



Indian Institute of Technology Jodhpur

Office of Research and Development

Advt. No.: IITJ/R&D(Advt.)/2023-24/46

05 October 2023

Project Recruitment

Applications are invited from the citizen of India for filling up the following temporary position in the Sponsored Research Project at this Institute. The position is purely temporary, initially for a period of 01 Year, and same extendable but co-terminus with the duration of the project, on a contractual basis with consolidated pay. The requisite qualification, experience and other details are given below:

1.	Project No.	S/SERB/JS/20220106
2.	Project Title	Crafting Potential Broad Spectrum Antimicrobial Leads from Pyrophosphate Moiety of Lipid-II Precursor of Bacterial Cell Wall Peptidoglycan
3.	Name of the Project Investigator	Dr. Jayita Sarkar
4.	Duration for initial appointment	01 Year
5.	Name of the Post	Junior Research Fellow
6.	Post	01
7.	Consolidate Pay	Rs. 31,000/- +HRA @8%.
8.	Minimum Qualification and Experience	<p><u>Eligibility:</u> Post Graduate degree in Organic Chemistry/ Biological Sciences with CSIR-UGC NET/GATE/Lectureship/ Qualified through any one national level examinations conducted by Central Govt. Departments and Institutions such as DST, DBT, DAE, DOS, DRDO, MHRD, ICAR, IIT, IISER, IISc etc.</p> <p><u>Desirable Experience:</u> Synthesis of antimicrobial small molecules, handling microbial cultures, antibacterial assay.</p>
9.	Job Description	Project work
10.	Brief description of Project	Lipid II a precursor molecule for the biosynthesis of bacterial cell wall is the most promising target for developing antimicrobial drugs due to its highly conserved structural unit across the bacterial world. In this project, a library of rationally designed small molecules targeting Lipid II will be synthesized followed by characterization of the small molecules using NMR, IR, GC-MS etc. The library will be screened based upon their antimicrobial efficacy to sort out lead molecules followed by evaluation of biocompatibility of the same. Lead molecules with satisfactory biocompatibility will be monitored in vitro for

		binding ability with lipid II and permeabilizing the outer cell membrane using various biophysical as well as biochemical assays to establish the mechanism of the antimicrobial activity and finally antimicrobial efficacy will be evaluated in rodent model.
11.	Maximum Age	28 Years
12.	Age Bar	Age will be calculated on the closing date of the online submission of the application. Relaxation in age for the category candidates only would be admissible as per Central Government Rules. Also kindly enclose the Caste Certificate along with the application.

The candidates possessing the requisite qualification and experience should apply through the **ONLINE process** up to **19 October 2023**. The candidates are advised to send a soft copy of the application with all relevant documents to recruitment_rnd@iitj.ac.in (*Please mention the advertisement number in the subject line of the email*). *No need to send a hard copy.*

General Instructions to Applicant(s)

1.	The post(s) is purely temporary and contractual for a period of 01 Year and extension based on satisfactory performance, but co-terminus with the duration of the project
2.	Application which is incomplete, not in prescribed format, without photograph or unsigned will be summarily rejected.
3.	Certificate in support of experience should be in proper format i.e. it should be on the organizations letter head, bear the date of issue, specific period of work, name and designation of the issuing authority along with his signature.
4.	Institute reserves the right to: a. Fix, modify or revise the eligibility conditions, age and selection criteria as per its requirements, at any time. b. Fill up the post, not to fill up the post or cancel the advertisement in whole or partly without assigning any reason. c. Place a reasonable limit on the total number of candidates to be called for the Written Test and/or Skill Test, Interview.
5.	The Institute shall verify the antecedents or documents submitted by a candidate at the time of appointment or during the tenure of the service. In case, it is detected that the documents submitted by the candidates are fake or the candidate has a clandestine antecedents/background and has suppressed the said information, then his/her services shall be terminated.
6.	Higher initial pay may be given to exceptionally qualified/deserving candidate.
7.	No TA/DA shall be paid to the candidates for attending the interview.
8.	No correspondence will be entertained from candidates regarding interview and reasons for not being called for interview.
9.	Canvassing in any form will be a disqualification.
10.	No interim correspondence will be entertained.
11.	No need to send hard copy.