

Introductory Science Experiments

Fall Semester, 2026

TA wanted!

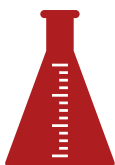


What is Introductory Science Experiments ?

- A science experiment course for first-year students.
- Held on Tuesdays, Thursdays and Fridays afternoon in the Student Experiment Building on the Kawauchi-Kita Campus.

Planned subjects

- ◆ Environmental radioactivity
- ◆ Quality of Water in the Hirose River
- ◆ Synthesis and characterization of conductive polymers
- ◆ Vibrational modes of strings and music
- ◆ Detection of the differences in genomic DNA sequences from different animals
- ◆ Structural analysis of objects by wave diffraction



Role and income

- You will be dedicated to one subject on Tuesday, Thursday or Friday and will assist the students.
- Hourly wage
Master's course: 1,700 yen/h / Doctoral course: 1,900 yen/h
- Note: **The class will be held in JAPANESE.**

See <https://www.ihe.tohoku.ac.jp/ta/> for details of TA.



How to apply

- Application period:
29th Jun. 2026 – 24th Jul. 2026
- Visit the following webpage or scan the QR code to access the application form.

URL:

<https://forms.gle/EK3pPrqspdkYKZws5>

If you have questions, contact t-jikken@ihe.tohoku.ac.jp



Teaching Assistant Recruitment for General Education in 2nd Term of AY 2026

Class		Introductory Science Experiments		
Semester		2nd semester		
Description of Duties		TAs in Introductory Science Experiments will help lead any of the 6 experiment topics. Students rely on TAs, so they occupy a very important position in carrying out classes. Consequently, they should carry out their duties in close cooperation with the topic's instructor. ○ TA Duties (1) Help lead experiments, explain how to use laboratory instruments/equipment, answer student questions about reports etc. (i.e. assist the instructor) (2) Assist with maintaining/inspecting laboratory instruments/equipment (3) Help prepare, make, and distribute class materials (4) Assist with calling students about reports etc. (5) Other duties that have been approved as necessary to the class. ○ TA Hours The working time for one experiment is 5 hrs. The total hours for the semester will be 6 hrs. training + 5 hrs. class assistance x 12 = 66 hrs. ○ TA Workflow during Experiments As a TA, during experiments help the instructor lead the experiment and cooperate so that it can be conducted smoothly and safely. (1) On the day of the experiment, report to work at the laboratory office on the 2nd floor. (2) After signing the attendance sheet, pick up the materials etc. (3) Unlock the instructors' room in the laboratory. (4) Prepare laboratory instruments/equipment and experimental materials. (5) Help lead the experiment with the instructor. (6) After the experiment, inspect the laboratory instruments/equipment. (7) Confirm with the instructor that the experiment is over, then lock the instructors' room. ○ Duties specific to experiment topics See attached list of topics.		
Workplace		Kawauchi Kita Campus/Student Laboratories		
Days, Periods etc.		See table below (coordinate separately to determine workdays)		
Day	Period	Hours/Session	Total Hours	Notes
TUE/THU/FRI	3, 4	5 hrs. (12 times) + 6 hrs. training	66 hrs.	
Hourly wage(2026.4-)		Master's course: 1,700 yen/h Doctoral course: 1,900 yen/h		
Application period		Monday, June 29, 2026, 9:00 AM to Friday, July 24, 2026, 12:00 PM		
How to apply		Please apply by accessing the following webpage. ※Login with your Tohoku University email account (~@dc.tohoku.ac.jp) is required. URL: https://forms.gle/EK3pPrasdpdKZws5		
Points to Note		•Recruitment regardless of field is possible. •If you wish to apply, please obtain approval from your supervising professor in your affiliated laboratory before applying for TA duties. •Please understand in advance that you may not be hired if there are many applicants. •Since communication in Japanese may be required for the job, if you are unable to speak Japanese, please be aware that depending on the assigned tasks, your application may be declined. •If you are engaged as a TA for multiple courses, please ensure that your total working hours in a single day do not exceed 7 hours and 45 minutes. Also, if your work exceeds 6 consecutive hours, you are required to take a break. •In principle, transportation expenses are not reimbursed for TA work.		

List of Topics

【Introductory Science Experiments (Sciences)】

*Subjects highlighted in gray will not be offered in the 2026 academic year.

Theme	Topic	Topic Title	Field	Duties specific to experiment topic
I Earth and the Environment	1	Environmental Radioactivity	Physics, Earth Science	Handle a NaI(Tl) scintillation detector Manage checking sources
	2	Quality of Water in the Hirose River	Chemistry	Handle glass instruments Prepare reagents Waste fluid disposal
	3	Gravity on Earth	Physics, Earth Science	Maintain research equipments Facilitate group work
II Materials	4	Electrical resistivity	Physics	Handle liquid nitrogen
	5	Synthesis and Characterization of Conductive Polymers	Chemistry	Handle glass instruments Prepare reagents Waste fluid disposal
	6	Synthesis of organic compounds	Chemistry	Handle glass instruments Handle gas chromatography equipment Prepare reagents Waste fluid disposal
III Energy	7	Atomic spectra	Physics	Adjust spectrometer slits Handle discharge tubes and prepare discharge devices (wiring etc.)
	8	Electrolysis of Water and Energy	Chemistry	Prepare fuel cell experiment kits (adjust circuits etc.)
IV Science and Culture	9	Vibrational Modes of Strings and Music	Physics	Handle guitars, pianos (no experience needed)
V Life	10	Cells and DNA	Biology	Handle biological and reflected-light microscopes Prepare reagents
	11	Detection of the Differences in Genomic DNA Sequences from Different Animals	Biology	PCR experiments
	12	Structural analysis of objects by wave diffraction	Physics	Handle lasers