

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



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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 Project	Name of the position	No. of Positions	Consolidated Retainer Fee [INR] per month	Essential Qualifications	Desirable Qualifications	Nature of Duty
SyMeC	Experimental Laboratory Manager	1	60,000/- to 80,000/-	1) PhD in Genomics or a related discipline, (2) Minimum 5 years of experience of working on high-throughput genomics platforms, (3) Experience in management of biological laboratory, (4) Strong letters of recommendation from previous employers/supervisors	(1) Degree/Diploma in Management; (2) Conversance with Quality Assurance and GLP; (3) Proven track record of independent academic work and leadership; (4) Two years' experience in management of a service laboratory	(1) Management and coordination (including hands on work) of laboratory facilities, execution of projects in time bound manner, (2) Implementation of Quality Assurance and GLP measures
	Technical Specialist Tier-2	1	25,000/- to 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	60,000/- to 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

International Cancer Genome Consortium – India Project (ICGC)

The International Cancer Genome Consortium (ICGC) has been launched to coordinate large-scale cancer genome studies in tumours from 50 different cancer types that are of clinical and societal importance across the globe. The Indian initiative of the ICGC is on gingivo-buccal oral cancer (GBOC). The ICGC Laboratory of the National Institute of Biomedical Genomics is the site of genomic analyses of the initiative, which consists of next generation sequencing, genome wide scan and related activities. The ICGC – India Project 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 these high throughput cutting edges laboratory technologies in genomics for the technical positions as follows:

Name of Project	Name of the position	No. of Positions	Consolidated Retainer Fee [INR] per month	Essential Qualifications	Desriable Qualifications	Nature of Duty
ICGC	Technical Specialist	1	23,000/- to 30,000/-	(1)MSc or equivalent (or BSc with 3 years laboratory experience) in Genetics/Life Sciences/Biochemistry/related discipline; (2) Minimum 1 year of experience in genomics laboratory work	(1)Hands-on experience in massively parallel sequencing/ Sanger-CE sequencing/ microarray based genotyping or gene expression	Hands-on massively parallel sequencing laboratory work and instrument operations as well as other related laboratory activities
	Senior Technical Specialist	2	28,000/- to 35,000/-	(1)MSc or equivalent in genetics/life sciences/biochemistry/related discipline (2)minimum of two years of demonstrated experience in DNA/RNA work, PCR, DNA sequencing, genotyping	(1) Hands-on experience in massively parallel sequencing/ microarray based genotyping or gene expression	Management of and hands-on massively parallel sequencing, microarray laboratory work and instrument operations as well as other related laboratory activities
	Data Analyst	2	23,000/- to 30,000/-	(1) First Class B.Tech/M. Tech/MSc/ MCA degree or equivalent in Computer Science / Bioinformatics or a related discipline (2) Experience in programming (atlest one of the following) - C/C++, Java, R or python (3) Proficiency in UNIX command line (4) Strong communication skills and the ability to work as part of the team is essential.	(1) Handling of NGS analysis 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
	Project Manager 1	1	83,000/- to 90,000/-	(1) M.Sc./M.B.A., (2)experience in management and co-ordination of large multi-centre projects	(1)M.Sc. in an area of life sciences (2) Experience in liaising with international organizations	(1) Management of administrative and financial aspects of the project, (2) Coordinating financial and administrative activities with the Department of Biotechnology (3) Preparation, Collation and submission of reports, and co-ordination with member countries of the international consortium

Project Manager 2	1	83,000/- to 90,000/-	(1) PhD in life sciences or a related discipline, (2) Demonstrated record of accomplishment and experience in high throughput sequencing and genotyping platforms and/or management of large genomics projects	(1) Experience in management of genome-scale sequence and variant data (2) Demonstrated skills in data analysis and interpretation (3) Experience in cell culture, FACS and related functional assays.	(1) Management of all scientific activities of the project, (2) Quality assurance, adherence to international protocols in respect of experiments, (3) Data generation, timeline tracking, data transfer and computational analyses
Administrative Assistant (Part Time)	1	5000/-	(1) Graduate with experience in operation of personal computers and office related software packages	(1) Master's degree, experience in basic accounting and office administration	Assist the National Coordinator and the Project Management team in routine administrative chores, accounts and documentation work.

These positions are contractual and appointments will be initially given for one year, which are 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 22 September, 2019. Please visit our website www.nibmg.ac.in for further information. Only the shortlisted candidates will be called for Interview/Test. No TA/DA will be provided for attending the Interview/Test.

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.