



**Dr. Neeraj Kumar Mishra**

(Associate Professor)

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लखनऊ विश्वविद्यालय

(नैक द्वारा A<sup>++</sup> ग्रेड प्रत्यायित)

लखनऊ -226007 (उ.प्र.) भारत

University of Lucknow

(Accredited NAAC A<sup>++</sup> grade)

Lucknow-226007 (U.P.) India

### **Call for the Position of Project Assistant (PA)**

Applications are invited for the post of Project Assistant (PA) under SERB-SURE funded project (SUR/2022/004791). The project work is to be undertaken broadly in the area of Organic Chemistry.

**Project Title:** Ligands or Directing Groups-Assisted Transition-metal Catalysed Synthesis of Late-Stage Drug Molecules via *meta*-Carbon-Hydrogen Bond Functionalizations.

**Funding Agency:** Science and Engineering Research Board (SERB), Delhi, Government of India.

**Project Duration:** Three years (selected candidate may get the opportunity to enroll in the Ph.D. program as per the University norms).

**Principal Investigator (PI):** Dr. Neeraj Kumar Mishra, Department of Chemistry, LU.

**Scope of Work:** Design and synthesis of directing group assisted hetero(aromatics) molecules and their C-H bond functionalization (especially target on *meta*-position) to construct the bioactive molecules as well as late-stage drug candidates using transition-metal catalysts. Identification and purification of synthesised products by thin layer chromatography (TLC), flash column chromatography, high performance liquid chromatography (HPLC), and medium-pressure liquid chromatography (MPLC). Characterization of synthesised compounds using NMR, IR, HRMS, GC-MS, UV and X-ray crystallography analysis. Mechanistic investigations, synthetic transformations, and biological evaluation of formed products will be performed.

**Essential Qualification:** M.Sc. in Chemistry with minimum 55% marks. The maximum age limit for PA is 28 years as on the last date of advertisement, with relaxation for reserved category candidates as per rules.

**Desirable Qualification:** Candidates with NET or equivalent qualifications and industrial experience in synthetic organic chemistry will get weightage.

**Fellowship:** Rs. 23,600 /- P.M. (including HRA).

**How to Apply:** Application with proof of details of qualifications, age, corresponding address, along with valid email ID, and WhatsApp number should be send on the email: [neerajchemistry@gmail.com](mailto:neerajchemistry@gmail.com) within 21 days from the date of advertisement. *The shortlisted candidates for the interview will be informed through email. No TA/DA will be given for the interview.*

**Note:** The position is purely temporary and co-terminus with the project.

Dr. Neeraj Kumar Mishra  
08-02-2024