



**icmr**  
INDIAN COUNCIL OF  
MEDICAL RESEARCH

**NIE**  
NATIONAL INSTITUTE OF  
EPIDEMIOLOGY

आई सी एम आर – राष्ट्रीय जानपदिक रोग विज्ञान संस्थान  
स्वास्थ्य अनुसंधान विभाग, स्वास्थ्य और परिवार  
कल्याण मंत्रालय, भारत सरकार

**ICMR – NATIONAL INSTITUTE OF EPIDEMIOLOGY**  
Department of Health Research, Ministry of Health and  
Family Welfare, Government of India



No. NIE/PE/Advt/July/2024/11

Date: 26.07.2024

### **VACANCY NOTIFICATION**

Applications are invited for the project posts under CoAg project from the eligible candidates in the prescribed proforma appended.

1)

- A) Name of the post : **Consultant (Non-medical) (Microbiology)**  
B) Name of the project : Antimicrobial resistance in a community and hospitals (ARCH) with specific reference to extended-spectrum cephalosporin, carbapenem and colistin resistance among Enterobacterales (Phase - III)  
C) Number of Vacancies : 01 (UR)  
D) Place of posting : ICMR-NIE, Chennai  
E) Mode of submission of Application : **Through NIE Recruitment Portal**  
F) NIE Recruitment Portal Link : **<https://icmrnie.in/niecareer/commapp.php>**

<b>Essential Qualification</b>	<ul style="list-style-type: none"><li>Post Graduate degree in Microbiology/ Molecular biology/ Genomics/ Biotechnology</li></ul> <p style="text-align: center;"><b>And</b></p> <ul style="list-style-type: none"><li>Must have relevant experience in Research and Development and Published Papers</li></ul>
<b>Desirable Qualification</b>	<ul style="list-style-type: none"><li>PhD / Post-doctoral experience in molecular biology/genomics/ Bioinformatics</li><li>Experience in scientific writing as evidenced by peer-reviewed publications</li><li>Experience in NGS/WGS analyses</li></ul>
<b>Date of Online Interview</b>	Will be intimated later
<b>Age Limit</b>	70 years
<b>Remuneration</b>	Rs. 85,000/- Per month (Consolidated)
<b>Nature of Duties</b>	<p>Prospective candidate is a self-starter with strong commitment, good communication, managerial skills and the ability to work well under pressure and balance competing priorities in a demanding work environment.</p> <p>Duties include but are not limited to the following:</p> <ul style="list-style-type: none"><li>Provide support for planning, managing and implementation of the project</li><li>Close coordination with project staff and investigators at the collaborating institutions for smooth implementation of the project</li></ul>

	<ul style="list-style-type: none"> <li>• Prepare study-related protocols/ SOPs/ training materials</li> <li>• Supervise personnel involved in the project to ensure proper conduct of project activities</li> <li>• Responsible for NGS data analyses</li> <li>• Responsible for QA/QC</li> <li>• Responsible for best documentation practices in maintaining project records, reports, and inventory</li> <li>• Liaison with ICMR-NIE Admin for project-related activities such as recruitment, procurement, travel, SOE/UC etc.</li> <li>• Maintaining process measure documentation.</li> <li>• Submit daily updates on project activities to study investigators/ supervisory officers</li> <li>• Contribute to the preparation of project administrative/technical reports and presentations</li> <li>• Perform any other work assigned by the Director/ PI/ Co-PI/ Supervisory officers</li> </ul>
<b>Duration</b>	Upto 30.09.2024. (May be extended based on satisfactory performance and continuation of the project)

2)

- A) Name of the post : **Consultant (Non medical) (Bioinformatics)**  
B) Name of the project : Antimicrobial resistance in a community and hospitals (ARCH) with specific reference to extended-spectrum cephalosporin, carbapenem and colistin resistance among Enterobacterales (Phase - III)  
C) Number of Vacancies : 01 (UR)  
D) Place of posting : ICMR-NIE, Chennai  
E) Mode of submission of Application : **Through NIE Recruitment Portal**  
F) NIE Recruitment Portal Link : **<https://icmrnie.in/niecareer/commapp.php>**

