



Indian Institute of Technology Jodhpur

Office of Research and Development

Advt. No.: IITJ/R&D(Advt.)/2022-23/82

25 March 2023

Project Recruitment

Applications are invited from the citizen of India for filling up the following temporary position in the Sponsored 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	1 Year
5.	Name of the Post	Junior Research Fellow
6.	Post	01
7.	Consolidate Pay	Rs. 31,000/- +HRA 8%(As per funding agency norms)
8.	Minimum Qualification and Experience	<p><u>Essential Qualification:</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. GATE qualified</p> <p><u>Desired Qualification:</u> Synthesis of antimicrobial small molecules, handling microbial cultures, antibacterial assay.</p>
09.	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 prepared by synthesising and 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 and finally antimicrobial efficacy will be evaluated in rodent model.
10.	Job Description	Project related work
11.	Maximum Age	Not more than 28 Years

The candidates possessing the requisite qualification and experience should apply through the **ONLINE process** up to **08 April 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.
12.	Experience and Qualification will be taken into consideration as on last date of submission of application.

Officer In-charge
Research & Development