## Application for the position of Bioinformatician at TTCRC (Tata Medical Center)

**Post: Post-Doctoral Fellow in Bioinformatics at TTCRC**

**Last Date of Application: 29/2/2020**

The Tata Medical Center (TMC) is a not-for-profit dedicated cancer hospital based in the New Town development in Kolkata. Currently it has 437 beds. It is one of its kind in eastern India. The Tata Translational Cancer Research Centre (TTCRC) is a research institute set up within TMC. TTCRC is creating a stimulating environment where clinicians, scientists and industry can work together to develop indigenous solutions for patients with cancer in India. As a new institute, the structure offers the unique opportunity for talented individuals to become leaders in the field of translational medicine within a relatively short span of time. TTCRC has state of art laboratories within the hospital premises with access to a dedicated biorepository.

**The Post**

The post holder is expected to perform high-throughput data analyses sing state of the art bioinformatics tools and software's on data generated from the in-house Next-Generation Sequencing and Mass Spectrometry Facilities. The candidate of integrating different modules /scripts of software's to build automated analysis pipelines for genomics proteomics and cell biology scientists and researchers in the Institute. We will expect the candidate to customise existing application to meet scientific project needs. The candidate should be able to handle large molecular datasets such as microarray data, genomics sequence data, RNA-seq data, proteomics and phospho-proteomics data and integrate these data sets for clinical and translational research purposes. He/she may also require to develop programmatic interface for searching or querying databases, filtering of results, identifying genes of interest. The post holder will be encouraged to collaborate with the clinicians, researchers and software developers to provide development and modification of commercial bioinformatics software, statistical and computational tools for translational research activities. The person needs to train the technicians and information technology staff applying bioinformatics tools or applications in areas such as proteomics, transcriptomic, metabolomics, and clinical bioinformatics.

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**Team Work and Supervision**

The post holder will work within a team that includes both scientists and clinicians. Parallel appointments are being made in genomics, proteomics and cell biology fields and we expect him/her to work closely with these individuals. TTCRC works on a modular system with each focus group working independently. Team leaders will be appointed once the structure is place, but the post holder will report to the Director in the interim period.

**What are we looking for?**

- An energetic, self-motivated and enthusiastic individual capable of managing high throughput genomics workflow at TTCRC for developing a pipeline for advanced patient care / An energetic, enthusiastic individual capable of performing wet lab experiment, analysing and presenting data
- Understanding the data acquisition in mass spectrometry
- Creating bioinformatics pipelines and use computational tools to extract actionable information from high-throughput-sequencing and proteomics datasets.
- Knowledge in pathway and network analysis.
- Understanding of data capture through high-content screening microscopes and its analysis.
- Integration of data acquired from different high-throughput proteomics data.
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An excellent team player capable of working at the interface of biologists and clinicians

A vision for the future and a commitment to building are source that will benefit patients with cancer in India.

| Job related knowledge/ aptitude, skills, | Requirements | Essential / desirable | How identified |
|---|---|---|---|
| **1. Disposition / Attitude** | a. Flexible<br>b. Self-motivated c. Hardworking<br>d. Willing to learn new skills<br>e. Work as part of a | a. Essential<br>b. Essential<br>c. Essential<br>d. Essential<br>e. Essential | Application form CV Profile Interview References |
| **2. Education / Qualifications** | a. Bachelors degree<br>b. Masters degree<br>c. PhD degree in Bioinformatics | a. Essential<br>b. Essential<br>c. Essential | Certificates Application form CV |
| **3. Special Knowledge and Ability** | a. Ability to work independently within an agreed framework<br>b. Willingness to learn new experimental techniques<br>c. Ability to organise and prioritise own work d. Good communication skills<br>e. Ability to maintain good laboratory records<br>f. Computer literacy (Word, Excel, | a. Essential<br>b. Essential<br>c. Essential<br>d. Essential<br>e. Essential<br>f. Essential | Application form CV Interview References |

**You may apply on line or E-mail or post applications to:**
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