<b>Essential Qualification</b>	<ul style="list-style-type: none"> <li>• Post Graduate degree in Bioinformatics/ Computational biology/ Genetics/ Genomics</li> </ul> <p style="text-align: center;"><b>And</b></p> <ul style="list-style-type: none"> <li>• Must have relevant experience in Research and Development and Published Papers</li> </ul>
<b>Desirable Qualification</b>	<ul style="list-style-type: none"> <li>• PhD/ Post-doctoral experience in Bacterial WGS/ NGS data analysis</li> <li>• Experience in molecular diagnosis/testing of infectious diseases</li> <li>• Experience in scientific writing as evidenced by peer-reviewed publications</li> <li>• Experience in using bioinformatics tools and NGS data visualization tools</li> </ul>
<b>Date of Online Interview</b>	Will be intimated later
<b>Age Limit</b>	70 years
<b>Remuneration</b>	Rs. 71,000/- Per month (Consolidated)
<b>Nature of Duties</b>	<p>Prospective candidate is a self-starter with strong commitment, good communication, managerial skills and the ability to work well under pressure and balance competing priorities in a demanding work environment.</p> <p>Duties include but are not limited to the following:</p>

	<ul style="list-style-type: none"> <li>• WGS Data Analysis: Collect, pre-process, and quality-control Illumina NextSeq WGS data for bacterial isolates.</li> <li>• Responsible for the analysis of whole genome sequence data, including genome assembly and annotation and phylogenetic analysis and screening for AMR genes, virulence factors, and plasmid factors.</li> <li>• Implement advanced bioinformatics pipelines for de novo genome assembly and variant calling.</li> <li>• Identify and annotate antimicrobial resistance genes and mutations in bacterial genomes.</li> <li>• Assess the potential impact of AMR determinants on bacterial phenotypes.</li> <li>• Linux Coding and Pipeline Development: Write, optimize, and maintain custom bioinformatics scripts and pipelines.</li> <li>• Automate data processing steps and ensure reproducibility of analyses.</li> <li>• Reports and Manuscript Writing: Generate detailed reports summarizing genomic analysis findings.</li> <li>• Contribute to the preparation of research manuscripts for publication.</li> <li>• Responsible for NGS server handling.</li> <li>• Contribute to the conduct of WGS training (Bioinformatics component)</li> <li>• Submit daily updates on project activities to study investigators/ supervisory officers</li> <li>• Contribute to the preparation of project administrative/technical reports and presentations</li> <li>• Perform any other work assigned by the Director/ PI/ Co-PI/ Supervisory officers</li> </ul>
<b>Duration</b>	Upto 30.09.2024. (May be extended based on satisfactory performance and continuation of the project)

**3)**

- A) Name of the post : **Consultant (Non medical) (Molecular Biology)**
- B) Name of the project : Antimicrobial resistance in a community and hospitals (ARCH) with specific reference to extended-spectrum cephalosporin, carbapenem and colistin resistance among Enterobacterales (Phase - III)
- C) Number of Vacancies : 01 (UR)
- D) Place of posting : ICMR-NIE, Chennai
- E) Mode of submission of Application : **Through NIE Recruitment Portal**
- F) NIE Recruitment Portal Link : **<https://icmrnie.in/niecareer/commapp.php>**

<b>Essential Qualification</b>	<ul style="list-style-type: none"> <li>• Post Graduate degree in Molecular Biology/ Biotechnology Genomics/ Genetics</li> </ul> <p style="text-align: center;"><b>And</b></p> <ul style="list-style-type: none"> <li>• Must have relevant experience in Research and Development and Published Papers</li> </ul>
<b>Desirable Qualification</b>	<ul style="list-style-type: none"> <li>• PhD/ Post-doctoral experience in Microbiology/ Molecular Biology/ Infectious diseases</li> <li>• Experience in handling NGS and QC instruments (Tapestation/Qubit).</li> </ul>

