

BRIC-NATIONAL INSTITUTE OF BIOMEDICAL GENOMICS
(An Autonomous Institution of the Government of India)



P.O.: N.S.S., Kalyani 741251, West Bengal, INDIA

www.nibmg.ac.in

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Date: 18-03-2025

Position 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 up to **30th September 2025**. The tenure of appointment may be extended depending on performance and availability of funds.

Project Name: 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 Senior Project Associate 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 Project Associate | 1 | 1. M.Sc./ M. Tech in Life Science or equivalent with atleast 4 years hands on research experience in bioinformatic analysis of genomic/meta genomic data or Ph.D.in Life Science or equivalent with expertise in bioinformatics of genomic/meta genomic data 2. Age limit of 40years as on last date of application | 1. Hands-on experience in DNA sequence data analysis from FASTQ files, particularly on Human genomic or Metagenomic samples using standard data analysis pipeline. 2. Proficiency in Shotgun Metagenomics and 16S rRNA Gene Sequence data analysis 3. Good knowledge in Perl/Python, Linux, and R programming 4. Proficiency in English and good communication skills | 1. Analysis of DNA, RNA sequence files from massively – parallel sequencing platforms, and preparing summaries and reports of data analysis. 2. Performing day-to-day statistical analysis on the analyzed data and assisting the Project PI for data interpretation and coordination with other participating centers 3. Development of newer analysis pipelines focusing on human genomic and metagenomic data analysis 4. Management of the documents and procurement of the items pertaining to the project | 42,000/- + 27% HRA = 53,340 |

This position is contractual. The appointment will be initially given up to **30th September 2025**, which is extendable depending upon performance, requirements of the project and availability of funds.

Interested candidates need to send mail with a copy of the CV (**in proper format given in Annexure-I on next page**) to **applsmlab@gmail.com** . The last date of application is **11-04-2025 (Friday up to 12 midnight)**. If CV will be submitted in any other format will not be considered.

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 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.

Associate Director

Annexure-I



Application Form for Selection under Research Projects/Studies

Advt. No.: _____

Post Applied for: _____

Project Name.: _____

*Affix a Recent
Passport Size
Photograph*

1. Name in full (in block letters)

2. Address (in block letters)
(i) For Communication _____

(ii) Present _____

(iii) Permanent _____

(iv) Email: _____

(v) Phone (Mobile): _____

3. Particulars of age and birth (as per Matriculation or equivalent Certificate)

(i) Date of Birth (DD-MM-YYYY) _____ (ii) Age: _____

(iii) Place of Birth _____ (iv) Nationality: _____

4. Other Particulars:

Gender:

Marital Status:

5. Father's Name _____ Mother's Name _____

Spouse Name _____

6. Category (SC/ST/OBC):

(Please attach a photocopy of the relevant certificate)

7. Particulars of Qualification and Experience:

(Please feel free to attach a separate sheet in case of insufficient space. Original Certificate/testimonials in support of qualification & experience would be required to be shown at the time of interview & joining (if selected))

All the relevant attachments should be merged in a single PDF format.

(i) Qualifications (in reverse chronological order): -

| Educational/Technical/ Professional Exam Pursuing/Passed (Full Time/ Part Time) | Main Subject | Grades/ Division | % of marks obtained | Year of passing | Name of the University/ Board |
|--|--------------|---------------------|---------------------------|-----------------------|-------------------------------------|
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(ii) Whether NET/GATE Qualified: Yes/No

If yes, please give details. _____

(iii) Total Experience (in reverse chronological order):

| Employer | Designation | Period | | Length of Yrs Months | Nature of duties/ area of specialization etc. | Remuneration (Rs.) |
|----------|-------------|--------|----|----------------------------|--|-----------------------|
| | | From | To | | | |
| | | | | | | |
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(iv) Any Other relevant Information (Details of Special achievements, Awards, Trainings, etc., if any)

(v) Relevant Experience:

a) Hands on experience in DNA sequence data analysis from FASTQ files, particularly on Human genomic or Metagenomic samples using standard data analysis pipeline

Yes No

Details of experience (Maximum 50 words):

b) Proficiency in Shotgun Metagenomics and 16S rRNA Gene Sequence data analysis

Yes No

Details of expertise (Maximum 50 words):

c) Good knowledge in Perl/Python, Linux, and R programming

Yes No

Details of experience (Maximum 50 words):

d) Proficiency in English and good communication skills

Yes No

I hereby declare that all particulars in this form are correct and true to the best of my knowledge & belief, and nothing has been concealed therein. I shall bring the original degrees, certificates, and other documents in support of the above information for verification at the time of test/interview.

PLACE: _____

SIGNATURE OF THE APPLICANT

DATE: