

Position: Senior Research Assistant/Postdoctoral Fellow.

Last Date of application: 31st December 2021

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. For additional information on work at TTCRC, visit <https://tinyurl.com/TTCRC-systems-medicine> and <https://tinyurl.com/TTCRC-childhood-ALL>.

The Position

In this position, you will work as part of the Minimal Residual Disease (MRD) monitoring group at TTCRC. The group works directly with the Department of Cytogenetics & Genomics at Tata Medical Center and has close links with Tata Consultancy Services Life Sciences Division. There are ongoing national and international collaborative studies. It has a dedicated laboratory facility equipped with Illumina, Sanger and Nanopore sequencers and is an internationally accredited centre for the minimal residual disease detection in childhood ALL. A dedicated informatics supports data analyses. This group is focussed on monitoring MRD for childhood ALL patients using both PCR and high-throughput technologies. Your primary responsibility will be to continue the existing workflow, and to further optimize the high-throughput platform that includes hands-on experiments and data analysis. This will involve working closely with the hospital's multidisciplinary clinical service, the biorepository unit and with colleagues in the ALL cancer biology group. The post holder will have a designated desk and computer.

Qualifications and experience requirement

- (a) MSc in Biological Sciences with at least 3-4 years of experience (**or a fresh PhD**) in Molecular Biology and Genomics
- (b) Expertise in DNA, RNA extraction, qPCR, Sanger Sequencing, NGS (desirable)
- (c) Other skills: MS Office, Data management, Data analysis tools (PRISM)

Necessary qualities

- (a) Integrity, motivation, enthusiasm
- (b) Focus and commitment in carrying out tasks and duties
- (c) Critical analytical and problem-solving skills, capable of independent work
- (d) Ability to work effectively as part of a multidisciplinary team
- (e) Mentoring junior members and visiting interns of the team

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 year 2 and 3 will be subjected to satisfactory review of performance through periodic appraisals. Appraisals will also determine salary increments and promotions. The consolidated monthly salary would be commensurate with qualifications and experience. The successful applicant will be managed by the team lead and will report to the Director TTCRC.

Enquiries

- (a) For further details on TMC and TTCRC, visit www.tmckolkata.com
- (b) Submission of applications by post or by e-mail to:
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,
Ms Sukanya Guha (sukanya.guha@ttcrc.tmckolkata.org)

Knowledge/ Aptitude/Skills,	Requirements	Essential / desirable	Information from
1. Disposition / Attitude	<ul style="list-style-type: none"> a. Integrity b. Flexibility c. Motivated d. Committed e. Willing to learn new skills f. Works as part of a team g. Receptive to new ideas h. Capable of independent work & to an agreed plan i. Good time management j. Organized, able to prioritize responsibilities 	<ul style="list-style-type: none"> a. Essential b. Essential c. Essential d. Essential e. Essential f. Essential g. Essential h. Essential i. Essential 	<ul style="list-style-type: none"> Application form CV Profile Interview References

	k. Works to high technical and quality standards		
2. Education / Qualifications	MSc in Biological Sciences with 3-4 year of experience OR Fresh PhD	Essential Desirable	Interview Application form CV
3. Experience	a. Good laboratory practice b. DNA and RNA technology c. Library preparation for sequencing d. MS Office, Data management, Data analysis tools (PRISM)	a. Essential b. Essential c. Desirable d. Essential	Application form CV Interview & References
4. Skills and ability	a. Critical thinking b. Problem solving skills c. Readiness to evaluate, develop and test new approaches and strategies	a. Essential b. Essential c. Essential	Application form CV Interview References

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