	<ul style="list-style-type: none"> <li>• Skilled in molecular testing techniques PCR, RT-PCR, Library Preparation for NGS</li> <li>• Experience in scientific writing as evidenced by peer-reviewed publications</li> </ul>
<b>Date of Online Interview</b>	Will be intimated later
<b>Age Limit</b>	70 years
<b>Remuneration</b>	Rs. 71,000/- Per month (Consolidated)
<b>Nature of Duties</b>	<p>Prospective candidate is a self-starter with strong commitment, good communication, managerial skills and the ability to work well under pressure and balance competing priorities in a demanding work environment.</p> <p>Duties include but are not limited to the following:</p> <ul style="list-style-type: none"> <li>• Design and execute experiments related to NGS applications, including library preparation, sequencing, and data generation.</li> <li>• Perform nucleic acid extraction, purification, and quantification from bacterial isolates.</li> <li>• Execute PCR, RT-PCR, and other molecular biology techniques as necessary.</li> <li>• Operate and maintain NGS platform – Illumina NextSeq1000</li> <li>• Ensure proper calibration, quality control, and troubleshooting of NGS.</li> <li>• Monitor sequencing runs, troubleshoot technical issues, and optimize protocols for improved performance.</li> <li>• Implement and maintain quality control procedures for NGS workflows.</li> <li>• Document experimental procedures, results, and observations following regulatory guidelines and standard operating procedures (SOPs).</li> <li>• Participate in laboratory audits, ensuring compliance with regulatory standards and guidelines.</li> <li>• Support WGS training (wet lab), and contribute to manuscripts development.</li> <li>• Responsible to ensure adequate stock of laboratory supplies and plan for timely procurement of additional supplies.</li> <li>• Responsible in maintenance of the NGS lab safety policies</li> <li>• Submit daily updates on project activities to study investigators/ supervisory officers</li> <li>• Contribute to the preparation of project administrative/technical reports and presentations</li> <li>• Perform any other work assigned by the Director/ PI/ Co-PI/ Supervisory officers</li> </ul>
<b>Duration</b>	Upto 30.09.2024. (May be extended based on satisfactory performance and continuation of the project)

4)

- A) Name of the post : **Consultant (Non medical) (Biostatistics)**  
 B) Name of the project : Antimicrobial resistance in a community and hospitals (ARCH) with specific reference to extended-spectrum cephalosporin, carbapenem and colistin resistance among Enterobacterales (Phase - III)  
 C) Number of Vacancies : 01 (UR)  
 D) Place of posting : ICMR-NIE, Chennai  
 E) Mode of submission of Application : **Through NIE Recruitment Portal**  
 F) NIE Recruitment Portal Link : **<https://icmrnie.in/niecareer/commapp.php>**

<b>Essential Qualification</b>	<ul style="list-style-type: none"> <li>• Post Graduate degree in Bio-statistics/ Statistics <b>And</b></li> <li>• Must have relevant experience in Research and Development and Published Papers</li> </ul>
<b>Desirable Qualification</b>	<ul style="list-style-type: none"> <li>• PhD/ Post-doctoral experience in Bio-statistics/ Statistics</li> <li>• Strong proficiency in statistical analysis and experimental design, with experience in analyzing high-throughput genomic data preferred.</li> <li>• Experience in Antimicrobial Resistance (AMR) data analysis</li> <li>• Experience in scientific writing as evidenced by peer-reviewed publications</li> <li>• Experience in advanced level statistical analyses in R or Python with familiarity in version control and code collaboration in GitHub</li> </ul>
<b>Date of Online Interview</b>	Will be intimated later
<b>Age Limit</b>	70 years
<b>Remuneration</b>	Rs. 71,000/- Per month (Consolidated)
<b>Nature of Duties</b>	<p>Prospective candidate is a self-starter with strong commitment, good communication, managerial skills and the ability to work well under pressure and balance competing priorities in a demanding work environment.</p> <p>Duties include but are not limited to the following:</p> <ul style="list-style-type: none"> <li>• Preparation of daily work sheets and study sample data base maintenance.</li> <li>• Develop and implement statistical methods and algorithms for the analysis of NGS data, including differential expression analysis, variant calling, and genomic association studies.</li> <li>• Apply advanced statistical techniques - multivariate analysis to extract biological insights from complex genomic datasets.</li> <li>• Close coordination with senior Bioinformatician for smooth implementation of the project</li> <li>• Preparation of NGS sample sheets</li> <li>• Responsible for monitoring data quality and data management</li> <li>• Responsible for handling AMR dashboard.</li> <li>• Submit daily updates on project activities to study investigators/ supervisory officers.</li> <li>• Contribute to the preparation of project administrative/technical reports and presentations</li> </ul>

