



**DEPARTMENT OF ELECTRICAL & ELECTRONICS ENGINEERING  
NATIONAL INSTITUTE OF TECHNOLOGY KARNATAKA  
SURATHKAL, SRINIVASNAGAR - 575025, MANGALORE,  
KARNATAKA, INDIA**

**Advt. No.:** NITK/EE/SERB/EEQ/2023/508

**Dated:** 30/01/2025

**Advertisement for the Position of JRF**

Applications are invited from the interested candidates for the post of JRF to work on the R&D project titled "Sophisticated Optimised DC-DC Converter for Charging Electric Vehicle Using Reliable GaN devices and Planar Magnetics" supported by Science and Engineering Research Board (SERB), New Delhi. The selected candidate will be appointed initially for one year (on contract).

S No.	Position	Area of Specialization	Maximum Duration	Consolidated Salary	Number of Positions
1.	Junior Research Fellow	Power Electronics	1 Year	Rs. 35,000	One (01)

**Eligibility:**

**Educational Qualification:**

B.E./B.Tech in Electrical & Electronics Engineering/Electronics & Communication Engineering and M.Tech. equivalent in Electrical & Electronics Engineering/Electronics Engineering with expertise in Power Electronics. Candidates must have at least 7.5/10 CGPA or 75 percent marks in PG Degree in aggregate from a recognized Technical Institute or University as a Full-Time program. Proof of M.Tech./M.E. certificate has to be provided during the time of interview.

**Desirable:** GATE qualified. Expertise in MATLAB, PSCAD simulations, experience in development of power electronics hardware, experience in FPGA, DSP coding and project management. Candidates without a GATE score may still be eligible if they have strong expertise in Power Electronics and Hardware Implementation.

**Note:-** The candidate is encouraged to register for Ph.D. at NITK, Surathkal.



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Interested candidates must apply with the following documents: (1) JRF Application form (2) CV with passport-sized photograph, (3) Scanned copies of educational certificates and mark sheets from class XII onwards (4) GATE qualified certificate and (5) Scanned copies of Proof for research experience, special achievements and publications, if any. **The soft copies of all the above documents as single pdf with file name as “YOUR\_NAME\_JRF.pdf” must be emailed to the Principal Investigator (Dr. R Kalpana) on or before 6<sup>th</sup> February 2025 with subject “Application for JRF”. No need to send the Hardcopies of the certificates.** The email address for correspondence is given below. No TA/DA will be paid for attending the written test/interview. The appointment will be on a purely temporary basis co-terminus with the project. Candidates who are already employed should produce relieving certificate from their employers, if selected. **The shortlisted candidates with the date of written test/interview will be intimated by email only.**

**Address for Correspondence:**

To  
**Dr. R. Kalpana**  
Principal Investigator and Assistant Professor,  
Dept. of Electrical & Electronics Engineering,  
NITK Surathkal, Mangalore,  
Karnataka, India -575025

Telephone: 0824-2473468  
Email: [kalpana@nitk.edu.in](mailto:kalpana@nitk.edu.in)



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**Application for the Position of Junior Research Fellow under SERB**

1. Post Applied for: JRF-Junior Research Fellow

2. Name of the Candidate (BLOCKLETTER):

3. Father's Name (BLOCKLETTER):

4. Mother's Name (BLOCKLETTER):

5. (a) Date of Birth: (DD/MM/YYYY) \_\_\_\_\_

(b) Sex (Male/Female/Other): \_\_\_

(c) Marital Status: Married/Single

(d) Category: SC/ST/OBC/PWD/Open

6. Previous Research experience: (use additional sheet if required) \_\_\_\_\_

7. Publication(s), if any: (use additional sheet if required) \_\_\_\_\_

8. GATE/ NET (if any): Qualified (Yes/No): Score: \_\_\_\_\_ Rank: \_\_\_\_\_

Specialization: \_\_\_\_\_ Year: \_\_\_\_\_

Paste here a  
recent passport  
size photograph



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9. Academic Qualification: (Starting from Standard 10 or equivalent Examination)

<b>Name of Exam Passed</b>	<b>Name of the School/College/Institute/University</b>	<b>Year of Passing</b>	<b>Discipline/Specialization</b>	<b>Percentage of Marks/CGPA</b>

10. (a) Address for Communication: (BLOCK LETTER):

(b) Contact No (Mob):

(c) E-mail ID :

11. Contact Details of two referees:

	<b>Referee I</b>	<b>Referee II</b>
Name		
Designation		
Organization		
Office Address		
Phone Number		
Email ID		



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12. Experience if any (in years and use additional sheet if required)

13. Declaration:

I do hereby declare that the information furnished in this application is true to the best of my knowledge and belief. If selected, I promise to abide by the rules and regulations of the Institute.

Date:

Place:

Signature

**Note-** If any information is required, extra A4 sheet may be attached.