



ADVERTISEMENT

Project Research Scientist-I (Non-Medical) in the ICMR Funded Research Project

May 03, 2024

Applications are invited from interested and motivated candidates for the position of Project Research Scientist-I (Non-Medical) in a time bound in an ICMR funded research project for a temporary period, purely on contractual basis as per the following details.	
Position	Project Research Scientist-I (Non-Medical)
Number of Vacancy	One
Funding Agency	ICMR
Project Title	Computational Biology assisted Design, Synthesis and Biological screening of small molecule Inhibitors against MurE Ligase from <i>S. Typhi</i>
Principal Investigator	Prof. Nasimul Hoda
Department and Institution	Department of Chemistry Jamia Millia Islamia, Jamia Nagar, New Delhi 110025, INDIA
Project Tenure	Initially for a period of one year with the provision of further continuation (till duration of the project, total 24 months) subject to satisfactory performance
Project Description	<p>Interested candidates are welcome to apply for the position Project Research Scientist-I (Non-Medical) for a comprehensive drug discovery project aimed to discover potential MurE Ligase inhibitors for the development of potential anti-microbial agents.</p> <p>Salmonella enterica is a highly infectious bacteria which causes gastroenteritis and typhoid diseases. Due to the cumulative emergence of bacterial strains resistant to presently accessible antibiotics has created unfulfilled medical demands in antibacterial therapy. MurE ligase plays a pivotal role in peptidoglycan biosynthesis and essential for the development of bacterial cell wall and unique to prokaryotic cells. These features make MurE ligase as an attractive drug target for the development of novel antimicrobials agents, which are effective against both wild type and mutant <i>S. Typhi</i> strains. In order to rationally design MurE ligase inhibitors structure-based drug design strategy would be utilized to obtain thiazolidin-4-one based potential inhibitors. The identified molecules will be synthesized and their binding and inhibitory activity against MurE ligase will be carried out using SPR, ITC and other bioanalytical techniques. The minimum inhibition concentration for each identified inhibitors will be determined.</p>
Essential Qualifications	1. First Class Post Graduate Degree, including the integrated PG. degrees in Chemistry/Biochemistry/Biotechnology/Pharmacy or allied

	field with expertise in the relevant area of research. 2. Second Class Post Graduate Degree, including the integrated PG degree with Ph.D. in Chemistry/Biochemistry/Biotechnology/Pharmacy or allied field with expertise in the relevant area of research. (OM 16/29/2023 Dt. 01.08.2023)
Desirable Qualifications	1. Expertise in isolation of natural product and their synthetic modification 2. Applicant with expertise in Multi step organic Synthesis/Synthesis of therapeutically important compounds. 3. Experience in protein modelling, computer aided drug design, molecular docking, molecular dynamics simulation, good training in the field of in-silico genomic analysis, and good command in oral and written communication skills in English will be given preference. 4. At least Two years of research experience in Natural product isolation, Modification and molecular hybridization of therapeutically important compounds
Age Limit	35 Yrs. (OM 16/29/2023 Dt. 01.08.2023) Cut-off-date for age limit be as on last date of submission of application
Fellowship	Rs. 56,000 + Rs.15120 (27% HRA) = Rs 71,120/- p.m (OM 16/29/2023 Dt. 01.08.2023)

How to apply: Please submit a cover letter, attached application form, CV, and supporting documents combined into a single PDF file and also fill the attached form and send by e-mail to nhoda@jmi.ac.in on or before **May 15, 2024**.

Mode of Interview: Offline (Preferable) /online (in special circumstances)

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Principal Investigator

Dr. Nasimul Hoda.
(Professor)
Department of Chemistry
Jamia Millia Islamia, Jamia Nagar
New Delhi 110025, INDIA
E-mail: nhoda@jmi.ac.in

General Instructions:

- Incomplete forms will not be accepted.
- Guidelines of funding agency to recruit manpower will be applicable.
- Only shortlisted candidates will be communicated to appear for the interview.
- Original certificates need to be presented before the interview for verification.
- Clearly mention about the position on the Application form
- No TA/Da will be paid for attending the interview

Application for Project Research Scientist-I (Non-Medical)

Name:

Father's Name:

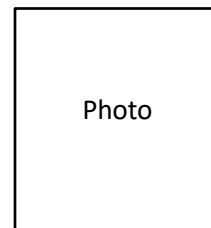
Date of Birth:

Address:

Mobile No.

E-mail:

Education:



Course Name	Major subject	Year	University	Grade

NET/GATE Score:

Title of M.Sc./Ph.D. Dissertation:

Experience:

Name of Organization	Designation	From	To	Role

Description of Research Project(s) Handled:

Details of Publications in last three years:

Technical Expertise:

Date

Place

Signature