience laid down for

the post. The qualification obtained has to be from a recognized University/Institute.

3. In case of any inadvertent mistake in the process of selection, which may be detected at any stage even after issue of the appointment letter, the Institute reserves the right to modify, withdraw or cancel any communication made to the Applicants.
4. After joining, the person will have to abide by the Rules, Regulations, Ordinances, Statutes and Acts of the Institute applicable from time to time. He / She may be assigned any duty within or outside the Institute depending upon the exigency of the work.
5. The Institute shall verify the antecedents or documents submitted by a person at the time of appointment or during the tenure of the service. In case it is detected that the documents submitted by the candidates are fake, or the person has a clandestine antecedent or background and has suppressed the said information, then his/her services shall be terminated forthwith and legal action may be initiated against such candidates/employees.
6. In case of any dispute/ambiguity that may occur in the process of selection, the decision of the Institute shall be final.

For technical information on the project, the candidate may contact the Principal Investigator at the following address:

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of Technology, Nagpur-440010,  
Maharashtra, India.  
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