



Positions available

National Institute of Biomedical Genomics (NIBMG) Kalyani is an Institute of Government of India, Ministry of Science & Technology, Department of Biotechnology. The Institute has created the necessary physical infrastructure and critical platform technologies to support research, translation and training in biomedical genomics.

Applications are invited for the position of Project Linked Persons for extramural projects to be executed by the National institute of Biomedical Genomics, Kalyani. Selected applicants will be appointed for a period of **9 Months**. The tenure of appointment may be extended depending on performance and availability of funds.

ProjectName: Title: Diabetic Retinopathy Microbiome Study-India (DRMS-India)

Principal Investigator's name: Dr. Souvik Mukherjee

Research Description: Diabetes affects 10% of Indian adults, with diabetic retinopathy (DR) impacting up to 20%, causing irreversible vision loss in 4%. Current DR treatments often have low success rates and lengthy procedures. Recent research in Telangana and Andhra Pradesh highlighted links between gut bacteria and DR in those with diabetes. The DRMS aims to deepen this connection by analyzing stool samples from people with diabetes, diabetes-related retinopathy, and those without health issues. Participants will provide stool and blood samples at no cost. Stool DNA analysis will identify bacteria, while blood tests will assess diabetes levels and related conditions routinely checked in diabetics. This study seeks to shed more light on the role of gut bacteria in DR progression for better understanding and potential treatment advancements.

In this project the wet laboratory work-based applicant will be responsible for hands-on Human samples handling, human and microbial DNA RNA isolation, primer designing, PCR, Real Time PCR, DNA sequencing and other Molecular Biological techniques involving human cell/microbial culture. He/she will also be responsible for project data management on a daily basis.

The data analyst applicant will be responsible for handling high throughput human and microbiome sequence data on a daily basis. He/she will catalogue the changes in bacterial, viral, and fungal composition and its gene families, pathways from human microbiome samples using whole shotgun metagenome sequencing along with highlighting the novel interplay between host and metagenomic correlates in diseased individuals.

Place of Work: National Institute of Biomedical Genomics, P.O.: N.S.S., Kalyani 741251, West Bengal.

Name of the Position	No. of position	Essential Education Qualification	Desirable Qualification	Nature of work & Responsibilities	Consolidated and fixed monthly emolument (₹)
Senior Laboratory Analyst	1	<p>1. M.Sc./ M. Tech in Life Science or equivalent with at least 4 years hands on research experience in wet lab molecular-biological/microbiological experiments or Ph.D. in Life Science or equivalent with experience in wet lab molecular-biological/microbiological experiments</p> <p>2. Age limit 40 years</p>	<p>1. Experience in biological sample handling, Human and Microbial DNA/RNA isolation and related molecular biological experiments</p> <p>2. Hands-on experience in human cell culture/anaerobic microbial culture, <i>in vitro</i> functional assays and related molecular and cell biology experiments.</p>	<p>1. Designing and conducting experiments from different kinds of clinical biospecimens, gathering, organizing, and summarizing data; writing manuscripts; coordination between participating centers on the work progress, writing experimental protocols; preparing various reports; contributing to grant applications and progress reports; training new personnel.</p> <p>2. Formulation of SOPs and maintaining GLP with proper documentations of day-to-day lab activities</p> <p>3. Maintenance of Stock and Purchase Indenting</p>	50,000/-

Senior Data Analyst	1	<p>1. M.Sc./ M. Tech in Life Science or equivalent with at least 4 years hands on research experience in bioinformatic analysis of genomic/metagenomic data or Ph.D. in Life Science or equivalent with expertise in bioinformatics of genomic/metagenomic data</p> <p>2. Age limit 40 years</p>	<p>1. Hands on experience in DNA sequence data analysis from FASTQ files, particularly on Human genomic or Metagenomic samples using standard data analysis pipeline.</p> <p>2. Proficiency in Shotgun Metagenomics and 16S rRNA Gene Sequence data analysis</p> <p>3. Good knowledge in Perl/Python, Linux, and R programming</p> <p>4. Proficiency in English and good communication skills</p>	<p>1. Analysis of DNA, RNA sequence files from massively – parallel sequencing platforms, and preparing summaries and reports of data analysis.</p> <p>2. Performing day to day statistical analysis on the analysed data and assisting the Project PI for data interpretation and coordination with other participating centers</p> <p>3. Development of newer analysis pipelines focusing on human genomic and metagenomic data analysis</p>	50,000/-
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This position is contractual. The appointment will be initially given for nine months, which is extendable depending upon performance, requirement of the project and availability of funds. Interested candidates need to send mail with a copy of the CV to sm2@nibmg.ac.in. The last date of application is **12-02-2024 (upto 12 midnight)**. Please visit www.nibmg.ac.in for further information. Only the shortlisted candidates will be called for an interview. The interview will be held only in ON-LINE (Google Meet Platform) mode.

All Educational, Professional and Technical qualifications should be from a recognized Board/University. Fulfillment of essential qualifications and experience does not automatically entitle a candidate to be shortlisted or called for Interview.

Canvassing in any form or bringing influence will lead to disqualification of the candidate. The decision of NIBMG in all matters relating to eligibility, acceptance or rejection of application, mode of selection, and conduct of interviews will be final and binding on the candidates. In exceptionally meritorious cases, the eligibility requirements may be relaxed by the competent authority.

Manager-Administration