



राष्ट्रीय प्रौद्योगिकी संस्थान दिल्ली  
NATIONAL INSTITUTE OF TECHNOLOGY DELHI  
(शिक्षा मंत्रालय, भारत सरकार के अधीन एक स्वायत्त संस्थान)

(An autonomous Institute under the aegis of Ministry of Education (Shiksha Mantralaya), Govt. of India)  
Plot No. FA7, Zone P1, GT Karnal Road, Delhi-110036, INDIA  
दूरभाष/Tele: +9111-33861000, 1001, 1005 फ़ैक्स/ Fax: +9111-27787503  
वेबसाइट/Website: [www.nitdelhi.ac.in](http://www.nitdelhi.ac.in)

June 15<sup>th</sup>, 2023

**ADVERTISEMENT FOR JUNIOR RESEARCH FELLOW (JRF) under the SERB Project**

(F.No: SERB/CRG/2020/001120)

Applications in the prescribed formats are invited from highly motivated and dynamic eligible candidates for one position of **Junior Research Fellow (JRF)** in the following DST- Science & Engineering Research Board (SERB), Core Research Grant (CRG) scheme, Govt. of India sponsored research project:

**Project Title:** DESIGN AND DEVELOPMENT OF SWITCHED RELUCTANCE MOTOR DRIVE FOR PLUG-IN HYBRID ELECTRIC VEHICLES WITH VOLTAGE BOOSTING & ON-BOARD CHARGING CAPABILITIES.

**Funding Agency:** DST- Science and Engineering Research Board (SERB) under CRG scheme, Government of India

**Project Duration:** Three (03) years or position is coterminous with the project.

**Principal Investigator (PI):** Dr. Obbu Chandra Sekhar, Department of Electrical Engineering, NIT Delhi

**The minimum essential and desirable qualifications for the project posts are as follows:**

Name of the Position	Junior Research Fellow (JRF), One (01)
Eligibility	First division/class in B.Tech and M.Tech or M.E degree in relevant discipline (Electrical Engineering / Electrical and Electronics) and with a GATE/NET Qualified. The candidate having expertise in MATLAB, ANSYS MAXWELL Software Simulations, experience in development of Power Electronics hardware, experience in FPGA, DSP coding and Project management will be preferred.
Duration	The position is purely on contract basis with the initial appointment for a period of one (01) year.
Fellowship	As per the present terms and conditions of the DST-SERB (CRG) project. Rs. 31,000/- (for the first 2 years) and Rs. 35,000/- pm (for the 3rd year) plus House Rent Allowance (HRA) as per the norms of GOI
Desirable Qualification & Experience:	Prior knowledge of Power Electronic Converters, Switched Reluctance Motor and Hybrid Electric Vehicles
Nature of appointment	It will be governed by the administrative rules conditions of Research & Consultancy NIT Delhi / institute norms.
Other Benefits	The selected candidate shall be encouraged to register for Ph.D at NIT Delhi as per institute norms.
Age Limit	Not exceeding 30 years (for JRF) as on the closing date of the application. Age relaxation as per GOI norms.

## HOW TO APPLY:

The proforma of application is attached with this advertisement. Complete and send to an email [obbuchandra@nitdelhi.ac.in](mailto:obbuchandra@nitdelhi.ac.in) along with the Bio data/CV and scanned copy of certificates. Eligible and Interested candidates should have to upload the following documents:

- a) Completely filled in application form in the attached format.
- b) Self-attested copies of the relevant certificates/documents as a single merged pdf file.

After that, a single pdf file with the subject line: “**Application for JRF Position under SERB Project**” be addressed to the Principal Investigator (PI) of the project. **Dr. Obbu Chandra Sekhar** through an email- addressed to [obbuchandra@nitdelhi.ac.in](mailto:obbuchandra@nitdelhi.ac.in) on or **before 25<sup>th</sup> June, 2023**.

