



CENTRAL UNIVERSITY OF RAJASTHAN – 305817 (RAJASTHAN)

ADV. NO: CURAJ/PHY/SD/SERB/0002

Dated: 01/09/2024

Applications are invited from interested and motivated candidates for the following assignment 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	01 Year (further extendable based on the performance)
5	Job Description	To carry out 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.
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.

Eligible and interested candidates must

- 1) Send their complete bio-data and copies of the certificates/documents as a single PDF file via email to the PI of the project on or before. The subject of the email should be: "Application for the position of JRF under SERB Project".
- 2) Selected candidates will be called for an interview which can be in **Offline/Online** mode, the date of which will be informed to the selected candidates.
- 3) The tenure of the selected candidate will be initially for one year. This can be further extended till 21/12/2025 based on satisfactory performance.

Dr. Siddharth Dwivedi (PI)