	<ul style="list-style-type: none"> <li>• Perform any other work assigned by the Director/ PI/ Co-PI/ Supervisory officers</li> </ul>
<b>Duration</b>	Upto 30.09.2024. (May be extended based on satisfactory performance and continuation of the project)

5)

- A) Name of the post : **Consultant (Non-medical) (Microbiology) (Jr.)**  
B) Name of the project : Antimicrobial resistance in a community and hospitals (ARCH) with specific reference to extended-spectrum cephalosporin, carbapenem and colistin resistance among Enterobacterales (Phase - III)  
C) Number of Vacancies : 01 (UR)  
D) Place of posting : ICMR-NIE, Chennai  
E) Mode of submission of Application : **Through NIE Recruitment Portal**  
F) NIE Recruitment Portal Link : **<https://icmrnie.in/niecareer/commapp.php>**

<b>Essential Qualification</b>	<ul style="list-style-type: none"> <li>• Postgraduate degree in Microbiology/ Medical Laboratory Technology</li> </ul> <p style="text-align: center;"><b>And</b></p> <ul style="list-style-type: none"> <li>• Must have relevant experience in Research and Development and Published Papers</li> </ul>
<b>Desirable Qualification</b>	<ul style="list-style-type: none"> <li>• Hands-on experience in microbiological techniques as evidenced from work experience in recognized diagnostic/hospital/ medical research institutions</li> <li>• Experience in performing bacterial culture and molecular techniques viz. nucleic acid extraction, PCR, serology etc.</li> <li>• Working knowledge of MS Office applications</li> </ul>
<b>Date of Online Interview</b>	Will be intimated later
<b>Age Limit</b>	70 years
<b>Remuneration</b>	Rs. 36,000/- Per month (Consolidated)
<b>Nature of Duties</b>	<p>Prospective candidate is a self-starter with strong commitment, good communication, managerial skills and the ability to work well under pressure and balance competing priorities in a demanding work environment.</p> <p>Duties include but are not limited to the following:</p> <ul style="list-style-type: none"> <li>• Perform bacteriological culture isolation and identification, AST, PCR, serology etc., as may be applicable/ required for the project.</li> <li>• Perform appropriate storage of samples/ isolates</li> <li>• Extract high-quality nucleic acids (DNA/RNA) from bacterial isolates using established protocols and techniques.</li> <li>• Maintain laboratory testing records and isolate inventories</li> <li>• Submit daily updates on project activities to study investigators/ supervisory officers</li> <li>• Perform any other work assigned by the Director/ PI/ Co-PI/ Supervisory officers</li> </ul>
<b>Duration</b>	Upto 30.09.2024. (May be extended based on satisfactory performance and continuation of the project)

6)

- A) Name of the post : **Consultant (Non medical) (Molecular Biology) (Jr.)**  
B) Name of the project : Antimicrobial resistance in a community and hospitals (ARCH) with specific reference to extended-spectrum cephalosporin, carbapenem and colistin resistance among Enterobacterales (Phase - III)  
C) Number of Vacancies : 01 (UR)  
D) Place of posting : ICMR-NIE, Chennai  
E) Mode of submission of Application : **Through NIE Recruitment Portal**  
F) NIE Recruitment Portal Link : **<https://icmrnie.in/niecareer/commapp.php>**

