

Advt. No. 26/Project/2023/HR

Interview for Project Scientist-II & Principal Project Associate positions

Title of Project: Inter-Institutional Program for Maternal, Neonatal and Infant Sciences A translational approach-interdisciplinary Group for Advanced Research on Birth outcomes-DBT India Initiative (GARBH-Ini Phase II).

Preterm birth poses a significant global public health Challenge, being the leading cause of neonatal fatalities. India accounts for roughly a quarter of all preterm births and associated deaths worldwide. Understanding the molecular mechanisms behind preterm birth is crucial for early prediction and prevention. The RCB spearheads a mass spectrometry-based proteomics project to investigate protein alterations across pregnancy stages, identifying those linked to preterm birth and related molecular pathways. The ultimate project objection is to pinpoint biomarkers for early preterm birth prediction and potential drug discovery targets.

Duration: Initially for 6 months and may be extended after performance evaluation on every six months till the end of project.

Age Limit: 40 Years as on 12.10.2023

1. Project Scientist II

Essential Qualifications: (i) Ph.D. in Natural Science (Chemistry / Biotechnology / Life Science / Data Science and Bioinformatics). Candidate must have at least one relevant publication in science citation indexed (SCI) journal.

(ii) Candidate must have at least three years' experience in Research and Development in Industrial and Academic Institutions or Science and Technology Organizations and scientific activities and services.

Desirable Qualifications: (i) Candidate must have strong knowledge of protein science.

(ii) Experience on mass spectrometry-based proteomics workflow including PTM analysis.

(iii) Candidate with bioinformatics background must have strong knowledge of computer programming and previous use and familiarly of R and Python statistical programming software. Candidate with the experience in AI and Machine Learning will be given preferences.

Job responsibilities:

Mass Spectrometry: Preparing samples and acquiring data for proteomics, metabolomics, and lipidomics using HRMS and targeted platforms.

Data Analysis: Analyzing extensive biological datasets in proteomics and metabolomics to extract valuable insights, identify patterns, trends, and potential biomarkers.

Algorithm Development: Designing and crafting computational algorithms, mathematical models, and statistical methods to interpret biological data, simulate biological processes, and tackle specific research inquiries.

Bioinformatics Tools: Employing diverse bioinformatics tools and software for processing, analyzing, visualizing, and interpreting biological data. This encompasses programming languages such as Python and R, along with specialized tools for sequence analysis, structural biology, and pathway analysis.

Network Analysis: Constructing and dissecting biological networks, encompassing gene regulatory networks, protein-protein interaction networks, and metabolic pathways, to gain a deeper understanding of intricate biological systems.

Principal Investigator: Dr. Tushar Kanti Maiti, Professor

No. of Position: One

Emoluments: Rs. 83,080/- (Rs. 67,000/- + 24% HRA) per month

2. Principal Project Associate

Essential Qualifications: (i) Ph.D. in Natural Science (Data Science and Bioinformatics). Candidate must have at least one relevant publication in science citation indexed (SCI) journal.

Desirable Qualifications: Candidate with bioinformatics background must have strong knowledge of computer programming and previous use and familiarly of R and Python statistical programming software. Computational Biologist with extensive experience in AI and Machine Learning will be given preferences.

Job responsibilities:

Data Analysis: Analyzing extensive biological datasets in proteomics and metabolomics to extract valuable insights, identify patterns, trends, and potential biomarkers.

Algorithm Development: Designing and crafting computational algorithms, mathematical models, and statistical methods to interpret biological data, simulate biological processes, and tackle specific research inquiries.

Bioinformatics Tools: Employing diverse bioinformatics tools and software for processing, analyzing, visualizing, and interpreting biological data. This encompasses programming languages such as Python and R, along with specialized tools for sequence analysis, structural biology, and pathway analysis.

Network Analysis: Constructing and dissecting biological networks, encompassing gene regulatory networks, protein-protein interaction networks, and metabolic pathways, to gain a deeper understanding of intricate biological systems.

Principal Investigator: Dr. Tushar Kanti Maiti, Professor

No. of Position: One

Emoluments: Rs. 60,760/- (Rs. 49,000/- + 24% HRA) per month

Interested candidates should apply online by 12th October, 2023, 5:00 PM.

[Click here to apply online](#)

The shortlisted candidates will be informed by **16th October, 2023** via email to appear in the online interview to be held at **11:00 AM on 20th October, 2023.**

For any query, you may contact PI by email: tkmaiti@rcb.res.in

Please upload copies of the following documents:

- 1) All degree certificates.
- 2) Publication list.

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