

Job Opportunity: Associate Professor (Junior Associate Professor) in Department of Computational and Systems Biology

Medical Research Institute (MRI) of Tokyo Medical and Dental University (TMDU) invites applications for a faculty position (Associate Professor or Junior Associate Professor) in the field of Computational and Systems Biology.

1. Position

Associate Professor or Junior Associate Professor

2. Areas of Research

Department of Computational and Systems Biology develops mathematical models and information analysis methods based on the state-of-the-art data science and artificial intelligence (AI) methods to understand complex biological phenomena from various biological data, including molecular-level information on genomes and transcriptomes, and image data obtained from biological imaging. Our research aims to identify ultra-early disease markers, accurately predict drug efficacy and disease recurrence, discover innovative molecular-targeted drugs, and elucidate the molecular mechanisms of diseases. This position is open to researchers who have the following skills and experiences, and who will develop and implement their own research plans.

- (1) Applicants must have experience in analyzing single-cell omics data, such as single-cell RNA-seq data and single-cell ATAC-seq data.
- (2) Applicants must have experience in analyzing protein structures using molecular dynamics and molecular orbital theory.
- (3) Applicants must have experience in developing biological data analysis methods using Bayesian statistics and deep learning.
- (4) Applicants must have sufficient experience in postgraduate research and education supervision.

3. Terms and Conditions of Employment

The contract of Full-time position will start from April 1, 2023 and will not exceed five years period, renewable based on an evaluation according to the rules and regulations of TMDU once.

Salary will be determined by the annual salary system outlined by TMDU regulations.

Female applicants are strongly encouraged to apply for this position, as TMDU promotes gender-equality work environment. We provide career support programs for all staff that enable them to balance work and life, such as childbirth and child rearing.

Status of measures to prevent second-hand smoke : No smoking on the premises

4. Application Forms

- (1) Resume (Curriculum Vitae, etc.) (free form).

- (2) List of publications (free form).
- (3) Reprints of representative publications (up to 3 papers, photocopies acceptable).
- (4) Summary of the representative publications (100 words each).
- (5) List of research grants and patents (free form).
- (6) Summary of previous research contributions and future research and education plans (in 500 words).
- (7) A list of other achievements (Awards etc).

5. Work Location

Medical Research Institute, Tokyo Medical and Dental University
1-5-45 Yushima, Bunkyo-ku, Tokyo 113 - 8510, JAPAN

6. Deadline

February 15, 2023, Japan Standard Time.

7. Inquiry

Administration Office, Medical Research Institute, Tokyo Medical and Dental University

E-Mail: pr.mri.adm@tmd.ac.jp

Tel: +81-3-5803-4504

8. How to Apply

All the application documents must be sent to Administration Office. To apply, please enter the following [E-mail contents] at pr.mri.adm@tmd.ac.jp

Please contact us by E-mail by February 14, 2023 (Tuesday).

We will send the URL and manual for submission to the university to the "destination email address".

[E-mail contents]

- Subject: "Application for the Associate Professor or Junior Associate Professor position in the Computational and Systems Biology "
- Full name
- Destination email address

All information will be treated with the strictest confidentiality in accordance with pertinent laws and rules.