## INSTRUCTIONS:

1. Applications, which are not in the prescribed format and partially filled, shall be summarily rejected. No correspondence shall be entertained in this regard.
2. **The last date of receiving applications is 25<sup>th</sup> June , 2023.**
3. No TA/DA is permissible for appearing in the interview and joining in case of selection.
4. The selected candidate shall be encouraged to apply and register for PhD Programme of the Institute as per the prevailing norms. Preference may be given to candidates willing to pursue Ph.D degree at NIT Delhi.
5. Appointment will be purely project based temporary position as per the SERB norms.
6. **The date of interview (tentatively along with the shortlisted candidates called for interview will be displayed on the Institute's website or informed through email by PI.**
7. Candidate shall bring along with them the original degree(s)/certificate(s) and experience certificate(s) at the time of interview for verification.
8. Candidates will be informed by e-mail about the interview date. So, candidate must provide valid e-mail IDs in their Applications.
9. The applicant will be responsible for the authenticity of information, other documents and photographs submitted.
10. Selected candidate will have to join assignment immediately on the receipt of the offer letter.
11. Appointed candidate will be placed at the National Institute of Technology Delhi and appointment will be made purely on temporary basis initially for a period of one year and can be extended up to the completion of the project based on the performance. The contract will also include a one-month notice period wherein if the candidate selected wants to discontinue the project he/she will have to inform the PI one month in advance and in case PI is not satisfied with the performance of the candidate, he will need to inform the candidate one month prior to termination of contract.
12. Any queries related to the above post must be addressed to: **Dr.Obbu Chandra sekhar,**  
Email : [obbuchandra@nitdelhi.ac.in](mailto:obbuchandra@nitdelhi.ac.in)

**Dr. Obbu Chandra Sekhar**  
Principal Investigator, DST –SERB Project (CRG Scheme)  
Associate Professor, Department of Electrical Engineering,  
National Institute of Technology Delhi  
Plot No. FA7,Zone, P1, GT Karnal Rd, Delhi, 110036  
Email : [obbuchandra@nitdelhi.ac.in](mailto:obbuchandra@nitdelhi.ac.in)  
Phone No.: +91-9440343273

## Copy to:

1. PS to Hon'ble Director (for kind information).
2. Dean (R&C).
3. Head of Department, EED.
4. Office of Registrar.
5. Computer Centre (for displaying the advertisement on the Institute website).
6. Office Copy/Project File.
7. Institute Notice Boards.



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Application Form for Position of JRF under SERB Project  
(F.No: SERB/CRG/2020/001120)

Application for the post of .....

**A. Personal Details:**

1.	Name (in block letters):		Attach a Passport size Photograph
2.	Father's Name:		
3.	Date of Birth:		
4.	Gender :		
5.	Email Address:		
6.	Marital Status (Single /Married )		
7.	Contact Number (s):		
8.	Address for correspondence:		
9.	Permanent Address:		
10.	Category (Gen./OBC/SC/ST):		
11.	Aadhar Number		

**B. Educational Details:**

Degree	Subjects	University/Institution	Year of passing	Grade or % of marks
10 <sup>th</sup>				
12 <sup>th</sup>				
BE/B.Tech				
ME/M.Tech				
Other				

### C. Experience Details (Teaching/ Industry/ Research)

(In reverse Chronological order i.e. starting with latest, experience first)

S. No.	Organization	Designation	Nature of Work	Duration	Salary

### D. Details of GATE/NET Qualification

Qualification Year	
Discipline	
Score	
Rank	
Marks Obtained	
Validity	

### E. Other Details

Details of Professional Skills	
Title of project dissertation	
How the above position is helpful in meeting your career goal (Max 250 words)	Attach a separate sheet
Details of Research Publications (If any)	Attach a separate sheet
Any other relevant information	
References (Two) (Name of two referees who are familiar with your academic and research background)	1. _____ 2. _____

### DECLARATION

I hereby declare that the above information is correct to the best of my knowledge and belief. I understand that my candidature will be cancelled if any information is found incorrect at any given period of time.

Date:  
Place:

(Signature of the applicant)  
Name of the Candidate:

### Note:

1. Original Certificate with one copy to be brought at time of Interview only.