<b>Essential Qualifications</b>	<ul style="list-style-type: none"><li>• Postgraduate degree in Biotechnology/ Molecular Biology/ Genomics/ Genetics</li></ul> <p style="text-align: center;"><b>And</b></p> <ul style="list-style-type: none"><li>• Must have relevant experience in Research and Development and Published Papers</li></ul>
<b>Desirable Qualifications and Experience</b>	<ul style="list-style-type: none"><li>• Hands-on experience in microbiological techniques as evidenced from work experience in recognized diagnostic/hospital/ medical research institutions</li><li>• Experience in performing bacterial culture and molecular techniques viz. nucleic acid extraction, PCR, serology etc.</li><li>• Working knowledge of MS Office applications</li></ul>
<b>Date of Online Interview</b>	Will be intimated later
<b>Age Limit</b>	70 years
<b>Remuneration</b>	Rs. 36,000/- Per month (Consolidated)
<b>Nature of Duties</b>	<p>Prospective candidate is a self-starter with strong commitment, good communication, managerial skills and the ability to work well under pressure and balance competing priorities in a demanding work environment.</p> <p>Duties include but are not limited to the following:</p> <ul style="list-style-type: none"><li>• Perform DNA extraction</li><li>• Preparation of molecular reagents</li><li>• Assisting the project scientist in molecular testing</li><li>• Responsible for cold storage device logs of the archived isolates and the extracted DNA.</li><li>• Assisting the project scientist in molecular testing</li><li>• Submit daily updates on project activities to study investigators/ supervisory officers</li><li>• Perform any other work assigned by the Director/ PI/ Co-PI/ Supervisory officers</li></ul>
<b>Duration</b>	Upto 30.09.2024. (May be extended based on satisfactory performance and continuation of the project)

7)

- A) Name of the post : **Consultant (Non medical) (Bioinformatics) (Jr.)**  
B) Name of the project : Antimicrobial resistance in a community and hospitals (ARCH) with specific reference to extended-spectrum cephalosporin, carbapenem and colistin resistance among Enterobacterales (Phase - III)  
C) Number of Vacancies : 01 (UR)  
D) Place of posting : ICMR-NIE, Chennai  
E) Mode of submission of

Application : **Through NIE Recruitment Portal**  
 F) NIE Recruitment Portal Link : **<https://icmrnie.in/niecareer/commapp.php>**

<b>Essential Qualifications</b>	<ul style="list-style-type: none"> <li>Postgraduate degree in Bioinformatics/ Computational Biology</li> </ul> <p style="text-align: center;"><b>And</b></p> <ul style="list-style-type: none"> <li>Must have relevant experience in Research and Development and Published Papers</li> </ul>
<b>Desirable Qualifications and Experience</b>	<ul style="list-style-type: none"> <li>Hands-on experience in bioinformatics tools as evidenced from work experience in recognized research institutions</li> <li>Experience in DNA sequencing data handling</li> <li>Working knowledge of MS Office applications</li> </ul>
<b>Date of Online Interview</b>	Will be intimated later
<b>Age Limit</b>	70 years
<b>Remuneration</b>	Rs. 36,000/- Per month (Consolidated)
<b>Nature of Duties</b>	<p>Prospective candidate is a self-starter with strong commitment, good communication, managerial skills and the ability to work well under pressure and balance competing priorities in a demanding work environment.</p> <p>Duties include but are not limited to the following:</p> <ul style="list-style-type: none"> <li>Managing WGS data.</li> <li>Perform basic analysis, including base call generation reports and assembly of short sequences reads under the supervision of the project senior bioinformatician.</li> <li>Perform basis metrics results from WGS.</li> <li>Assisting the project scientist in molecular testing.</li> <li>Submit daily updates on project activities to study investigators/ supervisory officers.</li> <li>Perform any other work assigned by the Director/ PI/ Co-PI/ Supervisory officers</li> </ul>
<b>Duration</b>	Upto 30.09.2024. (May be extended based on satisfactory performance and continuation of the project)

**8)**

A) Name of the post : **Consultant (Non medical) (Biostatistics) (Jr.)**  
 B) Name of the project : Antimicrobial resistance in a community and hospitals (ARCH) with specific reference to extended-spectrum cephalosporin, carbapenem and colistin resistance among Enterobacterales (Phase - III)  
 C) Number of Vacancies : 01 (UR)  
 D) Place of posting : ICMR-NIE, Chennai  
 E) Mode of submission of Application : **Through NIE Recruitment Portal**  
 F) NIE Recruitment Portal Link : **<https://icmrnie.in/niecareer/commapp.php>**

