



**DEPARTMENT OF CHEMISTRY**  
**UNIVERSITY COLLEGE OF SCIENCE**  
**Mohanlal Sukhadia University, Udaipur**

Dr. Shikha Agarwal  
Assistant Professor

shikhaagarwal@mlsu.ac.in

No. Chem/UCOS/SERB/SURE/ 4982

October 1<sup>st</sup>, 2023

**Advertisement for the post of Junior Research Fellow/ Project Associate-I in SERB  
Funded Research Project**

Applications are invited from highly-motivated and research-oriented candidates on a plain paper for one post of Junior Research Fellow/ Project Associate-I to work on the time-bound DST, New Delhi funded research project undertaken in the Department of Chemistry, Mohanlal Sukhadia University, Udaipur (Rajasthan) India with details are as follows:

Title of Project	<b>Development of biomass-derived carbon quantum dots as efficient catalysts for the facile synthesis of biologically potent heterocycles</b>  <b>Description:</b> The proposal involves the synthesis of functionalized carbon quantum dots (CQDs) based catalysts for multicomponent reactions. CQDs from biomass waste have high fluorescence, high photocatalytic activity, quantum yield, good photostability, low cytotoxicity, excellent biocompatibility, etc. They bear high potential in the field of sensing, photocatalysis, bioimaging, drug delivery, energy storage, etc. The precursors for synthesizing CQDs are easily available, economical, and safer as compared to conventional compounds. Since sustainable synthesis is an urgent need for highly feasible reactions, biomass-derived CQDs will be synthesized via eco-friendly pathways and further proceeded for better yielding reactions.
Principal Investigator (PI):	Dr. Shikha Agarwal Assistant Professor Department of Chemistry, University College of Science, Mohanlal Sukhadia University, Udaipur-313001. For other details about the profile and research of the PI, please visit the homepage: <a href="http://www.mlsu.ac.in">Department of Chemistry :: Mohanlal Sukhadia University Udaipur (www.mlsu.ac.in)</a>
Name of the Post	<b>Junior Research Fellow/ Project Associate-I</b>
Number of Post	<b>One (1)</b>
Minimum Qualification	<b>Essential:</b> For JRF: M. Sc. (Chemistry) with NET/ M.Sc. (Chemistry) with at least 55% marks  <b>Desirable:</b> Candidates having experience of organic synthesis/ Carbon Quantum Dots and publication's in the relevant area.
Fellowship/Monthly salary	<b>Rs. 31000/-pm + 2480/- HRA / Rs. 25000/- + 2000/- HRA (fixed)</b>
Funding Agency	Science and Engineering Research Board (SERB), Department of Science and Technology, New Delhi
Tenure	The position is temporary and renewable each year, subject to satisfactory performance, for a maximum of three years and position is co-terminus with the project.
Last date	October 26, 2023 by 5:00 PM.



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**How to apply:**

1. Applicants should send their application on plain paper with a cover letter, updated CV [including name, photograph, date of birth, address for communication, phone number, email ID, education details (10<sup>th</sup> class onwards), and scientific accomplishments (like research papers, etc.)] and copies of all necessary qualifications and experience certificates on the PI email i.e. [shikhaagarwal@mlsu.ac.in](mailto:shikhaagarwal@mlsu.ac.in) on or before October 26, 2023, by 5:00 PM. Applications sent via another mode will not be accepted.
2. Shortlisted candidates will be intimated through email.
3. Interviews may be conducted via offline mode only in the PI's department.
4. Applicant must bring all the original certificates at the time of interview (for offline mode) or at the time of joining (for online mode) for the purpose of verification, along with one set of photocopies.

**General information and terms and conditions**

1. Appointment is purely temporary and will terminate automatically without any notice or compensation or termination of the research project.
2. The appointed person shall have no claim of appointment/absorption in the funding agency or in the Mohanlal Sukhadia University.
3. The appointment of the applicant will be governed by the terms and conditions of the funding agency particularly applicable to the mentioned project.
4. The qualification prescribed should have been obtained from the recognized university/institute.
5. The prescribed educational qualifications are the bare minimum and mere possession of the same does not entitle candidates to be called for an interview. If the number of applications received in response to this advertisement is large, it will not be convenient or possible to interview all the candidates. Based on the recommendation of the screening committee, the PI may restrict the number of candidates for the interview to a reasonable limit after taking into consideration qualifications and experience over and above the minimum prescribed in the advertisement. Therefore, it will be in the interest of the candidates, to mention all the qualifications and experience in the relevant field at the time of applying.
6. No TA/DA will be admissible for appearing in the interview.
7. The selected candidate will have to join the duty immediately upon receipt of the offer.
8. No interim inquiries/correspondence/communication of any sort will be entertained on the matter.
9. Canvassing in any form and/or bringing any influence, political or otherwise, will be treated as a disqualification for the post applied for.
10. The upper age limit is 28 years (5 years relaxation for female/SC/ST/Physically Handicapped Candidates).

  
Dr. Shikha Agarwal  
PT & Assistant Professor  
Department of Chemistry  
Mohanlal Sukhadia University,  
UDAIPUR (Ra.)

  
Dr. Jyoti Chaudhary  
HEAD  
Department of Chemistry,  
University College of Science  
UDAIPUR



**Department of Chemistry  
University College of Science**

**M. L. Sukhadia University, Udaipur-313001 (Raj.)**

**REQUIRED** 12/10/2023

Applications are invited for one Junior Research Fellow (JRF) @ Rs. 31000/-pm + HRA/ one Project Associate-I (PA) @ 25000/-pm + HRA in DST-SERB, SURE-funded research project in the field of organic synthesis for a period of three years. For qualifications and application details, visit the website, [www.mlsu.ac.in](http://www.mlsu.ac.in). Apply along with documents before 26 October 2023 to PI (E-mail: [shikhaagarwal@mlsu.ac.in](mailto:shikhaagarwal@mlsu.ac.in)).

**Dr. Shikha Agarwal, PI**

**Head**