

**Advertisement for Junior Research Fellow (JRF) Position under DST-SERB project in Physics**

Applications are invited from highly motivated and eligible Indian citizens for the position of Junior Research Fellow (JRF) in a sponsored research project under DST-SERB, Govt. of India at the School of Physics and Materials Science, Thapar Institute of Engineering & Technology, Patiala with the details mentioned below.

**Project Details:**

Title of the Project	<b>Topological States in the Iron-based Superconductors</b>
Sponsored Agency	SERB (Govt. of India)
Name of the Post	Junior Research Fellowship
Vacancy	01 Post
Duration	02 Years or completion of the project, whichever is earlier
Principal Investigator	Dr. Dheeraj Kumar Singh, Assistant Professor, School of Physics and Materials Science, Thapar Institute of Engineering and Technology, Patiala-147004, India. Email id: dheeraj.kumar@thapar.edu

**Other Details:**

1.	Essential Qualifications	<p><b>1. M.Sc. in Physics/ Applied Physics / Mathematics/ Pure Mathematics</b> and scientific computation or equivalent degrees with at least 60% marks (or a CGPA of 6.5 in 10 point scale) or M.E. / M. Tech degrees with at least 60% marks (or a CGPA of 6.5 in 10 point scale) in Physics /Mathematics or its related disciplines.</p> <p><b>2. NET or GATE qualified</b></p>
2.	Age Limit	Not more than 28 Years. SC/ST/OBC/Women/PD candidates will get age relaxation as per SERB, Govt. of India norms.
	Fellowship	Rs. 31,000/- per month plus HRA as per norms if accommodation is not provided by institute.
4.	Important	<ul style="list-style-type: none"> <li>• The assignment is purely temporary in nature and it is co-terminus with the project.</li> <li>• No TA/DA will be paid for appearing in the interview and/or joining of the position.</li> <li>• All the terms &amp; conditions for this recruitment will be as per the guidelines of SERB, Govt. of India and TIET, Patiala. Institute reserves the right to cancel the recruitment without assigning any reason.</li> <li>• Candidate selected for this position may apply for the regular PhD program provided they satisfy the eligibility criterion for PhD program in School of Physics, TIET, Patiala.</li> </ul>
5.	Job description	The task will mainly involve: (i) Search for and construction of effective multi-orbital Hamiltonians for different phases. (ii) Writing of numerical codes based on the developed or already existing Hamiltonians. (iii) These numerical codes then will be used in examining the topological states in superconducting or magnetic phases of iron-based superconductors.
6.	How to Apply	Eligible and interested candidates should send their detailed resume (CV) in the given Format through e-mail to Dr. Dheeraj Kumar Singh (dheeraj.kumar@thapar.edu) mentioning the subject as “ <b>Application for JRF under SRG of SERB</b> ”. <b><u>Last date to receive the applications is 20 January, 2021. The shortlisted candidate will be intimated about the interview date via e-mail.</u></b>

Principal Investigator  
Dr. Dheeraj Kumar Singh  
Assistant Professor, School of Physics and Materials Science

**Application Form for Junior Research Fellow (JRF) in DST-SERB Sponsored Project**  
Project Title: **Topological States in the Iron-based Superconductors (SRG/2020/002144)**

1. Name:

2. Male/Female:

3. Father/Spouse's Name:

4. Mother's Name:

Affix  
recent  
passport  
size  
photograph

5. Address:

(i) Communication address

(ii) Permanent address:

6. Email id:

7. Phone No:

8. Date of birth:

9. Marital status:

10. Nationality:

11. Caste category (OP/SC/ST/OBC/PH):

12. Details of Universities/Institutions attended (from 10<sup>th</sup> Standard onwards)  
(Self-attested copies of certificates and mark sheets/grade cards must be presented at the time of interview)

Degree	University/College/ Board	Year	Subject/s	% Marks/ CGPA/CPI	Class

13. Professional Qualifying Examination Passed:

GATE/NET/Equivalent: (Attested copy of certificate must be attached with the application)

Name of Examination	Subject	Rank /Marks /Score/Percentile	Qualifying date/year	Valid upto

14. Professional Experience (Teaching/Research/Industrial), if any

Name of organization	Position	Type of work	Period	
			From	To

15. Any other relevant information:

16. Declaration

I hereby declare that the entries made in this application are correct to the best of my knowledge and belief.

Place:

Signature of the applicant

Date: