



ACCREDITED BY NAAC

**CENTER FOR NANO SCIENCE AND TECHNOLOGY****INSTITUTE OF SCIENCE AND TECHNOLOGY****[AUTONOMOUS]****JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY HYDERABAD**

(Established by Govt. Act No. 30 of 2008)

Kukatpally, Hyderabad – 500 085, Telangana (India)

Ref : SERB/F/7867/2019-2020

Dt : 31-12-2019

NOTIFICATION

Applications are invited for the following positions in the DST-SERB project, Government of India sponsored project, “A new archetype for development of Flexible Nano Hybrid Supercapacitor for large scale electric energy storage with high performance ”only from qualified candidates. Interested candidates are requested to send their applications in the prescribed format (attached with this advertisement) to the Principal Investigator on or before **07/01/ 2020 (4:30pm)** and attend(only those candidates who strictly meet the qualifications)an interview on **08/01/2020 at 10.30AM** in the cabin of the Principal Investigator, Centre for Nano science and technology, IST, JNTUH at the address given above. Applicants meeting the eligibility criteria will only be interviewed.

Positions	Qualification & Experience	Consolidated Pay per month (Rs)	Duration
JRF- 1*	Qualification : M.Sc in Physics/ Chemistry Or M.Tech (Nano technology/ Chemical engineering/ Materials engineering or Equivalent) (*Must have qualified any one of UGC/CSIR-NET/ GATE) Experience: Synthesis of nanomaterials, hands on experience on cyclic Voltammetry and fabrication of electrodes.	As per DST guidelines	3 Years.

About the project: In the contemporary world, energy seems to be ever increasing demand for households and industries who require extreme energy to be stored and delivered at any time. Existing production of energy face some problems, the climate of the increasing environment pollution and drain of fossil fuels. Renewable energy sources also infeasible along the year so necessitous to develop clean, efficient, safe and economically sophisticated methods to store energy.

To overcome the consequences traditional ways are hybrid storage methods like Batteries, fuel cells and Supercapacitors (SCs). SCs are emerging and rapidly developing electrical energy storage technology that provides significant robustness and efficiency benefits over alternative energy storages. SCs have very high capacity and a low internal resistance, that are capable to store and deliver energy at relatively vast rates as compared to batteries.

Current problem is important because the future is mostly depends on the hybrid energy storage devices to store electrical energy and release when it required. Solving the problem produce sophisticated energy storing devices with removal of existing challenges and improve parameters like low cell voltages, high-self discharge rates, larger volume, higher cost, lower energy density and engage larger area. Solving the problem contribute to the benefits, affordable devices with least possible weight, larger surface area, higher efficiency, least production cost, Higher energy density, large power density, high specific capacitance, quick charge and improved discharge rates, wide operating temperature ranges, improved cell voltages.

**Proforma of application for the post
In the DST –SERB sponsored project**

APPLICATION FORM

For the position of JRF to work in the DST –SERB sponsored project [Project No. SERB/F/7867/2019-2020]

1. Personal Details

Full Name (In Capital)				Affix Recent Passport Size Photo
Father Name		Mother Name		
Date of Birth (DD/MM/YY)		Gender (Male/Female)		
Marital Status (Married/Unmarried)		Nationality		
Address for Communication		Permanent Address		
Mobile/Phone no.		E-mail		

2. Education Background (From Matriculation Onward)

S. No.	Degree	Board / University	Regular/ Part time	Year	Division	% Marks /CGPA

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3. Qualifying Examination (GATE/CSIR/UGC/NET/Others)

S. No.	Qualifying Examination	Branch	Year	Valid up to	Percentile	All India Rank	Any other information

4. Professional Experience (if any)

S. No.	Designation	Name of Organization	Period		Nature of Work
			From	To	

5. References:

Research Publication (if any):

Awards, patents, prizes etc (if any):

Any other Relevant Information:

DECLARATION

I hereby declare that I have carefully read the instructions and particulars supplied to me and that the entries made in this application form are correct to the best of my knowledge and belief. If selected, I promise to abide by the rules and discipline of the Institute.

I note that the decision of the Institute is final in regard to selection. The Institute shall have the right to expel me from the Institute at any time after my selection, provided it is found that I was admitted on false particulars furnished by me or my antecedents prove that my continuance in the Institute is not desirable. I agree that I shall abide by the decision of the Institute, which shall be final.

Place:

Date:

Signature of Applicant

TERMS AND CONDITIONS

- 1. Only eligible candidates are required to apply.**
2. The contract is purely temporary and initially only for a period of one year but extendable if work is found satisfactory on year to year basis till the completion of the project.
3. JRF candidate admitted in the scheme is expected to join the Ph. D programme.
4. Candidates have to fully devote their time for the project work and are not allowed to join any other course (part/ full time).
5. Maximum age limit is 30 years as on 31/12/2019 and Age relaxation for SC/ST/OBC/PH and women candidates will be extended as per DST rules.
6. Candidates who wish to leave the project in between have to inform the PI in writing at least 3 months before or till other personnel is employed in the project, whichever is earlier.
7. Selection will be made purely as per the DST and University guidelines subject to approval by DST.
8. **No TA/DA will be paid for either attending the interview or while joining the project.**
9. Complete applications in the prescribed format should reach the following address on or before **07-01-2020 (4:30pm) by post/ e-mail.**
10. Address for Correspondence:
Name: **Dr. CH. Shilpa Chakra**
Designation: **Assistant Professor**
Centre for Nano Science and Technology, Institute of Science & Technology

Address:

**Centre for Nano Science and Technology, Institute of Science & Technology,
JNTU Hyderabad, Kukatpally, Hyderabad, Telangana.**

Pin: **500085**

e-mail ids: pidstserbcore@gmail.com

11. Interview for selected candidates is on **08-01-2020** at the PI cabin, Centre for Nano Science and Technology, IST, JNTUH(New IST Building). Candidates have to appear before the selection committee with all relevant documents/certificates in original and if selected, should join the project immediately.
12. If any false information is provided by the candidates and is found guilty, necessary action will be taken and the candidate has to refund all the payments made to him/her.

Principal Investigator

(Dr. CH. Shilpa Chakra)