

## Advertisement

**Recruitment of Project Assistant, JRF and Research Associate-III in Department of Pharmaceutical Engineering and Technology, IIT (BHU) – in the initiative of SLCR (Smart Laboratory on Clean Rivers) Under Institutional Framework between National Mission for Clean Ganga (NMCG) and Indian Institute of Technology (BHU), Varanasi**

**Annexure I: About positions and general application procedure**

**Annexure II: Application form**

**Annexure I**

### **The Title of the Project: Characterization of Emerging pollutants & Fingerprint analysis**

Characterization of Microbes and Micro-pollutants in the Ganga Basin: A Fingerprint Analysis Approach Based on the water sources and their implication in the Ganga Basin.

To set up the team at SLCR, applications are invited from qualified candidates for the following positions. In the project: *Characterization of Emerging pollutants & Fingerprint analysis*. The total duration of the appointment shall be up to 3 years or co-terminus with the project duration. Please note that SLCR is free to set the benchmark and call only the eligible candidates above set benchmark for Test and/or Interview. Further, SLCR also reserves the right NOT to fill any of the posts advertised, in the event or exigency so decided without assigning any reason thereof.

S. No	Positions	Essential Qualification (Please refer to Details in Annexure I)	No. of Posts	Upper Age Limit	Monthly Salary + HRA
1.	Project Assistant (PA)	Graduation in Science or Engineering or Technology or Pharmacy fields/BCA/3 years' diploma in Engg. & Technology.	2	50 years	₹ 22,000/- + HRA
2.	Junior Research Fellow (JRF)	M. Pharm, M.S.(pharm.), M.Tech (pharm) in Pharma/Medicinal chemistry, Pharmacoinformatics, Pharmaceutics, Pharmacology, Pharmacognosy, Analysis, Bitechology, Natural product etc with GATE/GPAT/CSIR-NET equivalent examination.	2	28 years (relaxation for 5 years to SC/ST/Physically Handicapped Female candidates)	₹ 37,000/- + HRA
3.	Research Associate-III (RA-III)	Ph.D. or equivalent degree with 1 years of experience in a relevant field or 5 years of research and teaching experience after M.Sc./M.Tech/ M.S (Pharma)/ M.Pharm or equivalent Degree with at least 1 paper in SCI Journal	1	40 years (relaxation for 5 years to SC/ST/Physically Handicapped Female candidates)	₹ 67,000 /- + HRA

### **APPLICATION PROCEDURE**

Candidates need to fill and submit the Application Form (Format in Annexure) and prepare a single pdf file attaching all the requisite degrees/certificates, research experience, and publications if any via email to Principal Investigator, Dr. Shreyans Kumar Jain at [sjain.phe@iitbhu.ac.in](mailto:sjain.phe@iitbhu.ac.in) and also CC to the Coordinator SLCR at [slcr@iitbhu.ac.in](mailto:slcr@iitbhu.ac.in) ; [slcr.varanasi@gmail.com](mailto:slcr.varanasi@gmail.com) on or before **December 15, 2024**

Dr Shreyans Kumar Jain  
Project Investigator, SLCR  
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The Coordinator  
Smart Lab on Clean Rivers (SLCR)  
IIT (BHU), Varanasi-221005  
Email: slcr@iitbhu.ac.in; slcr.varanasi@gmail.com

Candidates must also fill and submit the Google form: <https://forms.gle/KCy3TzWXqVpo9qF46>

If candidate is applying for multiple positions, a separate application required for each post.

**Please mention the post you are applying for in the subject line of the email.** Such as “*Application for PA Emerging Pollutant*” and/or “*Application for JRF Emerging Pollutant*” and/or “*Application for RAIII Emerging Pollutant*” The shortlisted candidates will be intimated by email.

1. The post is purely temporary and co-terminus with the project.
2. Positions sanctioned for **Three Year** for PA, **Three Year** for JRF and **Two Year** for RA-III.
3. IIT(BHU) has all rights to decide the duration of appointment in each position. The performance of project staff will be reviewed accordingly, and the positions may be extended for the total project duration.
4. Candidates must also fill and submit the Google form: <https://forms.gle/KCy3TzWXqVpo9qF46>
5. If candidate is applying for multiple positions, a separate application required for each post.
6. Only shortlisted candidates will be communicated to appear in the interview and no other communications in this regard will be entertained. Candidates are requested to check their email regularly and visit <https://www.iitbhu.ac.in/positions> for any updates.
7. The candidate is expected to join within a month, if selected.
8. No TA/DA will be paid for attending the interview.
9. Relaxation of marks and age may be granted to the SC/ST/OBC/EWS/Women/physically challenged Candidate. (as per GOI norms)
10. The Selection committee has the discretion to restrict the number of candidates to be called for interview to a reasonable limit by qualifications and experience higher than the minimum prescribed in the advertisement
11. HRA will be given as per the Government norms

The Selection committee reserves its right to not fill the position if no suitable candidate is found

Notes:

**Starting date of application: 19.11.2024**

**Last date of application: 15.12.2024**

**Annexure I**

1	<b>Project Assistant (PA)</b>
	<p>The <b>Project Assistant</b> is a key support role within the SLCR, designed to assist in the technical and administrative functions of ongoing projects within the SLCR. This position requires a solid educational background in science or engineering, providing essential technical support and contributing to the efficient execution of project activities. This is a full-time, temporary position. The Project Assistant will work closely with Project Investigators, Co-Investigators, and other team members to ensure the smooth implementation of SLCR project. Work will be focused on field work to collect the samples, pre-processing and sample preparation. Project Assistant will have to maintain the documents, and technical report. He/she may aspect any other activity if desired by senior SLCR management official and PI.</p> <p><b>Desirable Qualifications and Experience:</b></p> <ol style="list-style-type: none"><li>1. <b>Technical Skills:</b> Basic knowledge of chemical reagents, solvents, handling of chemicals, Cleaning and maintaining of lab instruments, catalogues searching etc</li><li>2. <b>Communication Skills:</b> Strong verbal and written communication skills, with the ability to present technical information clearly and concisely.</li><li>3. <b>Technical Certifications:</b> Any additional certifications in relevant technical fields or project management would be advantageous.</li><li>4. <b>Software Proficiency:</b> Basic proficiency in day to day useful software, as well as a good understanding of technical documentation and reporting.</li><li>5. <b>Analytical Skills:</b> Strong analytical and problem-solving skills, with the ability to interpret complex data sets and provide actionable insights.</li></ol> <p><b>Key Responsibilities:</b></p> <ol style="list-style-type: none"><li>i. <b>Technical Support:</b> Sample collection, pre-sampling and sample preparation.</li><li>ii. <b>Documentation and Reporting:</b> Prepare technical reports, project documentation, and presentations, SOPs of instruments.</li><li>iii. <b>Project Coordination:</b> Assist in the coordination of project activities, including scheduling meetings, preparing agendas, and maintaining project timelines.</li><li>iv. <b>Data Management:</b> Manage and organize project data, files, spreadsheets, and other digital records. Ensure data accuracy and integrity throughout the project lifecycle.</li><li>v. <b>Fieldwork Support:</b> Provide technical support for fieldwork activities, including setting up equipment, collecting samples, or Sample preparation</li><li>vi. <b>Administrative Support:</b> Assist with general administrative tasks, such as coordinating travel arrangements, managing project-related correspondence, and handling logistics for project events or workshops. Experience with PFMS (Public Finance Management System) and GFRs is desirable.</li></ol>
2	<b>Junior Research Fellow (JRF)</b>
	<p>The <b>Junior Research Fellow (JRF)</b> position is a key role within the Smart Laboratory on Clean Rivers (SLCR) project, designed for individuals with a Master's degree in Pharmaceutical Sciences M.Pharm, M.S. (Pharma), M.TECH (Pharma). This role focuses on conducting scientific research and supporting the development of innovative solutions for the identification of micro-pollutant and microbes in small rivers. The JRF will work closely with other JRF and RA to contribute to research activities and advance the objectives of the SLCR project.</p> <p>This full-time, temporary position will support various research initiatives aimed at quantitative and qualitative analysis of micro-pollutants and microbes. The JRF will be responsible design and execute the experiment, Data acquisition and analysis, preparation of project report and manuscripts.</p> <p><b>Desirable Qualifications and Experience:</b></p> <ol style="list-style-type: none"><li>1. <b>Experience:</b> Prior research experience in the relevant research fields<ul style="list-style-type: none"><li>➤ Analytical, HPLC, LCMS, Spectroscopic characterization is desirable.</li></ul></li></ol>

