राष्ट्रीय औषधीय शिक्षा एवं अनुसंधान संस्थान–हाजीपुर
NATIONAL INSTITUTE OF PHARMACEUTICAL EDUCATION AND RESEARCH (NIPER) - HAJIPUR
(Department of Pharmaceuticals, Ministry of Chemicals & Fertilizers, Govt. of India)
Export Promotions Industrial Park (EPIP), Industrial Area, Hajipur
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Center of Excellence on Biological Therapeutics

Advertisement for the post of **Post-Doctoral Fellowships (PDF)** and **Junior Research Fellow (JRF)** NIPER-Hajipur is an autonomous premier institution of national importance under the Department of Pharmaceuticals, Ministry of Chemicals and Fertilizers, Govt. of India, committed to pharmaceutical education and research. NIPER-Hajipur invites applications for the position of **Post-doctoral Fellow** in the Centre of Excellence on Biological Therapeutics **on a contractual basis.**

Total No. of Posts – Three (3) - Post-Doctoral Fellowship (1), and Junior Research Fellow (JRF) (2)
Minimum Qualification: PhD degree for postdocs and master's degree for JRFs in respective discipline or allied areas, with a consistently good academic record throughout. Candidates who have submitted the thesis and are awaiting the award of a degree may also apply.

Position and Eligibility	Fellowship Amount Per Month
Post-Doctoral Fellowships PDF (PhD Awarded/ with provisional)	Rs 66,080/- (Consolidated)/As per norms whichever is higher
Junior Research Fellow **(JRF)**	Rs 37,000/- (Consolidated)/As per norms or whichever is higher

**Candidate has to produce a letter from the competent authority stating that the thesis has been submitted and the final viva/thesis defense is pending.*

Note: The appointees will be called Postdoctoral Fellow (PDF) and Junior Research Fellow (JRF) and the initial award will be for **ONE Year** which can be extended further. The extension after each year will be after a thorough review of the candidate's performance.

Center of Excellence on Biological Therapeutics with the aim of developing an integrated platform that enables the **generation of monoclonal antibodies** with high specificity against specific targets of diagnostic and therapeutic interest. Our focus is on non-GMP production-like environments/facilities and testbeds for education, innovation and proof-of-concept experiments around the production of biological products, e.g. B. monoclonal antibodies, therapeutic enzymes, peptides and proteins and gene therapy products.

Post-Doctoral Fellowship in Biological Analysis: **(A)**The primary focus of this position will be analytical characterization of biological products as per regulatory requirements. Various skills required are **bio-analytical mass spectrometry-based tools to characterize biological products including sequence coverage**, intact mass and PTM analysis, HCP characterization, size, distribution, stability release etc., with a special emphasis on monoclonal antibodies-and related proteins and peptides. Applicants should have a **PhD. in Biology/ Biochemistry/ Bio-analytics/Medicine/Biotechnology/Bio-analytical** and who have previous experience/ who can conduct analytical characterization using appropriate analytical tools including **FT-IR, DSC, Nano particle Tracking Analyzer (NTA) /DLS, CE, CD** etc., Candidate should have experience in **handling monoclonal antibodies/polypeptides/peptides, development and application of modern extraction techniques for sample preparation of biological material, performing statistical analyses, validating bioanalytical methods.**

(B) Sequence analysis and cloning stable cell line development, upstream, downstream analytical assay development, and validations. **HPLC, SPR studies, Physicochemical methods including bioassay, Size-exclusion chromatography (SEC)**

Scientific and publishing activities in the field of bio-analysis and characterization of biological. Participate in key project activities with a focus on application potential. Preliminary levels of understanding about cGxP practice. Excellent knowledge on developing SOP, writing protocols, data interpretation, collection achieving comprehensive analysis of biological data. Candidate must have skills in conceptualizing, designing experiments and conducting studies independently as well as cooperatively with other lab members as a team and have the capability to write quality manuscripts and grants.

Junior Research Fellowship (JRF): in Cell Line and Process Development of Therapeutic Proteins:

(A) Applicants should have a **Master's in biotechnology/molecular biology/biology/chemistry/bioprocess**

engineering or immunology with in-depth experience in **(B) mammalian cell culture (suspension and adherent cells),** knowledge of major advances in antibody technology and biotechnology with the aim of overexpressing proteins, **cloning support, clone shorting, PCR, identification, expression and purification of proteins/polypeptides/peptides from bacterial, Pichia pastoris and baculovirus yeast/mammalian cell lines/phage surface display, hybridoma technology.**

Preferably with experience in generation, production and humanization of monoclonal antibodies and/or protein engineering demonstrated by good publications/IPR. Have successfully conducted research in the field. Demonstrated knowledge in molecular biology, in the design and screening of libraries using **display techniques (Yeast display or other display methods) and in flow cytometry (FACS).** Proven experience on purification and functional characterization of antibodies, Development of **stable cell lines, experience with growing mammalian cells in bioreactors, experience with expression and purification of antibodies and/or experience with scale-up of processes in the development of biological drugs**. Hands on experience with **chimeric/humanized antibodies/expert** in at least one or more analytical characterization of macromolecules.

Preliminary level of understanding about cGxP practice. Excellent knowledge on data interpretation collection achieving comprehensive analysis of biological data. Candidate must have excellent communication and organizational skills. Be capable of conceptualizing, designing experiments and conducting studies independently as well as cooperatively with other lab members as a team and have the capability to write quality manuscripts/reports.

Junior Research Fellow (JRF): Candidates with a Master's. in Pharmaceutical Sciences, Medicinal/Organic/Supramolecular chemistry, or similar disciplines are encouraged to apply. The candidate should have a strong background in **supramolecular/organic chemistry** to develop **new generation of antibody-drug conjugate.** Knowledge in **chemical biology (bioconjugation)** will be really appreciated with a proven record. The candidate must be very motivated and able to do experiments with great care and reproducibility (needed for bioconjugation). The candidate must demonstrate a high degree of motivation for working in an interdisciplinary project, and **experience in surface/supramolecular chemistry synthesis including purification techniques (flash chromatography and HPLC) and analytical techniques (especially HPLC).**

We are looking for a highly motivated and competent JRF to work in research with a focus, who also decides to work in research and take on administrative tasks. The successful candidate will support the core facility. The research tasks include ensuring that the facility is adequately stocked with reagents, buffers, reagents and chemicals, etc. required for the smooth operation of the facility. The professional has to ensure that SOPs and safety regulations are compiled and reported to the faculty-in-charge.

The JRF is mainly expected to **work in transgalactic approaches to advance scientific and technical innovation** and **get involved in more exciting projects**.

How to apply: The interested candidates may apply with their CV by email to registrar@niperhajipur.ac.in and on or before **15/05/2024**

Interview process: The short-listed candidates will be called for an interview by hybrid mode in front of a constituted committee. The interview date/ time will be communicated to the shortlisted candidates.

Sd/-
Registrar