

Department of Chemistry
Mahila MahaVidyalaya (MMV)
Banaras Hindu University, Varanasi 221005

23.07.2026

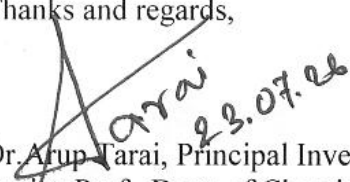
Advertisement for Junior Research Fellow (JRF) in ANRF sponsored project

Applications are invited from eligible candidates for **ONE** temporary position of **Junior Research Fellow** in an Anusandhan National Research Foundation (ANRF) sponsored research project under Principal Investigator **Dr. Arup Tarai**, Assistant Professor, Department of Chemistry, MMV, Banaras Hindu University on or before **22th August 2026**.

Project Title	Tuning σ -Hole Characteristics in Pnictogen Based Metallo-Corroles complexes to Promote Anion Transport Across Phospholipid Bilayers.
Project description	The project involves the design and synthesis of corroles and metallo-corroles to enhance anion transport across phospholipid bilayers. Corroles are tetrapyrrolic, redox-active macrocyclic compounds that are structural analogues of porphyrins. Since the synthesis of corroles is challenging and requires expertise in multistep organic synthesis and purification, candidates with a strong background in organic synthesis will be preferred. The project aims to modulate the σ -hole characteristics of the metal center in metallo-corroles to promote selective and efficient transport of different anions across phospholipid bilayers. Spectroscopic techniques like UV-Vis, Fluorescence, IR, NMR, Mass etc. and XRD (SC-XRD and PXRD) will be used to examine the synthesized materials.
Funding Body	Anusandhan National Research Foundation (ANRF) File no ANRF/IRG/2025/000587/CS
Duration	3 years (The post is purely temporary and co-terminates with the project.) and it will be converted to PhD based on the criteria of BHU.
Job Role	The role of the JRF will be to design and perform experiments, analyse results, write reports and manuscripts, and participate in collaborative studies.
Essential Qualification	M. Sc. in Chemistry with at least 55% aggregate marks (or equivalent grade) and have qualified UGC/CSIR NET or GATE.
Desirable Qualifications	Candidate with knowledge in organic synthesis will be preferred. Practical experience in spectroscopic techniques and Single-crystal-XRD will be preferred.
Fellowship/ Stipend	1st and 2nd year salary: ₹ 37,000/- p.m. + HRA. 3rd year salary: ₹ 42,000/- p.m. + HRA.
Age Limit	The upper age limit is 28 years and other selection criteria for this fellowship (JRF) are as per rule of ANRF and Government of India. (5 years age relaxation for SC/ST/PH candidates)
Procedure to apply	Motivated candidates are requested to submit their applications ONLINE along with all supporting documents via Google Form link https://docs.google.com/forms/d/e/1FAIpQLSdKpYSDnt-_yfa7yKynYdGBgOj6R42a2Am9evpLSoMpqrBAxw/viewform?usp=dialog
Interview	Only shortlisted candidates will be called for an interview in-person/online. The date of the interview will be communicated via email. No TA/DA will be paid for the interview. Candidates called for the interview should bring the original certificates/degrees for verification.

Last date of application: 22.08.2026

Thanks and regards,


Dr. Arup Tarai, Principal Investigator
Assist. Prof., Dept. of Chemistry, MMV
Banaras Hindu University, Varanasi 221 005
Email: aruptarai@bhu.ac.in