Date of Posting: Year [2026], Month [10], Day [6]

The University of Tokyo　Graduate School of Engineering

Faculty Position Announcement (Associate Professor)

Research Center for Planet Frontier Innovation (PFI Center)

Division of Infrastructure and Spatial Creation

The Graduate School of Engineering at The University of Tokyo invites applications for one full-time Associate Professor position in the Division of Infrastructure and Spatial Creation at the newly scheduled **Research Center for Planet Frontier Innovation (PFI Center)**, set to be established on October 1, 2026.

The Center serves as a new research and educational hub that comprehensively views both unexplored frontiers (such as the deep sea and the lunar surface) and internal urban infrastructure/deep underground spaces subject to aging as "extreme environments" requiring advanced measurement, analysis, and materials technologies. It integrates non-destructive imaging technology, data science, numerical analysis, and innovative materials as a common foundation to advance research and education.

The Division of Infrastructure and Spatial Creation is responsible for extending the service life and enhancing the maintenance management of urban infrastructure and building stocks in a mature society, as well as realizing new urban infrastructure and building stocks. We look forward to receiving applications from highly motivated candidates.

Employer

National University Corporation The University of Tokyo

1. Position and Number of Openings

Associate Professor, 1 position (Full-time)

2. Affiliation

Division of Infrastructure and Spatial Creation, Research Center for Planet Frontier Innovation, Graduate School of Engineering, The University of Tokyo

(It is expected that the successful candidate will hold a concurrent position with the Institute of Engineering Innovation, Graduate School of Engineering, and a concurrent appointment in the Department of Architecture. Details will be finalized through consultation upon appointment.)

3. Field of Specialization

Fields related to the advanced maintenance and management of urban infrastructure/building stock and the realization of new buildings, centered on soft matter and construction materials. Specifically, we seek candidates with strengths in one or more of the following areas:

- Development, physical property evaluation, degradation mechanism elucidation, and degradation control of soft matter, organic materials, and organic–inorganic hybrid materials.
- Evaluation of material performance using multiscale numerical analysis methods, from atomic scale to actual material scale.
- Database construction related to the above, utilization/application of AI-based evaluation systems, design, maintenance, preservation, and management of building envelopes, and digital twins.

Note: The Center also includes the Division of Frontier Resources and Energy, which focuses on resource and energy utilization in unexplored frontiers. We expect candidates who will share technological foundations in measurement, analysis, and materials with this division and actively engage in cross-divisional collaboration and joint research.

4. Job Responsibilities

・ Promoting cutting-edge research in the above fields of specialization and securing external research funding.

・ Conducting education in undergraduate and graduate programs, and providing research supervision for graduate students (including doctoral candidates).

**Note: For undergraduate education, the candidate must be capable of conducting lectures in Japanese within three years of appointment.*

・ Administrative management of the Center and the Division of Infrastructure and Spatial Creation, as well as promoting industry-academia-government and international collaboration.

・ Conducting collaborative research with industry, national research institutes, government agencies, and overseas universities/research institutions, and facilitating the social implementation of research outcomes.

[Scope of Change] The employee may be ordered to transfer, hold concurrent appointments, or be seconded. *(In principle, such orders will not be issued against the employee's will. For details, refer to Article 4 of the Employment Regulations for Academic Staff of The University of Tokyo.)*

5. Qualifications

・ Holding a Ph.D. or doctoral degree (or expecting to obtain one prior to the start date of appointment).

・ Outstanding research achievements in the aforementioned fields of specialization and active international engagement.

・ High motivation and demonstrated capability in graduate education and student guidance/mentorship.

- Proven track record or clear motivation regarding industry-academia collaboration, social implementation, and obtaining competitive external funding.
- Ability to collaborate across disciplines and international partnerships to contribute to the growth and development of the Center.

  Proficiency in conducting education, research supervision, and administrative duties in either Japanese or English *(equal ability to teach in both Japanese and English is highly desirable).*
  **Note: For undergraduate education, the candidate must be capable of conducting lectures in Japanese within three years of appointment.*

6. Starting Date of Employment

April 1, 2027, or as soon as possible thereafter (negotiable).

