

October 16, 2026

Recruitment for Assistant Professor Position

The Institute of Fluid Science (IFS), Tohoku University invites applications from female candidates for an Assistant Professor position. Preference will be given to highly motivated candidates with an outstanding academic background.

Takehiko Sato

Director

Institute of Fluid Science, Tohoku University

1. Division, Laboratory, Number of Positions and Job Title

Division	Laboratory	Number of Positions and Job Title
Creative Flow Research Division	Integrated Simulation Biomedical Engineering Laboratory	One Position for Assistant Professor, Open to Female Applicants

2. Job Description

We promote research and education to elucidate dynamics and functions of cells and tissues responding to environmental changes, and to clarify the mechanisms underlying the maintenance of homeostasis and the onset and progression of diseases, by reproducing the in vivo environments. We also aim to develop innovative diagnostic and therapeutic technologies.

3. Required Qualifications and Conditions

Female candidates must have a doctoral degree by the time of appointment and a distinguished record of achievement in the specialized field mentioned above. This position is limited to female as part of Tohoku University's efforts to promote gender equality and diversity in accordance with Article 8 of the Act on Securing, Equal Opportunity and Treatment between Men and Women in Employment (Special Provisions Concerning Measures for Female Workers) (see the attachment).

4. Starting Date of Employment

As soon as possible on or after April 1, 2027

(Term: Eight years, in accordance with Article 2 of the Tohoku University Faculty Term Regulations. One renewal of up to two years is permitted.)

5. Application Deadline

Application documents must arrive by noon, Monday, December 21, 2026 (JST).

6. How to Apply

Please submit the following documents via the dedicated form linked below. All documents must be submitted as PDF files in A4 or US Letter size. Please upload items I through VI as separate files.

Application Form: <https://form.jotform.com/262877818039472>

I. Curriculum Vitae

Postal address and email address should be included.

II. List of research accomplishments*

- 1: Summary of the number of research accomplishments
- 2: Peer-reviewed journal papers
- 3: Review papers
- 4: Peer-reviewed full-length proceedings
- 5: Books and book chapters
- 6: Invited lectures (only lectures presented by the applicant)
- 7: Presentations at international conferences other than Item 6
- 8: Experience in organizing conferences
- 9: Patent applications/registrations
- 10: Background and achievements in international research collaboration
- 11: Awards and honors
- 12: Research funding
- 13: Others, if applicable

* For Item (1), applicants must provide the total number of citations for Items (2)–(4) and their h-index, as well as their IDs for ORCID, Scopus, and Web of Science, through which their research achievements can be verified. Applicants should also indicate the number of achievements corresponding to each of Items (2)–(12), and may describe any achievements that should be particularly highlighted. Items (1)–(13) should each be prepared on a separate sheet. For Items (2)–(7), include the names of all co-authors, and for Item (9), the names of all co-inventors. The applicant's name should be underlined in each case. Summarize Items (1) through (13) in a single PDF file.

III. Electronic files of five selected papers in PDF format

IV. Summaries of the five selected papers, approximately 300 words each

V. Plan for future research and education at IFS. Include educational experiences in subjects related to mechanical engineering.

VI. Contact information of up to three references, including name, affiliation, title, postal address, phone number, and email address.

Notes:

- Application documents may be written in either English or Japanese.
- Submitted documents will be used strictly for selection purposes only.
- Candidates may be asked to submit additional materials during the selection process.
- An online interview may be conducted.

7. Contact

General Affairs Section, Institute of Fluid Science, Tohoku University

Email: ifs-jin@grp.tohoku.ac.jp

For more information on the Institute of Fluid Science, please visit:

<https://www.ifs.tohoku.ac.jp/>

Expected research areas and additional information

The Creative Flow Research Division aims to create new functions based on the flow dynamics of fluid properties and flow systems, aspiring to innovation and application in science and technology. By deepening our understanding of flow phenomena in electromagnetic fluids, biological flow systems, aerospace engineering, and design of resource utilization, we contribute to the advancement of this academic field and to the establishment of innovative engineering technologies. In addition, as cooperative courses of the Division of Mechanical Engineering and the Department of Mechanical and Aerospace Engineering, School of Engineering, at Tohoku University, faculty members are responsible for lectures related to mechanical engineering.

