

March 8, 2022

**Earthquake Research Institute, The University of Tokyo
Recruitment Information for Project Researcher (Fixed-Term Project Staff)**

Earthquake Research Institute, The University of Tokyo is seeking project researchers who promote the project entitled “Synergy effect Through Human and Artificial Intelligence Towards New Era in Seismology” (SYNTHA-Seis, Principal Investigator: Hiromichi Nagao), which is one of projects of “Seismology Toward Research Innovation with Data of Earthquake” (STAR-E Project) promoted by Ministry of Education Culture, Sports, Science and Technology, Japan.

1. Title and Hiring Numbers: Project Researcher, 2 persons.
2. Term of Employment: From the start date of employment to March 31, 2023.
(The start date of employment is negotiable, but after June 1, 2022)
3. Renewal of Contract: Your employment agreement may be renewed. In the event of renewal, your employment agreement will be renewed every 1 year. Renewal of your employment agreement will be determined by the following factors: All relevant factors, such as budget status, progress of the work assigned to you, the amount of the work at the end of the term, your performance, work record, and attitude, and/or your medical conditions. The number of renewals can be three times. The period of employment is limited March 31, 2026.
4. Probation Period: 6 months from the date of employment
5. Place of Work: Earthquake Research Institute, The University of Tokyo
(1-1-1, Yayoi, Bunkyo-ku, Tokyo)
6. Affiliation: Division or research center you belong to will be decided after the notification of hiring.
7. Research Area: State-of-the-Art Information Seismology
8. Contents of Work Duties: This project, scoping “Interaction Between Artificial Intelligence and Human Intelligence in Seismology”, dedicates to apply the state-of-the-art information science to seismological issues, aiming to deepen data analysis methods for earthquakes/low-frequency tremors and the modeling techniques in seismology, through collaborations between the seismologists at Earthquake Research Institute, The University of Tokyo, the information scientists and statisticians at Graduate School of Engineering Science, Osaka University. Successful applicants are obliged to integration of information science and seismology through collaboration with seismologists and information scientists, such as machine learning to detect earthquakes/low-frequency tremors from big seismic waveform data (digital data and image data) and their applications to real observational data, underground structure modeling based

on information science techniques such as machine learning, Bayesian statistics and data assimilation, or deepening of simulations related to seismology through integration of artificial intelligence and physical models.

9. Working Hours: Discretionary work system for professional work applies and working hours will be deemed as 7 hours and 45 minutes per day.
10. Days off: Saturdays, Sundays, Holidays, and the year-end and New Year holidays (December 29 to January 3).
11. Leave: Annual Paid Leave, Special Leave, etc.
12. Wages, etc.: Annual Salary System applies and monthly paid salary will be around JPY 400,000 to JPY 500,000 including performance / achievement allowance. (The salary will be decided taking your qualifications, capacity, experience etc. into account.)
Commuting Allowance (basically up to JPY 55,000 per month).
13. Insurance: You will be automatically enrolled in the insurance from the Mutual Aid Association of MEXT (Ministry of Education, Culture, Sports, Science and Technology) and Employment Insurance.
14. Qualification Requirements: 1) Ph.D. or doctoral degree, including those who are expected to earn these degrees or possess equivalent abilities.
2) Publications in seismology, information science, statistics, or applied mathematics.
3) Motivation to develop methods for data analyses or physical simulations related to earthquakes and deep low-frequency tremors. Having experience in seismic waveform analyses is not mandatory.
15. Documents to be Submitted: 1) The University of Tokyo Standard Resume (Download the resume form from the website below. E-mail address is required.)
<https://www.u-tokyo.ac.jp/en/about/jobs.html>
2) Publication list
Describe “peer-reviewed” or “non-peer-reviewed” for each paper, and include research budgets and prizes you were awarded.
3) PDF files of main papers within three
4) Outline of your researches so far (approx. 2 pages)
5) Research plan after the hiring (approx. 2 pages)
6) Names and contacting information of two researchers who can comment about you
7) Preferred start date of employment (Note that three or four months are generally required from the start of document screening to the start of employment.)
16. Deadline of Application: July 29 (Friday), 2022, 5 p.m. (Japan Standard Time, UTC+9)
This open call will close even before the deadline if a successful applicant is decided.

17. Procedure for Selection: Document screening and interview. Details of the interview will be informed to applicants who have passed the document screening.
18. Submission of Documents: Upload the above documents to the specified submission site. Request the URL of the submission site to Personnel Affairs Section via e-mail below, describing “Application for STAR-E Researcher” in the subject. Upload the documents by the deadline of application through the URL Personnel Affairs Section will inform. Submission using e-mail attachment is not allowed.
- Personnel Affairs Section
Earthquake Research Institute, The University of Tokyo
E-mail: jinji%eri.u-tokyo.ac.jp (replace % with @)
Phone: +81-3-5841-8789
19. Contact: Hiromichi Nagao
Earthquake Research Institute, The University of Tokyo
E-mail: nagaoh%eri.u-tokyo.ac.jp (replace % with @)
Phone: +81-3-5841-1766
20. Name of Recruiter: The University of Tokyo
21. Miscellaneous: The acquired personal information will not be used for any purpose other than personal selection.
Women’s applications are highly welcome based on the “Declaration of Gender Equality Acceleration” at the University of Tokyo (March 3, 2009).
If you are personally in contract with foreign governmental bodies, corporations or universities, or you are in receipt of a large benefit (financial or any other form) from foreign governmental bodies during the period of your employment, the provisions of the Foreign Exchange and Foreign Trade Act (FEFTA) may prohibit or restrict the sharing of technology that are designated as controlled technology possibly making it difficult for you to fulfill your duties as an academic or administrative staff of the university as a result. Therefore, in such cases it is necessary to keep such contracts/benefits within the scope where it does not hinder the sharing of technologies necessary for your duties by the university.

* References

Synergy effect Through Human and Artificial Intelligence Towards New Era in Seismology (SYNTHA-Seis)
<https://www.eri.u-tokyo.ac.jp/project/SYNTHA-Seis/en/>