7. Term of Employment and Terms/Conditions

- **Term of Employment:** Full-time (Tenured / Permanent position; subject to mandatory retirement age according to the regulations of National University Corporation The University of Tokyo).
- **Probationary Period:** 6 months from the date of employment.
- **Salary and Working Conditions:** Subject to the relevant regulations of National University Corporation The University of Tokyo.
- **Working Hours:** Discretionary Labor System for Professional Work (deemed as working 7 hours and 45 minutes per day, 5 days a week).
- **Holidays:** Saturdays, Sundays, national holidays, and the year-end/new year period (December 29 – January 3).
- **Compensation:** In accordance with the Salary Regulations for Academic Staff of The University of Tokyo. Commuter allowance provided if eligibility requirements are met (up to 55,000 yen/month). Bonus paid twice a year.
- **Social Insurance:** Mutual Aid Association of MEXT (Ministry of Education, Culture, Sports, Science and Technology), Employment Insurance, and Workers' Accident Compensation Insurance in accordance with applicable laws.
- **Special Note:** This Center is operated through a fund donated by Taisei Corporation.
- **Work Location:** 7-3-1 Hongo, Bunkyo-ku, Tokyo.

[Scope of Change] Locations designated by the University. *(In principle, orders to relocate or be seconded against the employee's will will not be issued. For details, refer to Article 4 of the Employment Regulations for Academic Staff of The University of Tokyo.)*

8. Application Documents Required (1 copy each, in PDF format)

- **Curriculum Vitae (CV)** with a photograph attached and email address clearly indicated.
  Format: https://www.u-tokyo.ac.jp/en/about/jobs.html
- **List of Research Achievements** (categorized into peer-reviewed journal papers, international conference presentations, books, patents, invited lectures, external funding secured, awards, etc.).
- **Copies or PDF files of 5 major papers.**
- **Summary of Past Research Activities** (approx. 5 A4 pages).
- **Statement of Future Research Plan and Vision after Appointment** (approx. 2 A4 pages; please include its relevance to the mission of the Center and the Division of Infrastructure and Spatial Creation).
- **Statement of Educational Philosophy and Ambitions** (approx. 2 A4 pages).
- **Record of External Funding Secured, Industry-Academia Collaboration, and Social Implementation.**
- **Recommendation letters from 2 references** (including name, affiliation, and contact details).
- **Declaration regarding past criminal penalties, administrative actions, and disciplinary actions due to sexual harassment and/or sexual violence, etc., against students**
  format:
  https://drive.google.com/drive/folders/1mRhJk24Gz6oBhS8gwBPgAFW7j60NFjtu?usp=drive_link

9. Application Deadline

Must arrive no later than **Wednesday November 4th, 2026 (JST)**.

10. Selection Process

Selection will be made through document screening and interviews (including online interviews). Interviews are scheduled for the afternoon of 13:00－15:00 11th Nov. or 14:00－16:00 12th Nov. 2026, and candidates selected for an interview will be contacted separately. Inquiries regarding the application details may be made.

11. Submission Address and Inquiries

Faculty Search Committee, Division of Infrastructure and Spatial Creation, Research Center for Planet Frontier Innovation, Graduate School of Engineering, The University of Tokyo

Contact Person: Prof. Ippei Maruyama

E-mail: i.maruyama@bme.arch.t.u-tokyo.ac.jp

**Applications must be submitted by email with the subject line: "Application for Associate Professor - PFI Center (Division of Infrastructure and Spatial Creation)". The application process will be complete upon receipt of a confirmation reply email.*

12. Additional Information / Notes

- The University of Tokyo is committed to promoting gender equality and actively encourages applications from female candidates when achievements and qualifications are deemed equivalent.
- Applications from individuals with disabilities are welcome, and reasonable accommodations will be provided during the selection process and employment.
- Measures to prevent passive smoking: No smoking on campus grounds (designated outdoor smoking areas available).
- Application documents will be used strictly for the purpose of this selection process, and personal information will be managed appropriately. Documents will not be returned in principle.
- This recruitment announcement is contingent upon the official establishment of the Center.
- Important Note: At the time of employment, if you have individual contracts with foreign corporations or foreign governments, or if you receive significant monetary or other financial benefits from foreign governments, the sharing of certain technologies may be restricted under the Foreign Exchange and Foreign Trade Act (FEFTA). As a result, it may be difficult to fulfill your duties as a faculty member at the university. In such cases, these contracts or benefits must be kept within a scope that does not interfere with the sharing of technology necessary for your duties.