<b>Essential Qualifications</b>	<ul style="list-style-type: none"> <li>Postgraduate degree in Bio-statistics/ Statistics</li> </ul> <p style="text-align: center;"><b>And</b></p> <ul style="list-style-type: none"> <li>Must have relevant experience in Research and Development and Published Papers</li> </ul>
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<b>Desirable Qualifications and Experience</b>	<ul style="list-style-type: none"> <li>• Should have strong foundation in statistics/biostatistics.</li> <li>• Knowledge of data handling, analysis and interpretation, report writing.</li> <li>• Knowledge of computer applications and statistical software like SPSS and STATA</li> <li>• Working knowledge of MS Office applications (Word, Excel, PowerPoint)</li> </ul>
<b>Date of Online Interview</b>	Will be intimated later
<b>Age Limit</b>	70 years
<b>Remuneration</b>	Rs. 36,000/- Per month (Consolidated)
<b>Nature of Duties</b>	<p>Prospective candidate is a self-starter with strong commitment, good communication, managerial skills and the ability to work well under pressure and balance competing priorities in a demanding work environment.</p> <p>Duties include but are not limited to the following:</p> <ul style="list-style-type: none"> <li>• Perform data entry of lab results to the electronic database.</li> <li>• Perform data analysis per project objectives as directed by the senior Statistician and project scientist.</li> <li>• Submit daily updates on project activities to study investigators/ supervisory officers.</li> <li>• Perform any other work assigned by the Director/ PI/ Co-PI/ Supervisory officers</li> </ul>
<b>Duration</b>	Upto 30.09.2024. (May be extended based on satisfactory performance and continuation of the project)

### **How to apply:**

1) The candidates applying for the post should first confirm their eligibility as per Advertisement on the website of the Institute i.e. <https://nie.icmr.org.in>. They should also ensure that they have a valid personal e-mail ID and mobile number. Candidate should note that the e-mail ID and mobile number are to be kept active during the recruitment process.

2) All eligible candidates willing to apply in response to this advertisement notice should visit **NIE Recruitment Portal** and register himself / herself before the last date. For applying the project posts, one should select advertisement number of this notice and fill other details i.e. post applied for, Name of candidate, Date of birth, category, e-mail ID, mobile number etc. Upon successful registration, the user name/application number and password will be sent to the e-mail ID used during registration.

3) Candidate(s) should note that no edit option will be available to them after saving the application finally. Therefore, the candidates are advised to fill all the details regarding name, category, qualification, experience etc. carefully. Candidates are also advised to ensure that they have uploaded the correct photograph.

**4) Filled application along with supporting documents should be submitted through “NIE Recruitment Portal” on or before closing date: 09.08.2024 to 05.30 p.m.**

### **Instruction to the candidates**

1. The crucial date for determining the age limit shall be the closing date for receipt of application.
2. Experience certificate should clearly state the nature of work during the period of employment. Appointment order, pay slip will not be accepted in place of experience certificate. Experience certificate should contain salary per month and duration.
3. No-Objection Certificate from the current employer (for Govt./AB/PSU Servants only).
4. The above said post is Contractual for the duration offered. The appointment may be renewed after every specific period of time subject to satisfactory performance and project requirement.
5. The incumbents selected will have no claim for regular appointments under NIE/ICMR or continuation of his/her services in any other project.
6. TA/DA will not be paid by NIE for attending the written test/interview.
7. The Director, ICMR-NIE reserves the right to increase or decrease the number of posts or cancel the recruitment or re-advertise the posts, without assigning any reasons thereof, no further correspondence will be entertained in this regard.
8. Candidates are advised to check ICMR – NIE website regularly for further information or changes, which will be updated from time to time.
9. Date and time of online interview will be intimated by Email separately to the eligible candidates.
10. Incomplete applications without relevant enclosures will not be considered.

**DIRECTOR**