



DEPARTMENT OF PHYSICS

Bankura Sammilani College

(Affiliated to Bankura University)

ESTD: 1948 ★ NAAC Accredited B++

P.O. - Kenduadihi ★ Dist. – Bankura ★ WB – 722102 ★ India



Adv. No.BSC/PHYS/PROJECT/JRF/06-2023.....

Dated10-08-2023.....

ADVERTISEMENT FOR THE RECRUITMENT OF JUNIOR RESEARCH FELLOW

Applications are invited from the Indian citizens for filling up the following post of **Junior Research Fellow** (JRF) through a sponsored project (Project No. - CRG/2022/002421), funded by the Science and Engineering Research Board (SERB), Department of Science and Technology (DST), Govt. of India at the Department of Physics, Bankura Sammilani College, Bankura, West Bengal.

1	Title of the project	Study on Transfer of Vortices and Vortex Entanglement via Dicke Superradiance in Atomic BECs
2	Funding Agency	Science and Engineering Research Board (SERB), Department of Science and Technology (DST)
3	Project Position	Junior Research Fellow – 1 (One)
4	Qualifications	<p>Essential qualifications: Any ONE of the following qualifying degrees:</p> <ul style="list-style-type: none">• M. Sc. or equivalent degree in Physics/Applied Physics.• B. Tech. / B. E. or equivalent degree in Engineering Physics.• M. Tech. or equivalent degree in Engineering Physics.• M. Phil. or equivalent degree in Physics. <p>The eligibility criteria in the qualifying degree are First Class (a minimum of 55% marks or Cumulative Performance Index (CPI) of 6.0 on the scale of 0-10)</p> <p>Desirable:</p> <ul style="list-style-type: none">• Selection in National Eligibility Test – CSIR-UGC NET including lectureship (Assistant Professorship) in Physical Science• Valid GATE/JEST score in Physics.• Selection in a National level examination conducted by Central Govt. Departments and their agencies, and Institutions such as DST, DAE, DOS, DRDO, MHRD, etc. in Physical Sciences.
5	Consolidated Emoluments	INR 31,000/Month + HRA (as per rules)
6	Duration	3 years (Renewable in each year upon satisfactory performance) or the date of completion of the project, whichever is earlier.
7	Job Description	The Project involves the study of Vortex generations in a coupled BECs. Furthermore, the study of Dicke model and the investigating the vortex entanglement. The project work involves Numerical Simulation using MATLAB (preferably) and analysis of the outcomes and preparation of the report.
8	Principal Investigator (PI)	Dr. Priyam Das , Assistant Professor, Department of Physics, Bankura Sammilani College.

Email: bscphysics102@gmail.com

Website: http://bankurasammilanicollege.net/dept_details.php?dept_id=15



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Adv. No.BSC/PHYS/PROJECT/JRF/06-2023.....

Dated15-06-2023.....

Details of Selection Process

Sl. No.	Particulars	Details
1	Where to apply?	Applications to be submitted against the advertisement, to the following Email-id: daspriyam3@gmail.com
2	How to apply?	The candidates need to send their updated CV along with self-attested copies of all the certificates and marksheets, experience certificates (if any), Caste certificate (if applicable). All the <i>Candidates are also requested to arrange two letters of recommendation to be directly sent to the PI at daspriyam3@gmail.com</i> . In the subject line of the Email, candidates are required to write " Application for JRF-SERB position ".
3	Selection process	Applications will be initially screened, and based on the screening, only the shortlisted applicants will be called for an interview via online/offline mode. Mere fulfilment of minimum eligibility will not bestow the right for shortlisting, The institute reserves the right to screen and shortlist candidates by introducing higher benchmarks. Emails will be sent to the shortlisted candidates only.
4	Schedule	Last date to submit application form: 25/08/2023. Date and Time slots for the online/offline selection process will be communicated through email to the shortlisted candidates.

Terms & Conditions

- The above position is purely contractual and initially for a period of 1 year. The continuation of the fellowship is subjected to satisfactory performance and review at the end of each year. On satisfactory performance, the tenure of the fellowship may be further extended till the completion of the project.
- Selected candidates will not be entitled to claim for regular appointment/absorption in the institute.
- If the candidate fulfils the Affiliating University criteria, admission in Ph.D. may be considered.
- No TA/DA will be paid for attending the interview.
- Canvassing in any form will disqualify the candidature.

Deadline

The last date for receiving applications is on or before **25/08/2023, 5:00 PM.**



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