Valid Till : 20/3/2026

Position Research Assistant/Senior Research Assistant in Organoid Laboratory (SOLi3D group) at TTCRRC

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 located in New Town, Kolkata. Tata Translational Cancer Research Centre (TTCRC), the research arm of TMC, is within a dedicated academic building in the same campus. At TTCRC, a multidisciplinary team of clinicians, scientists 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 check out the following websites:

Organoid Laboratory (SOLi3D group) at TTCRC: https://www.ttcrc.org/soli3d.html
TTCRC website: https://www.ttcrc.org/
TMC Kolkata website: www.tmckolkata.com

The Positions and reporting

Candidate's primary responsibility will be to continue, optimise and extend ongoing work on developing, establishing, maintaining and characterizing tumour organoid cultures from patient tissue samples. The techniques will include but not limited to clinical sample processing, organoid culture, high throughput confocal microscopic imaging, extractions of biomolecules (DNA, RNA, Protein) and quality checks, sample preparation for histological analysis, NGS and protein mass spectrometry, drug response testing and other cell biology assays as needed. This will involve working closely with the colleagues from SOLi3D team, hospital's multidisciplinary clinical teams, the biorepository unit and other colleagues from different groups at TTCRC. The candidates will need to plan and perform hands-on experiments, record and analyse data, participate and present data/papers in regular group meetings, national conferences and prepare scientific reports and manuscripts. Each of the post holders will have a designated desk and computer. The appointed candidates will report to the team lead of SOLi3D group.

Minimum required qualifications/experience

Position	Educational qualification	Relevant experience
Research Assistant level I/II	MSc/MTech in any stream of Life Sciences, Biotechnology, Cell & Molecular Biology, Biochemistry and Pharmacology	Minimum 1 yr

Description of 'Relevant experience':

(A) Essential:
- (i) Extensive experience in mammalian cell culture techniques;
- (ii) Familiarity with DNA, RNA and protein extraction techniques, quality check, qRT-PCR and Western Blot
- (iii) Familiarity with good laboratory practices

(B) Preferable but not essential:
- (i) Experience with patient samples handling
- (ii) Experience with 3D (spheroid/organoid/organ-on-chip) cell culture models
- (iii) Experience in high throughput drug screening assays
- (iv) Experience in automated high throughput confocal imaging
- (v) Experience in hydrogel bioprinting
- (vi) Experience in automated liquid handler/digital dispenser use
- (vii) Knowledge of LIMS (e.g., LabVantage) use for biobanking clinical samples
- (viii) Knowledge of advanced MS Excel, R programming, Image analysis software

Necessary qualities

(a) Strong integrity, motivation, enthusiasm
(b) Focus and commitment in carrying out tasks and duties
(c) Flexibility of working hours as needed for research involving patient samples
(d) Critical analytical and problem-solving skills, capable of independent work
(e) Ability to work effectively as part of a multidisciplinary collaborative team
(f) Strong written and oral communication
(g) Scientifically interactive with clarity of thoughts and expression

Selection of candidate: Only shortlisted candidates will be called for an interview. Based on their interview performance, the recruiting panel will select the successful candidates.

Appointment nature and tenure: The position is sanctioned regular positions of the institute, funded by an intramural core grant to TTCRC by Tata Medical Center Trust. However,

appointment of the successful candidate to the position will initially be for 1 year. Further renewal of contract is subject to satisfactory performance assessed through periodic appraisals.

Retainership:
Research Assistant level I/II: INR 25,000- 28,000 per month, consolidated.
No HRA will be provided. Health insurance will be covered as per institute policy.
The organization keeps right to change the above amounts/benefits at any point of time. The actual retainership amount of the candidate will be according to the payment scale guideline for the respective position at TTCRC and commensurate to the candidate's relevant experience for the role and interview performance.

Application procedure

Application should be submitted by email to the following in addition to online application through the TMC website. In the email, please attach your resume along with a 150-word statement of purpose mentioning why you would like to join the SOLi3D group at TTCRC and why you think you are a good fit for the position.

1. 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

Copy the email to

2. Mr Satadru Dey, Administrative Assistant, TTCRC: satadru.dey@ttcrc.tmckolkata.org
3. Dr Dwijit GuhaSarkar, Lead Scientist-Organoid Laboratory, TTCRC: dwijit.guhasarkar@ttcrc.tmckolkata.org

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