



CENTRAL UNIVERSITY OF RAJASTHAN – 305817 (RAJASTHAN)

ADV. NO: CURAJ/PHY/SD/SERB/0003

Dated: 26/03/2025

Applications are invited for the JRF position in a DST-SERB sponsored project SRG/2023/001023 in a purely time-bound research project undertaken in the Department of Physics of the Central University of Rajasthan.

1	Name of the Temporary Post	Junior Research Fellow – 01
2	Name of the Sponsoring Agency	Science and Engineering Research Board (SERB), Department of Science and Technology (DST), Government of India
3	Title of the Research Project	Multi-boundary entanglement in Chern-Simons theory
4	Tenure of the Assignment	Till the completion of the project (21/12/2025)
5	Job Description	To conduct the theoretical investigation of the aspects of quantum entanglement in the context of TQFT. This project will require analytic and numerical calculations to be performed using computational software like Mathematica and related packages.
6	Consolidated monthly compensation / Fellowship	31000 + HRA (as per DST rules)
7	Essential Qualifications	<ul style="list-style-type: none">• Master's degree in Physics with a minimum of 60% marks.• Candidates must have a valid NET-JRF/GATE/JEST/NET or any other national level examination.
8	Desirable Qualifications/ Experiences	<ul style="list-style-type: none">• Specialization in Quantum Physics and Mathematical Physics along with a basic knowledge of group theory is expected.• Working knowledge of computations in Mathematica is highly desirable.• The candidate must have an excellent aptitude for analytic calculations and numerical programming.• Good academic grades throughout with a strong commitment and motivation to pursue research in the subject area.
9	Accommodation	Accommodation in the University hostel may be provided subject to availability.

For technical information on the project, the candidate may contact the Principal Investigator (PI) of the project, **Dr. Siddharth Dwivedi** (siddharth.dwivedi@curaj.ac.in), Department of Physics, Central University of Rajasthan.

1) Eligible candidates must send their complete bio-data and copies of the certificates/documents as a single PDF file via email to the PI of the project within two weeks of the advertisement date. The subject of the email should be: "Application for the position of JRF under SERB Project".

2) Shortlisted candidates will be called for an interview, which can be in **physical/online** mode. The interview date and other details will be shared with the shortlisted candidates only. No TA/DA will be paid to attend the interview.

3) The post will be governed as per the terms and conditions of DST-SERB and is advertised in accordance with the funds released by DST-SERB.

Dr. Siddharth Dwivedi (PI)