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National Institute of Biomedical Genomics is looking for bright and motivated minds in the fields of Genomics

## **Systems Medicine Cluster (SyMeC): Accelerating Systems Medicine using a Cluster Approach**

Today, medicine is largely reactive. A medical practitioner treats the illness of a person, with varying levels of success. With the rise of genomics and the accumulation of large amounts of data on various diseases, a new systems-based approach to medicine has emerged. Clinical practitioners and researchers are increasingly realising that our bodies do not work as a set of independent components, but rather as an interacting *system*, with genes, proteins, cells and organs interacting with each other and the environment in complex ways. The understanding of this system will result in a transcendental change in medical practice; *from reactive medicine, based on disease, to a predictive and preventive one centred on health*. However, to effect this transition, complementary multi-domain expertise and experience are necessary.

In conformity with the national priority of stimulating investment in biotechnology, a Biocluster has been created. The Biocluster is a platform – both intellectual and logistical – for generating required biological and medical evidence to accelerate systems medicine. The Biocluster comprises six institutions:

- Bose Institute,
- CSIR-Indian Institute of Chemical Biology,
- Indian Institute of Science Education & Research,
- Indian Statistical Institute,
- National Institute of Biomedical Genomics,
- Tata Medical Centre;

with the National Institute of Biomedical Genomics serving as the co-ordinating institution. The Biocluster is funded by the Department of Biotechnology, Ministry of Science & Technology, Govt. of India.

We are looking for motivated and bright individuals interested to explore career opportunities in this innovative multi-organization initiative in Systems Medicine at NIBMG in the positions mentioned as below:

Name of the position	No. of Positions	Tenure	Consolidated Remuneration [INR] per month	Essential Qualifications	Desirable Qualifications	Nature of Duty
Technical Specialist	4	6 months	40,000/-	(1) MSc or equivalent (or BSc with 3 years laboratory experience) in Genetics/Life Sciences/Biochemistry/related discipline; (2) Minimum 3 years of experience of working with high-throughput genomics platforms.	(1) Experience in whole genome/targeted sequencing, RNA-Seq, GWAS and Methylation Array (2) Experience in DNA and RNA isolation from archived bio specimens e.g. FFPE tissue	Hands-on massively parallel sequencing, microarray laboratory work and instrument operations as well as other related laboratory activities

Computational Laboratory Manager	1	6 months	80,000/-	(1) PhD in Statistics , Computer Science, Computational Biology or related discipline, (2) Minimum 3 years of experience of working in large statistical / bigdata / genomics projects/consultancy, (3) Experience in management of computational laboratory (4) Demonstrated knowledge of computer programming and data management (5) Strong letters of recommendation from previous employers/supervisors	(1) Degree/Diploma in Management; (2) Conversance with Quality Assurance and GLP (IT), (3) Proven track record of independent academic work and leadership	(1) Management and coordination (including hands on work) of computational facilities, execution of data analysis for projects in time bound manner, (2) Implementation of Quality Assurance and GLP (IT) measures (3) Report writing
Data Analyst	2	6 months	40,000/-	(1)B.Tech/M.Tech, MSc or equivalent in Computer Science/Computer Applications/ Bioinformatics or a related discipline (2) High proficiency in programming in C/C++, Java or python (3) Proficiency in UNIX command line scripting and (4) Prior experience in high-throughput data (NGS) analysis (5)Strong communication skills and the ability to work as part of the team is essential.	(1) Handling of software packages and genomic databases (2) Experience in handling large volume DNA sequence / genotyping data in large projects	(1) QA/QC and analysis of raw sequence data generated by massively parallel DNA sequencing platforms, (2) Programing, design and operation of massively parallel DNA sequencing data analysis pipelines and (3) Report writing DNA sequencing data analysis pipelines
Project Coordinator (Administration)	1	6 months	40,000/-	1. MSc or equivalent in Life Sciences or related subject	(1) Experience in life science/genomics services industry (2) Experience in project planning, oversight of time execution.	Will provide administrative support for management of project activities, inventory management, procurement of reagents and consumables, documentation.

These positions are contractual and appointments will be initially given as per tenure of the project, extendable depending upon performance and requirements of the project. Please apply online at <https://apply.nibmg.ac.in> (no other form of application will be accepted). The last date of application is **11<sup>th</sup> August, 2020 upto 5PM**. Please visit our website [www.nibmg.ac.in](http://www.nibmg.ac.in) for further information. Only the shortlisted candidates will be called for online Interview. 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 competent authorities relaxed by the competent authority.