

Advertisement No. NIBMG/ADMIN/ESTB/Advt./2024-25/321

Date:19/12/2024

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 **12 Months**. The tenure of appointment may be extended depending on performance and availability of funds.

Project Name: Title: Investigating the Gut Microbiome and Host Epigenomic Profiles in Preterm Stunted Infants at 6 months of Age in a Low to Mid Socioeconomic Neighborhood of North India

Principal Investigator's name: Dr. Souvik Mukherjee

Research Description:

Stunting is a global problem; 25% of children less than 5 years are stunted. It is represented as the percentage of children whose length (height) for age is less than -2 S.D. below WHO's Child Growth Standard median. India has the highest number of stunted children (40.6 million; 38.4% annually), representing one-third of the global burden. Preterm born and low birth weight babies who survive are more likely to face developmental retardation, poor immunity, and consistent infections resulting in stunting. The prevalence of stunting in children at 6 months of age is around 16-20% and it is even higher in preterm infants (35%). Preterm babies are at a higher risk for anthropometric short stature during childhood. Hence, in our study, we will focus on the preterm born stunted infants only. The gut microbiome colonization significantly differs between preterm and term infants and is thought to play a major role in shaping their initial immunity. The gut microbiome composition slowly develops from birth and any imbalance in them can be linked with reduced immunity and future health problems. Other studies have shown that specific gut microbial pathways produce metabolites that can alter host gene expression profiles by epigenetic modifications. This gut microbiome-host epigenome axis impacts several metabolic functions of the human body such as nutrients absorption, regulation of intestinal hormone secretion, host immunity and inflammatory processes. Here, we propose a study focusing on metagenomic profiles and their role in shaping the DNA methylation patterns for identification of predictive/prognostic biomarkers of stunting in preterm infants at the first six months of life.

In this project the applicant will be responsible for:

- Home collection of saliva and blood samples in the field

- Coordinate specimen transport to CRL or designated laboratory from the field in consultation with the technical leads/team
- Fill in relevant forms and maintain the documentation.
- Carry out the daily field and lab activities.
- Ensure smooth operations at the lab processing unit.
- Maintain supplies and infrastructure related requirements.

Place of Work: Clinical and Research Laboratories, Society for Applied Studies (CRL-SAS), South Delhi (Devli), New Delhi, India

Name of the Position	No. of position	Essential Education Qualification	Desirable Qualification	Nature of work & Responsibilities	Consolidated and fixed monthly emolument (₹)
Project Assistant	1	1. Bachelor's degree or 3-year diploma in Engineering and Technology or any other relevant field	2. DMLT/ bachelor's degree in MLT with graduation in life sciences 3. Experience of working in field / research setting 4. Experience in blood/saliva sample collection in field settings 5. Experience of processing blood samples in a laboratory 6. Exposure to NABL/GCLP settings	1. Home collection of saliva and blood samples in the field 2. Coordinate specimen transport to CRL or designated laboratory from the field in consultation with the technical leads/team 3. Fill in relevant forms and maintain the documentation. 4. Carry out the daily field and lab activities. 5. Ensure smooth operations at the lab processing unit. 6. Maintain supplies and infrastructure related requirements.	20,000 + 27% HRA Total: 25,400/-

This position is contractual. The appointment will be initially given for one year, 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 applsmlab@gmail.com. The last date of application is **03-01-2025 (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 (Microsoft Teams 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

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 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 attachment 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

(ii) Whether NET/GATE Qualified: Yes/No

If yes, please give details. _____

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

Employer	Designation	Period From To		Length Yrs Months	Nature of duties/ area of specialization etc.	Remuneration (Rs.)

(iv) Any Other relevant Information (Details of Special achievements, Awards, Trainings, etc., if any)

(v) Relevant Experience:

a) DMLT/ Bachelor Degree in MLT with graduation in life sciences

☐ Yes ☐ No

b) Experience of working in field / research setting

☐ Yes ☐ No

Details of experience (e.g., duration, techniques used) (Maximum 50 words):

c) Experience in blood/stool sample collection in field settings

☐ Yes ☐ No

Details of experience (e.g., types of samples collected, protocols followed): (Maximum 50 words):

d) Experience of processing blood/stool samples in a laboratory

☐ Yes ☐ No

Details of experience (e.g., duration, techniques used) (Maximum 50 words):

e) Exposure to NABL/GCLP settings

☐ 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: