

ADVERTISEMENT

Recruitment for Extramural Project Research Scientist-I

Applications are invited from highly motivated and enthusiastic researchers for the post of Project Research Scientist-I under the ICMR-funded collaborative research project entitled: **“Development and Clinical Validation of an Artificial Intelligence-empowered Antibiotic Susceptibility Device towards Optimizing Antimicrobial Therapy Regimen in Leukaemia & Bone Marrow Transplant Patients”** (ICMR Proposal ID: IIRPIG-2023-0000773)

The project is being undertaken in collaboration between AIIMS Rishikesh and IIT Roorkee, under the mentorship of Dr. Uttam Kumar Nath, Professor & Head, Department of Medical Oncology & Haematology, AIIMS Rishikesh, and Dr. Saugata Hazra, Associate Professor, BSBE, IIT Roorkee.

Position

Sl. No.	Position	No. of Post	Duration
1	Project Research Scientist-I	1	2 Years

Essential Qualification

The candidate should possess:

- Ph.D. in Biotechnology / Life Sciences / Bioinformatics / Microbiology / Molecular Biology or allied disciplines from a recognized University/Institute.
- Minimum 2 years of post-Ph.D. research experience in a relevant field.
- Strong hands-on experience in next-generation sequencing (NGS) and/or third-generation/long-read sequencing.
- Demonstrable experience in Oxford Nanopore Technologies (ONT) sequencing, including library preparation, sequencing workflow and data generation.
- Strong working knowledge of bioinformatics and computational analysis of sequencing data.

Desirable Technical Expertise

At least two published research papers in good peer-reviewed journal.

Preference will be given to candidates having demonstrated expertise in:

1. Oxford Nanopore sequencing, including MinION/GridION or related ONT platforms.
2. Sanger Sequencing and MiSeq Sequencing

3. Whole Genome Sequencing (WGS), metagenomic sequencing and/or shotgun metagenomics.
4. Processing and Bioinformatic analysis of both short and long-read sequencing data.
5. Experience with commonly used bioinformatics tools, pipelines and databases for microbial genomics and AMR analysis.
5. Programming/scripting experience in Linux/Unix environment, preferably using Python, R and/or Bash.
6. Experience handling and analysing clinical/microbiological samples and integrating sequencing results with microbiological or clinical data.
7. Experience in working in a multidisciplinary and collaborative research environment involving clinical, microbiological, molecular biology and computational teams.

Key Responsibilities

The selected candidate will be expected to:

- Independently perform and/or coordinate Oxford Nanopore, Sanger and MiniSeq Sequencing and other sequencing workflows
- Generate, process and analyse whole-genome and metagenomic sequencing datasets.
- Develop and implement bioinformatics pipelines for microbial genome and AMR analysis.
- Analyse sequencing data to identify pathogens, antimicrobial resistance determinants, and genomic signatures.
- Integrate genomic data with microbiological, clinical and phenotypic antimicrobial susceptibility data.
- Maintain appropriate documentation, data management and quality-control procedures.
- Contribute to manuscript preparation, scientific presentations, reports and intellectual property development.
- Work closely with investigators and research teams at AIIMS Rishikesh and IIT Roorkee.
- Participate in other project-related molecular biology, microbiology, sequencing and computational activities as required.
- The candidate should be highly motivated towards translational research and development of clinically relevant diagnostic and antimicrobial susceptibility solutions.

Minimum Experience

The candidate should have:

- Ph.D. in a relevant discipline, and
- At least 2 years of post-Ph.D. research experience in Biotechnology, Molecular Biology, Microbial Genomics, Bioinformatics or a closely related field.
- Candidates with a strong publication record and demonstrated independent experience in Oxford Nanopore sequencing, Sanger Sequencing and bioinformatics analysis will be preferred.

Fellowship

The selected candidate will receive a consolidated fellowship of:

₹58,800/- per month + 10% HRA

The fellowship will be initially for two years, subject to project requirements and applicable ICMR/AIIMS rules.

How to Apply

Interested and eligible candidates should submit:

1. Cover letter clearly stating their suitability for the position;
2. Detailed Curriculum Vitae;
3. List of publications, highlighting significant publications;
4. Copies of educational qualifications and experience certificates;
5. Evidence of experience in NGS/ONT and Sanger sequencing and bioinformatics, wherever applicable;
6. Duly filled application form, if prescribed.

Duly filled application forms with CV should be submitted to
uttam.monc@aiimsrishikesh.edu.in

Terms and Conditions

1. The method of recruitment will be through an interview.
2. The selected candidate will have to join within 7 days of declaration of results.
3. The post is purely temporary and contractual and does not confer any right to regular appointment at AIIMS Rishikesh.
4. The appointment will initially be for a period of two years, extendable as per project requirements and applicable rules.
5. No claim for regular appointment in AIIMS Rishikesh shall be entertained.
6. Incomplete applications or applications received after the prescribed last date will not be considered.

7. No TA/DA will be paid for attending the interview.
8. Experience should have been acquired after obtaining the minimum essential qualification.
9. The qualification and experience may be relaxed/alterd at the discretion of the Director, AIIMS Rishikesh/Recruitment Committee, as per applicable rules.
10. No allowances/facilities other than the consolidated fellowship/salary shall be admissible.
11. The decision of the Recruitment Committee shall be final.
12. Submission of false or incorrect information at any stage will result in disqualification.
13. The appointment may be terminated if the performance of the appointee is not found satisfactory by the Principal Investigator/Nodal Officer, as per applicable terms and conditions.
14. Other terms and conditions will be governed by the applicable ICMR/AIIMS Rishikesh rules and regulations.

Last date for submission of application: 10th October, 2026