	<p>➤ Microbial: collection, DNA isolation, Sequencing</p> <ol style="list-style-type: none"> <li>2. <b>Research Skills:</b> Understanding of Sample preparation, water quality assessment, and environmental science.</li> <li>3. <b>Technical Skills:</b> Proficiency in statistical software, data analysis tools.</li> <li>4. <b>Communication Skills:</b> Strong written and verbal communication skills for reporting and presenting research findings.</li> <li>5. <b>Analytical Skills:</b> Good problem-solving skills and the ability to interpret complex data.</li> <li>6. <b>Personal Qualities:</b> Detail-oriented, proactive, and eager to contribute to innovative research solutions.</li> </ol> <p><b>Key Responsibilities:</b></p> <ol style="list-style-type: none"> <li>i. <b>Research Support:</b> Expertise in advanced analytical method for water quality assessment, knowledge of Sophisticated state-of –art technology (Spectroscopic Techniques)</li> <li>i. <b>Data Management:</b> Analyse complex data sets and provide strategic insights to inform project decisions.</li> <li>ii. <b>Collaboration:</b> Work with IIT Guwahati and BHU and other CoPI and Experts</li> <li>iii. <b>Report Preparation:</b> Prepare comprehensive research reports, Papers, Posters and technical reports</li> </ol>
<b>3</b>	<b>Research Associate-III (RA III)</b>
	<p>The Research Associate-III (RA-III) position in this project at the Smart Laboratory on Clean Rivers (SLCR) is a senior research role designed for highly experienced professionals with a strong track record in research and development. This role is ideal for a Ph.D. scholar with extensive research and teaching experience or equivalent teaching research experience beyond Master’s degree. The RA-III will lead advanced research initiatives, contribute to high-level project management.</p> <p><b>Job Description:</b> SLCR is seeking a highly skilled Research Associate-III mainly for LC-HRMS facility. He/She will be responsible for operation, maintenance, study design, data acquisition, method development, data analysis, data interpretation and training. This full-time position involves managing complex research activities, collaborating with interdisciplinary teams, and ensuring the successful execution of Project under the SLCR’s research objectives.</p> <p><b>Desirable:</b></p> <ol style="list-style-type: none"> <li>1. <b>Research Excellence:</b> Expertise in advanced analytical method for water quality assessment, knowledge of Sophisticated state-of –art technology such as NMR, GCMS, IR, UV data acquisition as well as data analysis. Research database search, Report and Manuscript preparation.</li> <li>2. <b>Leadership Skills:</b> Strong leadership capabilities with experience in managing research teams, mentoring junior researchers, and driving strategic research agendas.</li> <li>3. <b>Technical Proficiency:</b> Proficiency in advanced scientific software, statistical tools, and research technologies, Databases, literature search etc. Knowledge of spectroscopic and chromatographic and other relevant technologies is advantageous.</li> <li>4. <b>Communication Skills:</b> Exceptional written and verbal communication skills, with a history of publishing in top-tier journals and presenting at high-profile conferences.</li> <li>5. <b>Project Management:</b> Proven experience in managing complex research projects, including budgeting, scheduling, and resource allocation. Ability to navigate regulatory and compliance requirements effectively.</li> </ol> <p><b>Key Responsibilities:</b></p> <ol style="list-style-type: none"> <li>ii. <b>Research Leadership:</b> Lead and oversee high-impact research projects related to project, water quality, and relevant field, Develop and implement innovative research methodologies and experimental designs.</li> <li>iii. <b>Project Management:</b> Manage project timelines, resources, and budgets to ensure successful completion of research objectives. Coordinate with internal and external stakeholders to align research activities with project strategic goals.</li> <li>iv. <b>Data Analysis and Reporting:</b> Analyse complex data sets and provide strategic insights to inform project decisions. Prepare comprehensive research reports, technical papers, and policy</li> </ol>

	<p>briefs for dissemination.</p> <p>v. <b>Collaboration and Networking:</b> Foster collaborations with academic institutions, government agencies, and industry partners. Represent SLCR-IIT(BHU)/NMCG in conferences, workshops, and scientific meetings.</p> <p>vi. <b>Mentoring and Supervision:</b> Mentor and support junior researchers, research assistants, and students. Provide guidance on research methodologies, data analysis, and career development.</p> <p>vii. <b>Strategic Planning:</b> Contribute to the development of strategic research plans and proposals. Identify funding opportunities and assist in securing grants and research funding.</p> <p>viii. <b>Administrative Support:</b> Ensure compliance with research protocols, ethical standards, and organizational policies. Assist in administrative tasks related to project management and reporting.</p>
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**APPLICATION FOR the post of.....POSITION (under SLCR)**

1. Full Name:					
2. Date of Birth:				Photograph (Please paste/insert a recent passport size photograph)	
3. Sex (M/F/Others):					
4. Category (GEN/SC/ST/OBC):					
5. Physically Handicapped (Y/N):					
6. Marital Status:					
7. Name of Father/Mother:					
8. E-mail Address:					
9. Whether currently employed (if YES, give details of your current employer):					
10. Address of Correspondence (including phone No):					
11. Academic Records: (a) GATE/CSIR-NET qualification details with percent marks/Rank, year of qualifying, etc.:					
(b) Qualifying Degree (starting from High School or equivalent, Attested copies to be enclosed):					
Degree	School/ University	Year	Subjects	CGPA/(%)	Division
PhD					
M.Tech/M.E./MBA					
B.Tech/B.E./Graduation					
12 <sup>th</sup> or Equiv.					
10 <sup>th</sup> or Equiv.					
Any other					
12. Work Experience (starting with most recent experience; add rows if required):*					
S. No.	Organization	Designation	Date (From and To)		

12. Software Proficiency:			
14. Details of Project carried out (if any)*			
S. No.	Title of Project	Supervisor's name	Duration
15. Name and address of two referee along with phone number and e-mail address*:			

**Declaration**

I hereby declare that I have carefully read and understood the instructions and particulars on this application and that all entries in this form as well as in the attached sheets are true to the best of my knowledge and belief.

Date:

Place:

Signature