

## NATIONAL INSTITUTE OF BIOMEDICAL GENOMICS

*(An Autonomous Institution of the Government of India)*



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Advertisement No. 442

Date: 10.03.2017

NIBMG is looking for motivated and bright individuals interested to explore career opportunities in exciting research projects of the Institute in positions as below. These positions are contractual and appointments will be initially given for one year, which are extendable depending upon performance and requirements of the project. Applicants should **email their application as per enclosed format (<http://www.nibmg.ac.in/?q=notices>)** clearly mentioning the name of position in the subject of the email to **[project\\_appln@nibmg.ac.in](mailto:project_appln@nibmg.ac.in)** no later than by **5:00 pm on 30 April 2017**. Shortlisted applicants will be called for interview by **email only**. No correspondence will be made with applicants who are not shortlisted/called for interview. **No TA/DA will be paid for appearing in the interview.**

## **Each applicant can apply for only one position**

### **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 centered 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.

### **International Cancer Genome Consortium (ICGC) – India Project**

**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.

### **Population Science Study**

This Study is establishing large cohorts of individuals – with and without specific diseases – who are being followed up for tracking their life-styles, disease susceptibilities, responses to drugs, etc., with a view to understanding biological underpinnings of predisposition, resistance, response, etc. The Study involves collection of data by using questionnaires, biospecimen collection, laboratory analyses of biospecimens and analyses of data.

#	Name of Position (No. of position required)	Nature of Position	Consolidated Retainer Fee [INR] Per Month	Essential Qualifications	Desirable Qualifications	Nature of Duty
1	Project Manager (1)	Contractual [Initial appointment for 1 year]	Minimum 100,000/- (Commensurate with qualifications and experience)	(1) Post-graduate in any discipline relevant to large scale population projects	(2) Previous track record of management of large projects	(1) Management of large scale projects (2) Advise and assist Principal Investigators on research funding opportunities and applications
2	Experimental Laboratory Manager (2)	Contractual [Initial appointment for 1 year]	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) Past 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
3	Computational Laboratory Manager (1)	Contractual [Initial appointment for 1 year]	60,000/- to 80,000/-	(1) PhD in Statistics or related discipline, (2) Minimum 5 years of experience of working in large statistical projects/consultancy, (3) Past experience in management of computational laboratory (4) 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 (4) Two years' experience in management of a service laboratory	(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
4	Database Manager (1)	Contractual [Initial appointment for 1 year]	60,000/- to 80,000/-	(1) B.Tech/M. Tech/MCA degree or equivalent in computer science or a related discipline, (2) Proven track record of experience in management of large relational databases and relevant programming/scripting languages	(1) Experience in high performance cluster computing	(1) Operations and management of all database, software, server and systems

5	Technical Specialist Tier-2 (4)	Contractual [Initial appointment for 1 year]	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 biospecimens e.g. FFPE tissue	Hands-on massively parallel sequencing, microarray laboratory work and instrument operations as well as other related laboratory activities
6	Technical Specialist (2)	Contractual [Initial appointment for 1 year]	18,000/- to 25,000/-	(1)MSc or equivalent (or BSc with 3 years laboratory experience) in Genetics/Life Sciences/Biochemistry/related discipline; (2) Minimum 2 years 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
7	Data Analyst - Tier-2 (4)	Contractual [Initial appointment for 1 year]	25,000/- to 40,000/-	(1) First Class B.Tech/M. Tech degree or equivalent in computer science / Bioinformatics or a related discipline (2) Minimum 2 years of experience in analysis of massively parallel DNA sequencing data	(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
8	Data Analyst (2)	Contractual [Initial appointment for 1 year]	18,000/- to 25,000/-	(1)M.Tech, MSc or equivalent in Computer Science/Computer Applications/ Bioinformatics or a related discipline (2)Proficiency in programming in C/C++ or python (3) Prior experience in high-throughput data (NGS) handling.	(1)Handling of software packages and databases (2)Experience in handling DNA sequence/genotyping data	QA/QC and analysis of raw sequence data generated by massively parallel DNA sequencing platforms, programming, design and operation of massively parallel DNA sequencing data analysis pipelines
9	Administrative Coordinator (1)	Contractual [Initial appointment for 1 year]	30,000/- to 40,000/-	(1) MSc or equivalent in Life Sciences or related subject	(1) Good written and oral communications skills (2) Experience in procurement of laboratory reagents (3) Masters in Business	(1) Administrative management of facilities, (2) Procurement and handling of shipment

					Administration or equivalent	clearances of reagents (3) Documentation support (4) Coordination with collaborating organizations
10	Financial Coordinator (1)	Contractual [Initial appointment for 1 year]	30,000/- to 40,000/-	(1) M.Com with 5 years' work experience (or B.Com with 10 years' work experience) (2) Experience in using financial packages e.g. Tally; (4) Thorough knowledge of GFR.	(1) Experience in SAP or equivalent packages (2) Good written and oral communications skills (3) Masters in Business Administration or equivalent	(1) Financial management of Cluster, (2) Coordination with Finance Personnel of collaborating organizations (3) Documentation support
11	Project Assistant (2)	Contractual [Initial appointment for 1 year]	25,000/-	(1) Graduate in science (2) Minimum 2 years' experience in research projects	(1) Masters in science	(1) Conduct and assist Principal Investigators in project related activities including technical, administrative and financial work
12	Phlebotomist (2)	Contractual [Initial appointment for 1 year]	20,000/-	(1) Diploma in Medical Laboratory Technology (2) Past experience in large scale population projects	(1) Experience in processing of biospecimens for DNA/RNA isolation	(1) Collection, processing and storage of biospecimens in population project