Through this recruitment, we are planning to promote the following research.

Division (Laboratory)	Research Contents
Creative Flow Research Division* (Integrated Simulation Biomedical Engineering Laboratory)	Research to elucidate dynamics and functions of cells and tissues responding to environmental changes, to clarify the mechanisms underlying the maintenance of homeostasis and the onset and progression of diseases, and to develop innovative diagnostic and therapeutic technologies. 1. Biomedical engineering research integrating multiple approaches, such as in vitro experiments and computational fluid dynamics 2. Investigation into the mechanisms underlying the maintenance of homeostasis and the onset and progression of diseases 3. Development of advanced biomedical diagnostic and therapeutic technologies

* The Creative Flow Research Division consists of six laboratories: Electromagnetic Functional Flow Dynamics Laboratory, Intelligent Fluid Control Systems Laboratory, Integrated Simulation Biomedical Engineering Laboratory, Aerospace Fluid Engineering Laboratory, Spacecraft Thermal and Fluids Systems Laboratory, and Design of Structure and Flow in the Earth Laboratory.

Notice

This document is an English translation of the original Japanese version. In case of any discrepancy, the Japanese version shall prevail.

Diversity, Equity and Inclusion (DEI)

- Tohoku University's International Support Center (ISC) offers comprehensive assistance to researchers, enabling them to concentrate on their academic work without the usual concerns of relocating to a foreign country. The center provides extensive support services, handling everything from travel coordination and housing arrangements to administrative paperwork, banking setup, and various other necessities.

ISC website: <https://sup.bureau.tohoku.ac.jp/en/>

- Tohoku University actively fosters Diversity, Equity and Inclusion (DEI) initiatives, welcoming applications from talented individuals across all backgrounds and demographics. For more information about their commitment to these principles, interested candidates can visit the university's DEI Declaration website, which outlines their official stance on Diversity, Equity and Inclusion.

Tohoku University Declaration of Diversity, Equity and Inclusion (DEI):
<https://dei.tohoku.ac.jp/vision/about/>

- Tohoku University has released 'Tohoku University - Live as Who You Are - Guidelines for Gender and Sexual Diversity,' which offers guidance on respectful approaches to diverse sexualities within the university community. These guidelines aim to foster an inclusive environment where all members - students, faculty, and staff alike - honor sexual diversity throughout their academic, research, and professional endeavors. Additional information is available on the university's Center for Diversity, Equity, and Inclusion website.

Tohoku University -Live as Who You Are- Guidelines for Gender and Sexual Diversity:
https://dei.tohoku.ac.jp/en/support_program/consulting/for_minority/

- Tohoku University maintains the most extensive on-campus childcare infrastructure among all Japanese national universities. The system features three childcare facilities: Kawauchi Keyaki Nursery School (accommodating 22 children) and Aobayama Midori Nursery School (with space for 116 children), both serving all university staff, alongside Hoshinoko Nursery School (capacity of 120), specifically designated for Tohoku University Hospital employees. Additionally, the university hospital operates a specialized childcare facility for children who are mildly ill or recovering, which is accessible to all university personnel.
- For comprehensive details about Tohoku University's initiatives supporting work-life balance, researcher assistance programs, and gender equality efforts--including specific measures encouraging male employees to take childcare leave--please consult the university's dedicated website.

Center for Diversity, Equity and Inclusion web page
https://dei.tohoku.ac.jp/en/support_program/consulting/for_family/

Human Resources and Planning Department website (in Japanese):
<https://c.bureau.tohoku.ac.jp/jinji-top/external/a-4-kosodate/>