

Seeking Specially Appointed Assistant Professor (CREST)

Department of Medical Science Mathematics,
Medical Research Institute,
Tokyo Medical and Dental University

Overview of Laboratory:

Our laboratory is developing new mathematical/computer science methodologies and applying them to real omics data, in particular, clarifying the relationship between an individuals' omics data with their disease susceptibility and drug response, drug efficacy, dose requirements and adverse reactions. Also, we conduct research on next generation methodologies, e.g. integrating various omics and molecular datasets to clarify trans-omics relationships. Such research will identify disease-related genes for new drug targets, and establish personalized and/or precision medicine.

An available Position:

One opening for a Research Scientist and/or Postdoctoral Researcher

Job descriptions:

Under the leadership of the supervisor, carry out research in:

1. Development of mathematical/algorithmic methodologies for exploring etiologies, sub-classification, and risk prediction of diseases.
2. Application of the methodologies to real data for the advancement of personalized and precision medicine.

Project Name: "Exploring etiologies, sub-classification, and risk prediction of diseases based on big-data analysis of clinical and whole omics data in medicine" (CREST)

* This work is supported by "Strategic Basic Research Programs" (JST).

Qualifications:

Applicants must have a Ph.D. in a field related to those described in the overview. Research experience in proposing new statistical/computational science methodologies, or research experience in the application of such methodologies to disease analysis. Well versed in UNIX/Linux OS, and well experienced in scientific programming using script or C-like

languages along with the ability to code in them. Preferably, research experience in large-scale genomic data analysis.

Work Location:

Department of Medical Science Mathematics, Medical Research Institute, Tokyo Medical and Dental University.

1-5-45 Yushima, Bunkyo-ku, Tokyo 113-8510, Japan.

Terms of contract:

Full-time position with a contract renewable at the end of a fiscal year (31th March).

TMDU may renew the contract annually when both parties agree to the conditions.

A new contract will not be entered into after March 31, 2020.

Salary:

Annual salary system.

Salary will be commensurate with TMDU's guideline.

Working Hours:

Week days. Basically from 8:30 to 17:15, although flexible at researcher's discretion.

Required Documents:

- CV (include photograph, current affiliation, job title, date of birth, academic credentials, current address, contact information (telephone number and email address), research experience and work experience).
- List of publications and patents.
- Overview of past researches, how they connect to the future works, and future perspective (approximately two pages of A4-sized paper).
- List of two reference persons: names, affiliations, positions, and email addresses.

Start of Employment:

Earliest date possible (negotiable).

Screening Process:

Applicants who pass the initial document screening will be invited for an interview.

Contact:

Please send the documents as PDF files to the email address indicated below.

In the Subject line, write “Application Documents TMDU - Department of Medical Science Mathematics (CREST) - (Postdoc/researcher)”.

Professor Tsunoda, Department of Medical Science Mathematics, Medical Research Institute,
Tokyo Medical and Dental University

Email: tsunoda.mesm@mri.tmd.ac.jp