



Department of Physics
Indian Institute of Technology Ropar
Rupnagar – 140001, Punjab, India

Advertisement for the recruitment of one Junior Research Fellow (JRF) in the SERB funded project:

Applications are invited from Indian nationals to work as a Junior Research Fellow (JRF) in a research project funded by Science and Engineering Research Board (SERB), Department of Science and Technology (DST), Government of India.

Title of the Research Project: *Thermal melting of the emergent patterns in spin-orbit coupled spinor condensates.*

Brief description of the project: The key objective of the project is to theoretically investigate the thermal melting of the density patterns in quasi-one- and two-dimensional spin-orbit-coupled pseudospin-1/2 and spin-1 Bose-Einstein condensates. The project will require the development of numerical tools based on Stochastic methods to study the thermal melting in spinor condensates and explore the various measures to quantify the melting.

Fellowship, HRA, and Contingences: As per DST rules

Who can apply?

- a. The candidate needs to have a master's degree in Physics or equivalent or M. Tech. in relevant subject area with a minimum 60% marks along with a good academic grades throughout, and strong commitment and motivation to pursue research in the subject area. The candidate must have an excellent aptitude for analytic calculations and numerical programming. SC/ST candidates will get relaxation in the minimum marks as per the Government of India rules.
- b. The candidates must have a valid CSIR-UGC (NET or JRF) or a valid GATE score in addition to the qualification mentioned in point 'a'

General Information

1. The position is temporary which will be renewed every year subject to the satisfactory performance. The position is extendable upto three years or till the completion of the project, whichever is earlier.
2. Short-listed candidates will be called for interview. No TA/DA will be given to candidates for attending the interview.
3. Only shortlisted candidates will be communicated to appear in the interview by email and no other communication in this regard will be entertained.
4. Reservation as per Govt. of India rules.

PS: The selected JRF candidates may be permitted to register for the PhD program as per the existing institute rules.

How to apply?

Please send the filled application form (in the attached format) with the copies of educational qualifications, date-of-birth certificate, and any experience certificate either by an email as a single pdf file to sandeep@iitrpr.ac.in or by a post directly to the undersigned. **The subject of the email must be 'Application for the position of JRF'. Last date to receive the application is 18 April 2022.**

Dr. Sandeep Gautam

Assistant Professor

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INDIAN INSTITUTE OF TECHNOLOGY ROPAR
Department of Physics

APPLICATION FORM
Call for the recruitment of a JRF in the SERB funded project

Personal Details

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

Education Background (From Matriculation Onward)

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

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

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

Professional Experience (if any)

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

Research Publication (if any):

Awards, patents, prizes etc (if any):

Any other Relevant Information which is not covered above:

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