



CENTRAL UNIVERSITY OF RAJASTHAN

ADVERTISEMENT NO: CURAJ/PHY/SR/DST-SERB/01

Dated: 28/12/2020

Applications are invited for the following assignment in a purely time bound research project undertaken in the Department of Physics of the University.

Sl. No.	Name of the temporary post	Junior Research Fellow/RA
1	Number of Post	01
2	Title of the Research Project	<i>Unconventional superconductivity and spin liquids in metal-organic frameworks</i>
3	Name of the Funding Agency	Science and Engineering Research Board (DST, India)
3	Tenure of the Assignment	02 Years (01 Year + Extendable to another year)
4	Job Description	To carry out the research work in the field of metal-organic frameworks (MOFs), in particular, the computer simulation of condensed matter models (e.g., Hubbard, Heisenberg, t-J models etc) in search for superconductivity and spin-liquids in MOFs using state of art simulation methods (DMRG, DFT+DMFT, QMC, Lanczos diagonalization)
5	Consolidated monthly compensation / Fellowship	As per the norms (Rs 31000 + HRA per month for JRF, Rs 25000 + HRA per month for RA)
6	Essential qualifications and experience	M.Sc in Physics/Applied Physics or related disciplines with marks $\geq 55\%$ or equivalent CGPA as per the UGC norms
7	Desirable qualifications and experience	A valid NET/GATE score. Candidates with specialization in Condensed Matter Physics and experience in physics problem solving by computer programming (Fortran, C++, Python etc)
8	Accommodation	Bachelor accommodation in the University may be provided subject to availability.

For technical information on the project, the candidate may contact the Principal Investigator **Dr. Sahinur Reja (Mob- 08158856014, sahinur.reja@curaj.ac.in)**, Department of Physics, Central University of Rajasthan. Further details can be found in department profile:

<http://14.139.244.219/departments/department-physics>

<https://sahinurreja.wixsite.com/sahinur/projects>

Eligible and interested candidates should send their CV along with scanned original documents in a single pdf file directly to the PI of the project **on/before 12/01/2021**. Eligible candidates after screening will be informed to attend the online interview conducted by the Department of Physics, CURAJ.

Dr. Sahinur Reja (PI)
Department of Physics, CURAJ