

## **Fellowship Programme in Molecular Genetics at Tata Medical Center**

Conceptualised in the year 2004 as a philanthropic initiative for the Eastern and North-Eastern parts of India and the neighbouring countries, the Tata Medical Center (TMC) started operations in Kolkata on May 16, 2011. The hospital is governed by a charitable trust – Tata Medical Centre Trust. It is an integrated Oncology facility with well-trained professional staff and equipped with modern facilities and the most contemporary medical equipment. Set up at a cost of Rs. 350 crores, the Hospital, with a capacity of 183 beds, serves all sections of the society, with 50% of the infrastructure earmarked for free or subsidized treatment for the underprivileged sections. The hospital is currently in an expansion mode. The hospital provides a wide spectrum of services from diagnosis, therapy to rehabilitation and palliative support in cancer. The Institution's objective is to excel in service, education and research.

To fulfil the above objectives TMC invites applications for the position of Fellow in Molecular Genetics

### **About the Department**

The Department of Molecular Genetics at the Tata Medical Centre, Kolkata is at Tata Medical Center handles close to 1500 molecular samples a year, which involves handling DNA and RNA samples from peripheral blood and formalin fixed paraffin embedded tissue. The laboratory aims to provide a timely, clinically relevant, and quality assured diagnostic test results in laboratory for in-patients, out-patients or other external clients for the laboratory at an affordable price. The department aims to provide an intellectually stimulating, safe, secure, educationally friendly work environment to its students, staffs and scientific officers, and would concentrate on continuous quality improvement, research and development.

This course is designed to provide a foundation in molecular genetics of haematological and pathological disorders. This course has 2 components. Basic concepts, principles will be covered in the lectures on basics in molecular genetics where as the in the second part would involve working on the bench for which the laboratory component focuses on techniques integral to development and understanding of new tests in molecular genetics. As the department is setting up NGS laboratory the fellow will be involved in standardization of the newer assays as well. The fellows spend the first year predominantly in training and a second research year in which they undertake a project under the supervision of a mentor.

### **OBJECTIVES:**

1. Broad knowledge of basic molecular biology and genetics
2. Application of DNA techniques in the diagnosis of inherited and acquired haematological disorders/Solid tumours
3. Ability to perform a variety of molecular diagnostic assays
4. An understanding of the heterogeneity, variability, and natural history of haematological disorders
5. Diagnostic and interpretive skills in a wide range of clinical molecular genetics

6. The ability to supervise and direct the operations of a clinical molecular diagnostic laboratory
7. Technical experience and knowledge in quality control and quality assurance procedures
8. Ability to develop hypothesis and develop experiments in a research project

### **Fellowship Duration:**

The fellowship will be of two year duration. The fellows spend the first year predominantly in training and a second research year in which they undertake a project under the supervision of a mentor.

### **Eligibility Criteria**

#### **Essential:**

The fellowship is open to individuals with any M.D. or equivalent degree.

#### **Desirable:**

M.D (Pathology) or D.N.B.( Pathology )

Candidates with an academic and research bent of mind would be preferred. Candidates having posters / publications at national / international meetings will be given preference.

#### **Evaluation Process:**

Evaluation during intra-departmental meetings / conferences and monthly inter-departmental conferences / CGRs will be made. He will maintain log-book, which will be evaluated periodically (fortnightly / monthly). He/she needs to undergo quarterly written / oral / practical examinations. A final written / oral / practical examination will be conducted prior to his / her completion of fellowship.

In addition the institution / university guidelines will also be followed during the fellowship, as and when the centre gets an affiliation from the University.

#### **You may Email or Post applications to:**

Mr. Suvasish Mukherjee, Head-Human Resources, Tata Medical Center, 14 MAR (EW), New Town, Kolkata – 700156. Email – [suvashish.mukherjee@tmckolkata.com](mailto:suvashish.mukherjee@tmckolkata.com). For informal queries about the job you may get in touch with the individual consultants in the various specialties, the details are there on our website.