

The Institute of Statistical Mathematics, Research Organization of Information and Systems

Data Science Center for Creative Design and Manufacturing

Call for Researchers on Materials Informatics

Outline

We are developing the world's largest database of polymer properties in collaboration with several universities and companies, using automated all-atom classical molecular dynamics simulation systems. We are currently recruiting one researcher with expertise in materials science, data science, or computational chemistry (molecular simulation). The maximum term of appointment is five years.

Research subjects

1. Research on materials informatics for polymeric materials (required skills: materials science or machine learning)
2. Development of algorithms that combine machine learning and molecular simulation (required skills: molecular dynamics simulation or machine learning)
3. Development of algorithms and software for automated calculation of polymer properties (required skills: molecular dynamics simulation and programming)

On April 1, 2024, we will start the new research project about the bio-based polymers such as polypeptides.

This project aims at open science and open innovation of biodegradable and bioadaptive polymers. A variety of researchers from academia in the fields of materials science, data science, and computational chemistry will participate in the project to promote interdisciplinary research. This project will conduct research on materials informatics of bio-based polymers and on the fusion analysis of molecular simulation and machine learning.

Position available

1 position for postdoctoral researcher (job title: Project Assistant Professor or Project Associate Professor, depending on qualification)

Working place

The Institute of Statistical Mathematics (ISM)

Research Organization of Information and Systems

https://www.ism.ac.jp/index_e.html

Data Science Center for Creative Design and Manufacturing

<https://monozukuri.ism.ac.jp/en/>

Working conditions and contract period

Full-time (nontenured)

Fixed term employee. The initial contract is for 1 fiscal year, but it can be renewed for a second fiscal year or later depending on performance evaluation and financial condition. Salary will be competitive in accordance with ISM's bylaws, with consideration of the academic qualifications and demonstrated research skills of the candidate.

Closing date

January 31, 2024

Application procedure

In the application, please include application materials listed below and we will handle them carefully based on the strict rules in our institute to protect your private information. Personal information received during the recruiting process will be used only for recruitment screening and appointment procedures, and not for any other purposes.

Selection method

Candidates will be selected based on submitted application materials and a possible follow up interview.

Application materials

- (1) Curriculum vitae
- (2) List of publications
- (3) Statement of past researches and research plan (maximum 2 pages)
- (4) Names and contact addresses (email) of two references (recommendation letters may be required to propose in later)

Please send applications by email with the subject “Application to a researcher position at ISM”.

Contact

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When you send e-mail please change (at) for (@).

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