**Position: Bioinformatician (Clinical Proteomics Unit)**

## Last date of Application: 30/5/2023

**Appointing Organisation**

Tata Translational Cancer Research Centre
Tata Medical Center, Kolkata

**The Tata Medical Center and the Tata Translational Cancer Research Centre**

The Tata Medical Center (TMC) is a multispecialty institution for tertiary cancer care based in New Town, Kolkata. At TMC, clinical and research activities are integrated to provide state-of-the-art care for patients with cancer. This integration is enabled by the Tata Translational Cancer Research Centre (TTCRC), the research arm of TMC. TTCRC is within a dedicated academic space and spread over 3 floors. At TTCRC, a multidisciplinary team of clinicians, scientists, academics and industry professionals collaborate to develop a systems medicine approach in cancer research. This approach is focussed on developing innovative, indigenous, cost-effective and equitable strategies to improve cancer diagnosis; develop treatments that match disease characteristics and are adapted to treatment response; and, identify prognostic and predictive disease biomarkers. These strategies are multi-dimensional and involve an iterative pathway that include clinical studies, high-throughput laboratory investigations, computational strategies to integrate, analyse and model data, hypothesis-based pre-clinical studies and evidence-based translation of findings to clinical practice.

**The opportunity at TTCRC Clinical Proteomics Unit**

We are looking for a talented bioinformatician or a computational biologist with excellent omics data analysis skills to join our proteomics group. In this position you will work as part of the proteomics team at TTCRC. Currently the facility is equipped with Sciex TripleTOF 6600 Mass spectrometer with Eksigent 425 Nano Liquid Chromatography system. The proteomics group focuses mainly on two aspects, first, developing plasma/serum proteomics and biomarker discovery platform. Second we provide proteomics solutions to other in-house clinical research teams. Your primary responsibility will be to analyse high throughput proteomics data generated and as well as developing new robust pipelines for analysis and data visualization. This involves working closely with the hospital's multidisciplinary in-house clinical team and researchers as well as collaborators. Your duty also includes to ensure secure data storage and manage data transfer between the stakeholders.

**Minimum required qualifications/experience**

(a) MSc/M.Tech with few years of experience or PhD in Bioinformatics/Computational Biology/Computer science
(b) Must have knowledge of coding in Python/R and shell scripting to atleast intermediate level.
(c) Prior experience in handling Proteome data, RNA-seq analysis, Genome analysis is preferred
(d) Knowledge of molecular biology and protein biology.
(e) Prior experience in multi-omics data analysis is an advantage.

**Desired experience**

(a) Knowledge of Programming languages like Java, Python, R along with Shell scripting.
(b) Knowledge in machine learning and application development.
(b) High throughput computing.
(c) Independent project management.
(e) Team player

We are looking for a highly motivated candidate preferably with a strong background in the proteomics, bioinformatics, and computational biology. An excellent command of English is preferred. As part of our team, you will lead the development and application of pipelines for data analysis and data visualization. Successful candidates can start in the group as soon as possible.

**Appointment and reporting**

Appointment to the position will initially be for 3 (three) years. The first year is probationary. Confirmation in the position and progression to years 2 and 3 is subject to satisfactory review of performance through periodic appraisals of performance. The successful applicant will be managed by the lead scientist in Proteomics and will report to the Proteomics Lead.

**Enquiries**

(a) For further details on TMC and TTCRC, visit www.tmckolkata.com
(b) Submission of applications by e-mail to:
Dr. Asama Mukherjee, Admin Head and Lab Manager, Tata Translational Cancer Research Centre, Tata Medical Centre, Arterial Road (East-West); Newtown, Rajarhat; Kolkata 700 160.
E-mail: asama.mukherjee@ttcrc.tmckolkata.org & Mr Suvasish Mukherjee; Head, Human Resources; Tata Medical Center; 14 Major Arterial Road (East-West); Newtown, Rajarhat; Kolkata 700 160
e-mail: suvashish.mukherjee@tmckolkata.com
(c) For informal enquiries,
1) Dr. Trina Dutta, Post-Doctoral Fellow, Clinical Proteomics Unit, TTCRC-TMC.
E-mail: trina.dutta@ttcrc.tmckolkata.org
(d) Submission of applications by post or by e-mail to: