

# GUIDELINES FOR APPLICATION TO DOCTORAL DEGREE PROGRAMS IN GRADUATE SCHOOL OF SCIENCE AND TECHNOLOGY

## Pre-arrival Admission for International Applicants from Overseas ※ 渡日前外国人留学生入試

### April 2023, Additional Admission

- ※ The Application procedures described in this Guideline are for international applicants who reside outside Japan.
- ※ Pre-arrival admission is a program through which international students can directly apply for admission from overseas. Selection is carried out and permission for admission is granted to the candidates without requiring them to come to Japan even once before enrollment.
- ※ Note that all date and times in this Guideline are based on Japan time.



GRADUATE SCHOOL OF SCIENCE AND TECHNOLOGY  
SHIZUOKA UNIVERSITY  
SHIZUOKA, JAPAN

## **Shizuoka University's Philosophy and Goals**

### **Our Philosophy: Freedom and Enlightenment & Creation of the Future**

Shizuoka University came into being after the integration of the former Shizuoka High School, Shizuoka First Normal School and Shizuoka Second Normal School, Shizuoka Normal School for Youth, and Hamamatsu Technical College (formerly Hamamatsu Technical High School) in 1949, followed by the absorption of Shizuoka Prefectural College of Agriculture in 1951. Prior to their integration, the university's predecessor institutions all had educational policies that placed importance on students' independence, reflecting the liberal social atmosphere that prevailed in Japan under the "Taisho democracy" of the Taisho period (1912–1926). Of these institutions, the Hamamatsu School of Technology in particular espoused a philosophy of "freedom and enlightenment", conducting a form of education that avoided restricting students through exams or rewards and punishments, and instead placed them in an environment that was as free as possible, aiming to give full rein to students' talents by respecting each person's individuality.

This philosophy of freedom and enlightenment is essential not only for education, but also for original research based on unfettered, free thinking and for mutually enlightening collaboration with society; it should therefore be handed down from one era to the next. Shizuoka University's students and staff (faculty and administrators) recognize this, and continue to uphold the philosophy of "freedom and enlightenment" as a mainstay of our education, our research, and our collaboration with society, industry, and our peers overseas. Joining forces, our students and staff will take determined action to tackle local issues, as well as global issues, continually pursuing peace and happiness for humankind. In this way we will dedicate ourselves to the creation of the future—a future filled with hope.

Guided by its philosophy of "freedom and enlightenment, and creation of the future", as defined above, Shizuoka University will continue contributing to the future of humankind and to the development of the local community by cultivating human resources through high-quality education and creative research. Its endeavors will be bolstered by respect and affection for the abundance of natural and cultural assets found in Shizuoka Prefecture, where the university is located.

Please see below for more information.

<https://www.shizuoka.ac.jp/english/outline/vision/mission/index.html>

### **【Shaping our students】**

We train high-tech engineers and researchers who gain in-depth knowledge of specialized disciplines and obtain a broad-based education that enables them to meet the needs and expectations of the community and international society.

### **【Educational objectives】**

The graduate school provides a *T-style of education* in which specialized courses and courses in relevant new emerging areas (the vertical bar of the T) are combined with broad-ranging general courses enabling students to better contribute and meet the needs of society (the cross bar of the T), while nurturing individuals who exhibit creative energy, self solving ability, and communication skills.

### **【Type of students that we seek】**

The graduate school is looking to admit students

- who are passionately committed to the pursuit of new knowledge and truth in the natural sciences,
- who never give up and are self-motivated and challenged to address tough issues, and
- who demonstrate leadership coupled with a cooperative spirit under a variety of circumstances.

### **【Nature and capabilities required for admission】**

Qualified candidates for the Education Division of the Graduate School of Science and Technology have completed or are expected to complete a master's degree or a professional degree and have a scholastic aptitude equal to or higher than a master's degree. In the selection examination for general, working, and international students, applicants are given an achievement test and an oral exam regarding their master's thesis or research record, in addition to basic subjects related to the applicant's major in their previously completed graduate curriculum.

Through this selection process, applicants are assessed for their ability to perform doctoral-level study and research. The graduate school looks to admit students (1) who are passionately committed to the pursuit of new knowledge and truth in the natural sciences, (2) who never give up and are self-motivated to address tough issues, and (3) who demonstrate leadership coupled with a cooperative spirit under a variety of circumstances. The oral exams administered in the selection process are designed to evaluate the aforementioned personal qualities and aptitude, in addition to the academic capabilities required for doctoral study.

# Student Admission Guide (April 2023 Admission)

## Course for International Students

### 1. Admission Policy

#### 《Department of Nanovision Technology》

A new research field will be created by uniting image science engineers and nanoscience researchers. The control of individual photon and electron, a method based in nanoscience, will be introduced for the first time to the image sciences and will be called "Nanovision Science". The objective of creating this field will be to develop students who can contribute significantly to the industry advancement as engineers and researchers. Candidates will be assessed based on their abilities, academic achievement, and suitability, among other factors.

#### 《Department of Optoelectronics and Nanostructure Science》

The aim of this department is to develop students' professional capabilities to innovate in future technologies and to participate in initiatives geared towards controlling material functions and interactions between photons and nanostructure materials, specifically relevant to expanding areas of industry such as the communication, measurements and chemical industries. This goal will be achieved through cultivating knowledge of fundamental sciences and practical applications. Applicants are required to demonstrate their ability, scholarship and aptitude for achievement.

#### 《Department of Information Science and Technology》

With a foundation in informatics, engineering and basic sciences, the Department of Information Science and Technology aims to educate specialized researchers to develop novel basic information technologies and advanced engineers of information systems with outstanding skills in information techniques. Applicants are assessed based on academic abilities.

#### 《Department of Environment and Energy Systems》

This department specializes in applying basic principles and equations regarding water, air, and solid and hazardous wastes; material and energy balances; and chemical and biogeochemical cycles to solve environmental issues. Topics include synthesis courses about water treatment, environmental change and biogeochemical cycles, analysis of ecosystems, geomicrobiology, CO<sub>2</sub> sequestration, and environmental legislation. Our goal is to support innovative science and technology, through lectures and discussions that connect a broad range of scientific and engineering topics.

#### 《Department of Bioscience》

The department provides education and training to students by conducting frontier research in bioscience and biotechnology, including cell biology, developmental biology, integrative biology, biophysics, microbiology, genomics, biotechnology, bioorganic chemistry, food science, and bioinformatics. Students are expected to take initiative in academia and scientific research and to bring an entrepreneurial drive to new bioindustrial fields.

### 2. Environmental Leaders Program (special doctoral program) (see 19. for more information)

The special doctoral program "Shizuoka University Corporation Environmental Leaders Program (ELSU) APR 2023" offers highly qualified international students the opportunity to pursue doctoral study and research regarding environmental issues. It aims to develop 'strategy-oriented leaders' on diverse topics ranging from natural conservation to sustainable development. Students selected for ELSU APR 2023 will receive a waiver for the entrance fee and tuition for up to three years (note: disqualified students are no longer eligible to receive a tuition waiver).

Eligibility: International students planning to enroll in April 2023 (any department).

Number of students selected: 2 (for April 2023 admission).

Duties: Specified course requirements and fieldwork.

The selection results for ELSU APR 2023 will be posted by March 2023.

### 3. Qualifications for Application (Requirements)

- (1) Persons who have completed a Master's Degree or a Professional Degree.
- (2) Persons who are expected to complete a Master's Degree or a Professional Degree by March 31, 2023.
- (3) Persons who have completed a Master's Degree or a Professional Degree outside of Japan or those who are expected to complete one by March 31, 2023.
- (4) Persons who have studied in a correspondence course of a foreign school in Japan and have completed a Master's Degree or a Degree equal to a Professional Degree or those who are expected to complete one by March 31, 2023.
- (5) Persons who have completed the course of a Master's Degree or a Degree equal to a Professional Degree in Japan designed by the Ministry of Education, Culture, Sports, Science and Technology, Japan, such as a postgraduate course in a foreign country or those who are expected to complete one by March 31, 2023.  
The postgraduate course above must be from an educational institution recognized by the school education system in the country where it is located.
- (6) Persons who have qualifications approved by the Ministry of Education, Culture, Sports, Science and Technology of Japan (see Remark 2).
- (7) Persons who are recognized by our graduate school as having scholastic aptitude equal to or higher than that of a Master's holder through an individual evaluation of admission qualification and who are over 24 years old by March 31, 2023. (Those who were born before April 1, 1998)
- (8) Person who completes course of the United Nations university established based on the United Nations general assembly resolution on December 11, 1972 that provides to Article 1 clause 2 of special measures law (No.72 of law in 1976) according to execution of agreement of association union and Japanese country concerning the United Nations university headquarters, and gives degree that corresponds to degree of master.
- (9) Persons who have passed the Qualifying Examination, or persons who have completed the curricula in a university abroad, have passed an examination equivalent to the Qualifying Examination, and are considered as having the academic aptitude equal to or higher than a Master's Degree.

(Remark 1) Applicants who intend to apply in accordance with Qualification (6) or (7) are required to submit to an Individual Evaluation of Application Qualification before submitting Application Documents for Admission.

See "14. Individual Evaluation of Application Qualification" on page 8.

(Remark 2) (the Ministry of Education Notification No.118)

- ① Persons who have graduated from a university in Japan and have experience working in universities or research institutions for more than two years and those who are recognized by our graduate school as having scholastic aptitude equal to or higher than that of a Master's holder through an individual inspection of application qualification.
- ② Persons who have experience working in universities or research institutions for more than two years after completing 16 years of education in the education system of a foreign country or after completing the equivalent correspondence program in Japan and who are recognized by our graduate school as having scholastic aptitude equal to or higher than that of a Master's holder through an individual inspection of application qualification.

#### 4. Admission Capacity

Department	Admission Capacity
Nanovision Technology	A few people
Optoelectronics and Nanostructure Science	//
Information Science and Technology	//
Environment and Energy Systems	//
Bioscience	//
Total	//

Refer to “The list of Supervising Professors and Research-and-Education Subject in the Graduate School of Science and Technology, Educational Division” on the end of this guideline. In order to understand our graduate school, we strongly recommend to visit our web page:

<https://gsst.shizuoka.ac.jp/?lang=en>

#### 5. Selection Procedure

Selection will be carried out on the basis of a presentation of the applicant’s Research Record/Master’s thesis, oral exam and application documents. Applicants are required to give a presentation of his/her Master’s thesis or research record and to take an oral exam about the presentation and subjects which have been studied. The duration of the presentation should be 30 minutes. Applicants who have research experience after receiving a Master’s Degree may present research conducted after the Master’s Degree. Applicants should prepare a personal computer including any software and others.

Applicants are screened based on oral presentation and application document comprehensively on a 0-100 scale.

#### 6. Date of Examination

Date	Time	Subjects
December 16(Friday), 2022 (The date of the examination will be decided in consultation with the applicant.)	Details will be provided to each applicant.	Oral Examination

#### 7. Application Documents

- (1) Application Form. Complete the form provided.
- (2) Examination Card and Photo ID Card. Complete the form provided and paste a photo taken within 3 months of the date of submission.
- (3) Research Plan. Use the form provided.
- (4) Official Certificate of Achievement for undergraduate studies issued by the university.
- (5) Official Certificate of Achievement for graduate studies issued by the graduate school.
- (6) Official Certificate of Graduation from graduate school issued by the graduate school or an official letter of certification from the graduate school at which the applicant is currently enrolled, stating the expected graduation date. Applicants intending to apply in accordance with Qualification (6) or (7) must submit Academic Records certified by the university from which the applicant graduated most recently. (See 14. Individual Evaluation of Application Qualification on page 8.)
- (7) Applicants intending to apply in accordance with Qualification (1), (3), (4), (5) or (8) and who

have a Master's Degree or Professional Degree must submit a copy of their Master's thesis or the summary in English, on 2-pages of A4-size paper. Applicants who have a record of research should append a Summary of Research and Technological Achievement in English. Fill in the form provided, maximum 1,200 words. Applicants intending to apply in accordance with Qualification (2) or (4), and who are expected to complete Master's Degree or Professional Degree must submit a report on the progress of their Master's thesis in English, on 2 pages of A4-size paper. Copies of any academic research publications, academic conference presentations or patents, etc., if any, should also be submitted additionally.

(8) Permission for Examination written by the chief (or other responsible person) of the applicant's place of employment if he/she works for a public office or company.

(9) Application Fee: 30,000 JPY.

Transfer "30,000 JPY" to a bank account of Shizuoka University. In order to have the account number applicants must contact the Doctoral Program Graduate School Unit (see 17. Inquiries). Please keep a "transfer certificate".

Paid application fees cannot be refunded except under the some cases, regardless of reason. (see **16. Entrance Exam Fee Refund Policy**).

An application fee is not required for applicants going through Qualification (6) or (7). The result of the evaluation will be sent to the applicant by December 1 (Thursday), 2022. Successful applicants in the Individual Evaluation are required to pay the fee for the selection. Instructions for paying the fee will be included with the result notification.

(10) Return Seal. Write an address to receive the result notification on the form provided.

(11) Working students are required to submit a Record of Research and Technological Achievements.

A letter of recommendation written by the chief (or other responsible person) of the applicant's place of employment, if any.

(12) A copy of passport where applicants' name, photo, birth date, sex, and signature are shown.

(13) Presentation file for Internet Interview

Presentation in the internet interview should cover the following A and B.

**A. Research or study in the Master's course and/or most recent research**

**B. Future research plan**

A corresponding presentation file should be submitted in advance by December 9, 2022, in ppt, pdf or doc format by E-mail addressed to:

**[souzou-jimu-hgakumu@lists.gsest.shizuoka.ac.jp](mailto:souzou-jimu-hgakumu@lists.gsest.shizuoka.ac.jp)**

## **8. Application Period**

Applicants who intend to apply in accordance with Qualification (1), (2) or (9) and those who have met Qualification (6) or (7) by Individual Qualification:

**From November 25 (Friday) to December 1(Thursday), 2022.**

(2) Applicants who intend to apply in accordance with Qualification (3), (4), (5) or (8):

**From November 4 (Friday) to November 11 (Friday), 2022.**

## **9. Address for Submission of Application Documents**

Doctoral Program Graduate School Unit, Graduate School of Science and Technology,  
Shizuoka University,

3-5-1 Johoku, Naka-ku, Hamamatsu 432-8561, Japan

TEL (+81)53-478-1350

FAX (+81)53-478-1359

E-MAIL: [souzou-jimu-hgakumu@lists.gsest.shizuoka.ac.jp](mailto:souzou-jimu-hgakumu@lists.gsest.shizuoka.ac.jp)

## **10. Submission Procedure**

Applicants must collect the documents identified above, and send them by REGISTERED MAIL (such as EMS) to the Doctoral Program Graduate School Unit in the above.

Please write clearly in red "Application Documents for the Graduate School of Science and Technology, Education Division" on the front of the envelope.

## **11. Announcement of Results**

At 10:00 on January 20 (Friday), 2023 the successful applicants' exam numbers will be posted on the Graduate School of Science and Technology ,Shizuoka University Website (Adomission). <https://gsst.shizuoka.ac.jp/?lang=en>

## 12. Admission Procedures

Successful applicants should complete the admission procedure by the following date. Instruction for the admission procedure will be sent.

- (1) Registration Period and Payment:  
Registration Period: Late in March, 2023. The detail will be informed.
- (2) Method of Registration: Mail to the Doctoral Program Graduate School Unit (see 9. **Address for Submission of Application Documents**).

Notice of Payment:

Admission fee must be paid when completing the admission procedures.

- (3) Admission Fee and Tuition

Admission Fee: ¥282,000 (actual for 2022).

Tuition: ¥535,800 for the year (¥267,900 for a semester) (actual for 2022).

Note:

- a. If tuition for the previous term has not been paid by admission day, it must be paid between April 1 and April 28, 2023.
- b. If you need to withdraw from school after enrolling any time up to March 31, 2023, the tuition shall be refunded in full upon request by the person who paid the tuition. Note that the admission fee shall not be refunded under any circumstance.
- c. Tuition and other fees assessed by Shizuoka University are standardized and determined by the Ministry of Education, Culture, Sports, Science and Technology (MEXT).
- d. If the tuition fee is increased at the time of admission or while school is in session, the new fee shall apply from the date that it goes into effect.
- e. If MEXT raises the “Standard Tuition Rate for 2023” prior to March 31, 2023, the additional amount (the difference between what you have already paid and the increased rate) shall be withdrawn from your designated account in October 2023

- (4) Exception from Payment of Admission and Tuition Fees

- a. Exception from Payment of Admission and Tuition Fees

In case of lower income than a certain level at the admission it may be possible that the exception rule from payment of admission and tuition fees to be applied to the student. The details of this system will be informed prior to the admission process.

## 13. Important Remarks

- (1) Submission of documents must be made by registered mail. Late applications will not be accepted. Documents must arrive before the application deadline.
- (2) Incomplete applications will not be accepted. Submitted documents will not be returned. Be careful to avoid any omissions or errors in writing. Any change of description after the submission of documents will not be accepted, however, change of address should be informed to the Doctoral Program Graduate School Unit.
- (3) Applicants who intended to apply in accordance with Qualification (3), (4), (5) and (8) have to submit the required document prior to the application period as mentioned 8. (2) for qualifying and checking the application document.

## 14. Individual Evaluation of Application Qualification

Those who intend to apply in accordance with Qualification (6) or (7) are required to submit to an individual evaluation of their scientific ability in relation to Qualifications for Application. The evaluation is done to judge the scholastic aptitude of application based on documents applicants.

- (1) Application Documents

- a. Application Form for Individual Evaluation. Complete the form provided.
- b. Official Certificate of Graduation from undergraduate school issued by the most recently attended the university.
- c. Official Certificate of Achievement from undergraduate school issued by the most recently



- attended the university.
  - d. Summary of Research and Technological Achievements. Fill in the form provided.
  - e. Record of Research and Technological Achievements. Fill in the provided format.
  - f. Copies of any academic research publications, academic presentations or patents, etc. if any, should also be submitted.
  - g. A stamped self-addressed envelope for the Result Notification. Write the applicant's name, address and ZIP code on a No.3 envelope (12.0 cm x 23.5 cm)
- (2) Application Period  
From November 4 (Friday) to November 11 (Friday), 2022.  
Applications must be submitted by the deadline by registered mail to the Doctoral Program Graduate School Unit (see 9. Address for Submission) by the applicants.
- (3) Results Notification  
Results will be sent by mail to all applicants by November 24 (Thursday), 2022
- (4) Application Period and Application Documents  
Successful applicants in Individual Evaluation of Application Qualification must complete the submission procedures described from 7. Application Documents to 10. Submission Procedure. The following materials are required and submission must be made by mail. Instructions for submission will be included with the result notification. Note that the application period is from November 25 (Friday) to December 1 (Thursday), 2022.
- a. Application Form for Entrance Examination. Complete the form provided.
  - b. Examination Card and Photo ID Card. Complete the form provided and attach a photo taken within 3 months of the date of submission.
  - c. Research Plan. Fill in the form provided.
  - d. Permission for Examination written by the chief (or other responsible person) of the applicant's employment if he/she works for a public office or company.
  - e. A letter of recommendation written by the chief (or other responsible person) of the applicant's employment, if any.
  - f. Application Fee : 30,000 JPY.
  - g. Return Seal. Write an address to receive the result notification on the form provided.
  - h. A copy of passport where applicants' name, photo, birth date, sex, and signature are shown.

### 15. Special Exam Procedures for Applicants with Disabilities

Applicants with disabilities who require special considerations in taking exams and attending school must meet with the school for an interview before the student applies, so please submit the following form. We will contact you as soon as a determination is made based on the interview. We recommend that all new student applicants with disabilities actually visit the campus before applying to examine the school facilities and campus in person.

### 16. Entrance Exam Fee Refund Policy

Paid application fees cannot be refunded except under the following cases, regardless of reason.

(1) Refunds can be issued under the following circumstances:

- ① The applicant will not apply to this school although the test fees have been paid.
- ② The test fee was paid twice by mistake
- ③ The application could not be processed due to incomplete documents and/or due to not satisfying necessary conditions.

(2) Amount to be refunded:

The amount overpaid or the total amount will be refunded to the applicant as the applicant requests

(3) Applying for a Refund

Students must seek a refund in writing by mail. In the case of ① or ② in section (1) above, please clearly fill out 1-8 of the following refund request form. All information must be printed clearly. You MUST attach EITHER the "Confirmation of Postal Transfer" (郵便振替払込受付証明書 yuubin furikae haraikomi uketsuke shoumeisho) / ("Confirmation of Entrance Exam

Fee Payment” 入学検定料受付証明書 nyuugaku kenteiryō uketsuke shoumeisho )  
OR the “Receipt of Payment” (払込金受領証 haraikomikin jyuryōshō).  
Refund applications MUST BE RECEIVED by the Shizuoka University Graduate School of Science and Technology no later than February 28 (Monday) 2022. In the case of ③, a copy of the refund request form will be included with your returned documents. Please fill it out and send it by mail.

All bank handling fees are the responsibility of the applicant.

Request for Refund of Shizuoka University Entrance Examination Fees			
	Year	Month	Day
To the President of Shizuoka University			
1. Reason for Refund Request			
2. Type of Test (General Entrance Exam, Entrance Exam for the General Public, Entrance Exam for International Students)			
3. Desired Major			
4. Name			
5. Current Address			
6. Telephone Number			
7. Amount to the Refunded (¥30,000)			
8. Bank Account Transfer Details			
* Bank Name			
* Branch Name		*Type of Account	*Account Number
* Name on Account			
* In name on account differs from applicant's, write account holder's relationship to applicant:			

## 17. Inquiries

Doctoral Program Graduate School Unit, Graduate School of Science and Technology,  
Shizuoka University,  
3-5-1 Johoku, Naka-ku, Hamamatsu 432-8561, Japan  
TEL (+81)53-478-1350  
FAX (+81)53-478-1359  
E-MAIL: [souzou-jimu-hgakumu@lists.gsest.shizuoka.ac.jp](mailto:souzou-jimu-hgakumu@lists.gsest.shizuoka.ac.jp)

General information for the Graduate School of Science and Technology, Shizuoka University, Japan, is available at: <https://gsst.shizuoka.ac.jp/?lang=en>

**Applicants who have not accepted can request the disclosure of your examination results from April 17 (Monday), 2023 to May 17 (Wednesday), 2023.**

## 18. Notes

Personal information submitted for the application & Results of entrance examinations are used only for the following purpose, and shall not be shown, presented or deposited elsewhere.

- (i) For administration of the entrance examination.
- (ii) For completion of admission procedures.
- (iii) For evaluation of eligibility for admission.
- (iv) For needs of students after matriculation.

- (V) For research to support the improvement of selection method of entrants and university education.

## 19. Environmental Leaders Program (ELSU) APR 2023

### (1) PROGRAM DESCRIPTION

The “Shizuoka University Corporation Environmental Leaders Program (ELSU) APR 2023” is a special doctoral program that offers highly qualified international students the opportunity to pursue doctoral study and research regarding environmental issues. It aims to develop ‘strategy-oriented leaders’ with expertise in a diverse range of topics - from natural conservation to sustainable development. We strongly urge all students under ELSU to complete both “Ph. D. degree” and “Environmental Meister”. Students selected for ELSU APR 2023 will receive an entrance fee waiver in addition to a tuition waiver for up to three years. (Note: disqualified students will not be eligible to receive the tuition waiver.)

**Eligibility:** International students planning to enroll in APR 2023.

**Number of students selected:** 2 (APR 2023 admission)

### (2) APPLICATION PROCEDURES

Those who are interested in applying for ELSU APR 2023 should submit the following documents by December 9 (Friday), 2022, pending approval from the prospective advisor.

#### Additional application materials to be submitted:

- (1) Description of research title and plan;
- (2) Records and summaries of field surveys/activities;
- (3) Recommendation from previous advisor or another person who is familiar with the applicant’s work (one recommendation, no formal template).

All documents must be submitted during the application period.

#### Program requirements:

To complete “Environmental Meister”, all students under ELSU must perform the following three tasks:

- (1) 6 credits from the selected courses.
- (2) 45 hours of fieldwork
- (3) One presentation (in English) at an international conference

Courses	Credits	Notes
Environmental Process Engineering	2	Courses must be taken as follows:  (1) 3 credits from the left as part of Ph.D. requirements. (2) Additional 3 credits or more from the left separate from Ph.D. requirements. (3) Either Environmental Ethics or Bioethics is required.
Manufacturing Systems	2	
Biogeochemical Cycling in the Biosphere	2	
Earth Interior Dynamics	2	
Global Environmental Systems Engineering	2	
New Genetic and Cellular Engineering	2	
Integrative Bioregulation	2	
Environmental Analysis	1	
Climate Change and Biogeochemical Cycles	1	
Marine Biology	1	
Remote Sensing	1	
An Essay on Natural Environment	1	
Energy and Environment	2	
Life, Environment and Science	2	
Environmental Ethics	1	
Bioethics	1	
Practical Use Technology English Conversation I	1	
Practical Use Technology English Conversation II	1	

### **(3) Announcement of Successful Applicants**

The selection results for ELSU **APR 2023** will be posted in March 2023.

### **20. Security Export Control**

Shizuoka University has established “Shizuoka University Security Export Control regulations” in accordance with “Foreign Exchange and Foreign Trade Act”, and rigorously screens potential international students on the basis of these regulations. International applicants who fall under any of the conditions set out in said regulations may be unable to enter their desired course or program.

[Reference]

“Shizuoka University Security Export Control regulations”

<https://reiki.adb.shizuoka.ac.jp/aggregate/catalog/index.htm>

Ministry of Economy, Trade and Industry “Security Export Control in Japan”

<https://www.meti.go.jp/policy/anpo/englishpage.html>

# 令和4(2022)年度静岡大学大学院自然科学系教育部(後期3年博士課程)概要

Graduate School of Science and Technology, Educational Division

## ナノビジョン工学専攻

Department of Nanovision Technology

※1: 令和5年3月退職予定/Scheduled to retire in March 2023

※2: 令和6年3月退職予定/Scheduled to retire in March 2024

※3: 令和7年3月退職予定/Scheduled to retire in March 2025

担当教員 Academic Staff		教育研究分野 Research Area	所属 キャンパス
教授 Prof.	青木 徹 Toru Aoki	不可視光イメージング, エネルギー弁別高エネルギー電磁波 (X線・ガンマ線)イメージング Unvisible Light Imaging, Energy Discriminated High-energy Radiation (X-ray, Gamma-ray) Imaging	浜松 Hamamatsu
教授 Prof.	池田 浩也 Hiroya Ikeda	赤外線センサ・生体センサのためのナノ構造熱電変換材料の開発 Thermoelectric Nanomaterials for Infrared Photodetector and Physiological Sensor	浜松 Hamamatsu
※2 教授 Prof.	石田 明広 Akihiro Ishida	量子井戸物性・デバイス Physics and Device Applications of Semiconductor Quantum Wells	浜松 Hamamatsu
教授 Prof.	居波 渉 Wataru Inami	先端光計測, 顕微鏡手法に関する研究 Advanced optical measurement and microscopy	浜松 Hamamatsu
教授 Prof.	井上 翼 Yoku Inoue	半導体およびカーボン材料によるナノマテリアルテクノロジー Semiconductor and Carbon Nanomaterial Technology	浜松 Hamamatsu
※1 教授 Prof.	猪川 洋 Hiroshi Inokawa	ナノデバイスを用いた回路・システム集積化の研究 Research on Integrated Nanodevices for Circuits and Systems	浜松 Hamamatsu
教授 Prof.	海老澤 嘉伸 Yoshinobu Ebisawa	イメージング技術に基づく視覚工学, 視覚-眼球運動系の心理物理 Vision Engineering Based on Imaging Technology and Psychophysics of Visuo-oculomotor System	浜松 Hamamatsu
教授 Prof.	小野 篤史 Atsushi Ono	近接場光学, プラズモニクス Near-field Optics, Plasmonics	浜松 Hamamatsu
教授 Prof.	小野 行徳 Yukinori Ono	CMOS技術を基盤とした量子ナノエレクトロニクス Quantum Nanoelectronics based on CMOS Technologies	浜松 Hamamatsu
教授 Prof.	香川 景一郎 Keiichiro Kagawa	情報光学, 高機能CMOSイメージセンサ, 光学・撮像・処理融合 Information photonics, functional CMOS image sensor, optics- sensing-processing fusion	浜松 Hamamatsu
※2 教授 Prof.	金武 佳明 Kamen Kanev	表面情報伝達担体に関する研究とその応用 Research on Surface Communication Carriers and Its Application (Surface Based Interactions)	浜松 Hamamatsu
教授 Prof.	川人 祥二 Shoji Kawahito	機能集積イメージングデバイスとシステム Imaging Devices and Systems Integrating Advanced Functions	浜松 Hamamatsu
教授 Prof.	越水 正典 Masanori Koshimizu	放射線計測に資する光学材料開発, 光物性 Development of optical materials for radiation detection, Optical properties of materials	浜松 Hamamatsu

担当教員 Academic Staff		教育研究分野 Research Area	所属 キャンパス
教授 Prof.	佐々木 哲朗 Tetsuo Sasaki	医薬品の結晶成長とテラヘルツレーザー分光による評価 Crystal Evaluation by THz Laser Spectroscopy and Crystal Growth of Pharmaceuticals	浜松 Hamamatsu
教授 Prof.	橋口 原 Gen Hashiguti	集積化微小電気機械システム Integrated Micro-Electro-Mechanical System	浜松 Hamamatsu
教授 Prof.	原 和彦 Kazuhiko Hara	ナノビジョン光材料・デバイスの開発 Development of the Optoelectronic Materials and Devices for the Nanovision systems	浜松 Hamamatsu
教授 Prof.	Mizeikis Vygantas	フェムト秒レーザーリソグラフィによるフォトニック結晶の作製とその光学特性評価 Fabrication and optical characterization of photonic crystal structures by femtosecond laser lithography	浜松 Hamamatsu
准教授 Assoc.Prof.	荻野 明久 Akihisa Ogino	熱電子発電, プラズマ応用 Thermionic Energy Conversion, Plasma Application	浜松 Hamamatsu
准教授 Assoc.Prof.	光野 徹也 Tetsuya Kono	ナノマイクロ構造, ナノマイクロフォトニクス Nano-micro structures, Nano-micro photonics	浜松 Hamamatsu
准教授 Assoc.Prof.	小南 裕子 Hiroko Kominami	光物性, 光デバイス Optical properties of materials, Opto-electronic devices	浜松 Hamamatsu
准教授 Assoc.Prof.	武田 正典 Masanori Takeda	テラヘルツ帯における分光及び高感度超伝導検出器技術に関する研究 Research on Spectroscopy and High-Sensitivity Superconducting Detector Technologies in the Terahertz Band	浜松 Hamamatsu
准教授 Assoc.Prof.	Tripathi Saroj Raman	テラヘルツフォトニクス, テラヘルツ波の産業応用 Terahertz photonics, Industrial application of terahertz wave	浜松 Hamamatsu
准教授 Assoc.Prof.	中野 貴之 Takayuki Nakano	III族窒化物半導体結晶成長, 光機能デバイス, 熱中性子半導体検出器 Epitaxial growth of group-III nitride semiconductor, Optical functional devices, Thermal neutron semiconductor detector	浜松 Hamamatsu
准教授 Assoc.Prof.	根尾 陽一郎 Yoichiro Neo	スミスパーセル超放射, 高感度撮像管, 高輝度電子源, 有機高分子ファイバーデバイス Superradiant in tera-hertz, high sensitive imaging tube, high brightness cathode, organic polymer fibrous devices	浜松 Hamamatsu
准教授 Assoc.Prof.	二川 雅登 Masato Futagawa	農業や環境分野のための水分量, pH, イオン濃度計測が可能な多機能型センサデバイス・センサ計測回路に関する研究 Multimodal Sensor Devices and Sensor Measurement Circuits to Monitor Water Content, pH, and Ion Concentration for Agriculture and Environmental fields	浜松 Hamamatsu
准教授 Assoc.Prof.	堀 匡寛 Masahiro Hori	シリコン中の単一電荷, 単一スピン操作 Manipulation of Single Charge and Spin in Silicon	浜松 Hamamatsu

## 光・ナノ物質機能専攻

Department of Optoelectronics and Nanostructure Science

※1: 令和5年3月退職予定/Scheduled to retire in March 2023

※2: 令和6年3月退職予定/Scheduled to retire in March 2024

※3: 令和7年3月退職予定/Scheduled to retire in March 2025

担当教員 Academic Staff	教育研究分野 Research Area	所属 キャンパス
教授 Prof. 岩田 太 Futoshi Iwata	ナノスケール表面計測・加工および光精密機器開発 Nano-scale Measurement, Fabrication and Optical Precision Instruments	浜松 Hamamatsu
教授 Prof. 江上 力 Chikara Egami	超高密度光メモリ, 非線形レーザ顕微鏡, 光情報処理 High Dense Optical Storage System, Nonlinear Optical Microscope, Optical Information Processing	浜松 Hamamatsu
教授 Prof. 岡林 利明 Toshiaki Okabayashi	高分解能分光法による短寿命分子種とクラスターの物理化学的研究 Physico-chemical Studies on the Transient Molecules and Clusters Using the High Resolution Spectroscopic Method	静岡 Shizuoka
※1 教授 Prof. 喜多 隆介 Ryusuke Kita	酸化物高温超伝導体材料の作製および評価 Synthesis and Characterization of Oxide High-Tc Superconductors	浜松 Hamamatsu
教授 Prof. 久保野 敦史 Atsushi Kubono	有機凝集体(液晶、高分子薄膜)の構造と物性 Structures and Physical Properties of Organic Condensed Matter - Liquid Crystals and Polymeric Thin Films	浜松 Hamamatsu
教授 Prof. 小林 健二 Kenji Kobayashi	超分子化学に基づく物質創製と機能化 Construction and Function of New Materials Based on Supramolecular Chemistry	静岡 Shizuoka
教授 Prof. 近藤 淳 Jun Kondoh	表面波素子の化学センサ, バイオセンサ, およびワイヤレスセンサへの応用とマイクロ流体素子開発 Application of surface wave devices for chemical, bio- and wireless sensors, and development of microfluidic system	浜松 Hamamatsu
教授 Prof. 近藤 満 Mitsuru Kondo	新機能発現へ向けた新しい金属錯体の合成 Synthetic Studies of Coordination Materials for Creations of New Functional Solids	静岡 Shizuoka
教授 Prof. 昆野 昭則 Akinori Konno	ナノマテリアルの光電気化学および光電変換への応用 Photoelectrochemistry of Nanomaterials and Their Applications to Photoelectric Energy Conversion	浜松 Hamamatsu
※1 教授 Prof. 坂本 健吉 Kenkichi Sakamoto	有機ケイ素化学を基盤とする機能性材料 Functional Materials Based on Organosilicon Chemistry	静岡 Shizuoka
教授 Prof. 下村 勝 Masaru Shimomura	原子スケールで制御された表面界面構造の研究 Research on atomically controlled surface and interface structures	浜松 Hamamatsu
教授 Prof. 関根 理香 Rika Sekine	計算・理論化学を用いた無機化合物の構造・物性・反応性の解明 Computational and Theoretical Chemistry for Analysis of Structure, Properties, and Reactivity of Inorganic Compounds.	静岡 Shizuoka
教授 Prof. 立岡 浩一 Hirokazu Tatsuoka	ナノ光電及び熱電変換材料の作製と評価 Syntheses and Characterizations of Nano-optoelectronic & Nano-thermoelectric Materials	浜松 Hamamatsu
※2 教授 Prof. 富田 誠 Makoto Tomita	ナノ構造媒質中での光の伝播, 放射などの量子光学, 量子エレクトロニクス Quantum Optics, Quantum Electronic, Including Light Propagation and Emission in Nanostructured Media	静岡 Shizuoka

担当教員 Academic Staff		教育研究分野 Research Area	所属 キャンパス
教授 Prof.	鳥居 肇 Hajime Torii	液体系と生体分子系のダイナミクス・機能と相互作用の理論的解析 Theoretical Analysis of the Dynamics, Functions, and Interactions of Liquids and Biomolecular Systems	浜松 Hamamatsu
教授 Prof.	平川 和貴 Kazutaka Hirakawa	光線力学的療法の基礎研究、ナノ粒子の光・物理化学 Fundamental Study on Photodynamic Therapy, Photo- Physical Chemistry of Nanoparticles	浜松 Hamamatsu
教授 Prof.	符 徳 勝 Desheng Fu	新規グリーンな多機能性(誘電・圧電・焦電・光電)酸化物の開発, 固体物性 Searching for novel green multi-functional oxides (dielectrics/piezoelectrics/pyroelectrics/electro-optics), solid state physics.	浜松 Hamamatsu
教授 Prof.	藤間 信久 Nobuhisa Fujima	第一原理計算による物質中のナノスケール原子構造・電子構造 Nano Scale Atomic and Electronic Structures in Materials by First Principles Calculation	浜松 Hamamatsu
教授 Prof.	間瀬 暢之 Nobuyuki Mase	グリーン有機化学とキラルテクノロジー Green Organic Chemistry and Chiral Technology	浜松 Hamamatsu
教授 Prof.	李 洪 譜 Hongpu Li	光ファイバ工学, 光ファイバセンサー, 非線形ファイバ光学, 光情報処理 Fiber Optics, Fiber Sensors, Nonlinear Fiber Optics, Optical Information Processing	浜松 Hamamatsu
教授 Prof.	脇谷 尚樹 Naoki Wakiya	気相法による新規機能性セラミックス薄膜の作製と物性 Preparation and properties of novel functional ceramics thin films through physical vapor deposition	浜松 Hamamatsu
准教授 Assoc.Prof.	海老原 孝雄 Takao Ebihara	希土類および3d遷移金属間化合物の純良単結晶育成および磁性と伝導・超伝導についての電子輸送論的研究 Investigation of electrotransport properties in high quality single crystals of rare earth and 3d-transition intermetallic compounds.	静岡 Shizuoka
准教授 Assoc.Prof.	奥谷 昌之 Masayuki Okuya	光機能性薄膜の作製と応用 Film formation and application to opt-electronic devices	浜松 Hamamatsu
准教授 Assoc.Prof.	坂元 尚紀 Naonori Sakamoto	透過型電子顕微鏡によるナノマテリアルの構造解析 Structure analysis for nanomaterials using transmission electron microscopy 低環境負荷プロセスによる無機ナノ構造の構築と物性に関する研究 Research about fabrication and function of inorganic nano structured materials by low energy consuming process	浜松 Hamamatsu
准教授 Assoc.Prof.	清水 一男 Kazuo Shimizu	マイクロプラズマの医療分野、環境分野への応用研究(プラズマドラッグデリバリー、プラズマアクチュエータ、室内空気浄化) Microplasma applications to medical and environmental field (Plasma drug delivery, plasma actuator, indoor air treatment)	浜松 Hamamatsu
准教授 Assoc.Prof.	田中 康隆 Yasutaka Tanaka	有機合成と超分子化学を基本とする不斉情報転写や光分子デバイス Chiral Information Transfer and Photo-molecular Devices Based on Synthetic Organic and Supramolecular Chemistry	浜松 Hamamatsu
准教授 Assoc.Prof.	富田 靖正 Yasumasa Tomita	無機固体イオニクス材料の合成および物性評価 Synthesis and Characterization of Inorganic Materials for Solid State Ionics	浜松 Hamamatsu
准教授 Assoc.Prof.	中村 篤志 Atsushi Nakamura	2次元層状物質の結晶成長および物性評価 Synthesis and Characterization of 2D materials	浜松 Hamamatsu
准教授 Assoc.Prof.	鳴海 哲夫 Tetsuo Narumi	創薬を指向した有機化学的手法の開発、生命現象を有機化学で理解するための機能性分子の創製 Organic Chemistry-Driven Drug Discovery and Chemical Biology	浜松 Hamamatsu



担当教員 Academic Staff	教育研究分野 Research Area	所属 キャンパス
准教授 Assoc.Prof. 松田 靖弘 Yasuhiro Matsuda	溶液中およびゲル中の高分子構造の解析 Characterization of Polymer Structure in Solution and Gel	浜松 Hamamatsu
准教授 Assoc.Prof. Daniel Moraru	ナノスケール及び原子レベルエレクトロニクス、ナノ材料科学 Nanoscale and Atomic-Scale Electronics, Nano-Materials Science	浜松 Hamamatsu
准教授 Assoc.Prof. 守谷 誠 Makoto Moriya	超分子の規則的な配列を利用した分子イオニクスに関する研究 Molecular Ionics Using Supramolecular Assemblies	静岡 Shizuoka
助教 Assist.Prof. 佐藤 浩平 Sato Kohei	ペプチド・タンパク質化学を基盤とするケミカルバイオロジー研究 Peptide/Protein-Based Chemical Biology	浜松 Hamamatsu

## 情報科学専攻

Department of Information Science and Technology

※1: 令和5年3月退職予定/Scheduled to retire in March 2023

※2: 令和6年3月退職予定/Scheduled to retire in March 2024

※3: 令和7年3月退職予定/Scheduled to retire in March 2025

担当教員 Academic Staff	教育研究分野 Research Area	所属 キャンパス
教授 Prof. 石原 進 Susumu Ishihara	モバイルコンピューティング, コンピュータネットワーク, モバイルネットワーク Mobile Computing, Computer Networks, Mobile Networks	浜松 Hamamatsu
教授 Prof. 大島 純 Jun Oshima	学習科学, 教育工学 Learning Sciences, Educational Technology	浜松 Hamamatsu
教授 Prof. 大島 律子 Ritsuko Oshima	学習科学, 教育工学 Learning Sciences, Educational Technology	浜松 Hamamatsu
教授 Prof. 大橋 剛介 Gosuke Ohashi	画像センシング, 画像処理 Sensing via Image Information, Image Processing	浜松 Hamamatsu
教授 Prof. 桐山 伸也 Shinya Kiriyama	音声言語情報処理, 知的情報処理, ヒューマンインタフェース Spoken Language Processing, Intelligent Information Processing, Human Interface	浜松 Hamamatsu
教授 Prof. 高口 鉄平 Teppei Koguchi	情報通信経済学, パーソナルデータの経済分析 ICT Economics, Economic Analysis of Personal Data	浜松 Hamamatsu
教授 Prof. 小西 達裕 Tatsuhiko Konishi	知的教育システム, 知的インタフェース Intelligent Educational Systems, Intelligent Human Interfaces	浜松 Hamamatsu
教授 Prof. 佐治 斉 Hitoshi Saji	ヘリテレシステム Helitele system	浜松 Hamamatsu
教授 Prof. 塩見 彰睦 Akichika Shiomi	画像処理, 組込み用画像処理システム Image Processing, Embedded Image Processing System	浜松 Hamamatsu
教授 Prof. 杉浦 彰彦 Akihiko Sugiura	超高精細画像の高効率符号化, ワイヤレスネットワーク通信の応用 High Efficiency Encoding of Ultra High Definition Television, Application of Wireless Network Communication	浜松 Hamamatsu
教授 Prof. 杉山 岳弘 Takahiro Sugiyama	画像処理と応用 Image Processing and Application	浜松 Hamamatsu
教授 Prof. 鈴木 信行 Nobuyuki Suzuki	非古典述語論理, Kripke意味論 Non-classical Predicate Logics, Kripke Semantics	静岡 Shizuoka
教授 Prof. 竹内 勇剛 Yugo Takeuchi	認知科学, 対話コミュニケーション, HAI Cognitive Science, Verbal Communication, Human-Agent Interaction	浜松 Hamamatsu
教授 Prof. 田中 直樹 Naoki Tanaka	作用素半群と発展方程式 Semigroups of Operators and Evolution Equations	静岡 Shizuoka

担当教員 Academic Staff		教育研究分野 Research Area	所属 キャンパス
教授 Prof.	土屋麻人 Asato Tsuchiya	素粒子論、場の量子論、弦理論、宇宙論 Theoretical Particle Physics, Quantum Field Theory, String Theory, Cosmology	静岡 Shizuoka
教授 Prof.	永吉実武 Sanetake Nagayoshi	経営情報システム、技術経営、企業工学 Management Information Systems, Management of Technology, Enterprise Engineering	浜松 Hamamatsu
教授 Prof.	西垣正勝 Masakatsu Nishigaki	要素技術・運用技術・ユーザ特性を統合したヒューマニクス情報セキュリティ Humanics Information Security with Consideration of Optimization through Technological, Management and User Aspects	浜松 Hamamatsu
※1 教授 Prof.	西村雅史 Masafumi Nishimura	音声認識、行動認識、高齢者・障害者支援のための音声技術応用 Speech Recognition, Sound-Based Behavior Recognition, Application of Speech Technologies for Supporting the Elderly and the Disabled	浜松 Hamamatsu
教授 Prof.	庭山雅嗣 Masatsugu Niwayama	生体計測、医用光学、近赤外分光法 Biomedical Measurement, Biomedical Optics, Near-infrared Spectroscopy	浜松 Hamamatsu
教授 Prof.	能見公博 Masahiro Nohmi	超小型衛星開発、衛星協調制御、宇宙ロボット、月惑星探査 Nano-satellite development, Satellites cooperative control, Space robotics, Lunar and planetary exploration	浜松 Hamamatsu
教授 Prof.	長谷川孝博 Takahiro Hasegawa	情報基盤、情報システム、情報セキュリティ Information Infrastructure, Information System, Information Security	浜松 Hamamatsu
教授 Prof.	前田恭伸 Yasunobu Maeda	リスクマネジメント、リスクコミュニケーション、リスク情報システム Risk management, Risk communication, Risk information system	浜松 Hamamatsu
※2 教授 Prof.	三浦憲二郎 Kenjiro T. Miura	形状処理工学、コンピュータグラフィクス、画像処理、知的計測 Computer Aided Geometric Design, Computer Graphics, Image Processing, Intelligent Optical Measurement	浜松 Hamamatsu
教授 Prof.	道下幸志 Koji Michishita	高度情報化システムの雷害対策 Lightning Protection for Information-oriented and Computerized System	浜松 Hamamatsu
教授 Prof.	峰野博史 Hiroshi Mineno	知的IoTシステム、コンシューマデバイス&システム、農業AI Intelligent IoT System, Consumer Device & System, Agricultural Artificial Intelligence	浜松 Hamamatsu
教授 Prof.	宮崎真 Makoto Miyazaki	認知・脳科学、心理物理学、スポーツ科学 Cognitive and Brain Sciences, Psychophysics, Sport Sciences	浜松 Hamamatsu
教授 Prof.	宮崎佳典 Yoshinori Miyazaki	数値シミュレーション、e-Learning、数学&英語教育に応用したソフトウェア制作 Numerical Simulation, e-Learning, Software Development on Math & English Education	浜松 Hamamatsu
教授 Prof.	宮崎倫子 Rinko Miyazaki	遅れを持つ微分方程式の定性論 Qualitative theory of delay differential equations	浜松 Hamamatsu
教授 Prof.	毛利出 Izuru Mori	非可換代数幾何学 Noncommutative Algebraic Geometry	静岡 Shizuoka

担当教員 Academic Staff		教育研究分野 Research Area	所属 キャンパス
教授 Prof.	和田 忠 浩 Tadahiro Wada	無線通信システム、無線ネットワーク、誤り訂正符号 Wireless Communication Systems, Wireless Networks, Error Correction Codes	浜松 Hamamatsu
准教授 Assoc.Prof.	一ノ瀬 元 喜 Genki Ichinose	複雑系, ネットワーク科学, 進化ゲーム Complex System, Network Science, Evolutionary Games	浜松 Hamamatsu
准教授 Assoc.Prof.	伊 藤 友 孝 Tomotaka Ito	ロボット制御, 制御工学, 福祉工学, 人間支援 Robotics, Control Engineering, Welfare technology, Human support	浜松 Hamamatsu
准教授 Assoc.Prof.	臼 杵 深 Shin Usuki	ナノ・マイクロ領域における3Dインプロセス計測とモデル化 Three dimensional in-process measurement and geometric modeling for the nano-micro manufacturing industry	浜松 Hamamatsu
准教授 Assoc.Prof.	大 木 哲 史 Tetsushi Oki	情報セキュリティ、監視社会とプライバシー、情報社会における本人性 Information Security, Privacy and Surveillance society, Identity Science	浜松 Hamamatsu
准教授 Assoc.Prof.	大 本 義 正 Yoshimasa Ohmoto	ヒューマンエージェントインタラクション、インタラクションデザイン、人間の内部状態推定 Human-Agent Interaction, Interaction Design, Human State Estimation	浜松 Hamamatsu
准教授 Assoc.Prof.	尾 張 正 樹 Masaki Owari	量子情報、量子制御、量子計算 Quantum Information, Quantum Control, Quantum Computation	浜松 Hamamatsu
准教授 Assoc.Prof.	甲 斐 充 彦 Atsuhiko Kai	音声情報処理(音声認識, 音声言語インタフェース), パターン情報処理 Speech Information Processing (Speech Recognition System, Spoken Language Interface), Pattern Information Processing	浜松 Hamamatsu
准教授 Assoc.Prof.	狩 野 芳 伸 Yoshinobu Kano	自然言語処理, テキストマイニング, 人工知能, 対話システム Natural Language Processing, Text Mining, Artificial Intelligence, Dialog System	浜松 Hamamatsu
准教授 Assoc.Prof.	木 谷 友 哉 Tomoya Kitani	コンピュータネットワーク, 高度交通システム, 二輪車情報学 Computer Networks, Intelligent Transport Systems, Bikeinformatics	浜松 Hamamatsu
准教授 Assoc.Prof.	小 林 祐 一 Yuichi Kobayashi	ロボット制御・行動計画, センサ情報処理, 画像処理, 無人車両 Robotics, Control and Motion Planning of Robot, Sensor Information Processing, Image Processing, Unmanned Vehicle	浜松 Hamamatsu
准教授 Assoc.Prof.	立 蔵 洋 介 Yosuke Tatekura	音情報処理(音場制御・再生, 音声強調, 音源分離) Speech and Acoustic Information Processing (Sound Field Control and Reproduction, Speech Enhancement, Sound Source Separation)	浜松 Hamamatsu
准教授 Assoc.Prof.	福 田 直 樹 Naoki Fukuta	マルチエージェントシステム, モバイルエージェント, セマンティックウェブ Multi-Agent Systems, Mobile Agents, Semantic Web	浜松 Hamamatsu
准教授 Assoc.Prof.	保 坂 哲 也 Tetsuya Hosaka	幾何学的群論 Geometric Group Theory	静岡 Shizuoka
准教授 Assoc.Prof.	MEJIA Diego	数理論理学、強制法理論および実数直線上の組合せ論 Mathematical Logic, Forcing theory and combinatorics of the real line	静岡 Shizuoka
准教授 Assoc.Prof.	森 田 純 哉 Junya Morita	認知モデリング, インタラクティブシステム, 知的認知支援, 生理/行動データ分析 Cognitive Modeling, Interactive System, Intelligent Cognitive Support, Physio-Behavioral data analysis	浜松 Hamamatsu

担当教員 Academic Staff	教育研究分野 Research Area	所属 キャンパス
准教授 Assoc.Prof. 森田 健 Takeshi Morita	素粒子論、超弦理論、重力理論、理論物理 Theoretical Particle Physics, Superstring, Gravity, Theoretical Physics	静岡 Shizuoka
准教授 Assoc.Prof. 山本 祐輔 Yusuke Yamamoto	情報検索、情報の信憑性、態度・行動変容のインタラクション、人と情報のエコシステム Information Retrieval, Information Credibility, Interaction Design for Persuasion, Human-Information Technology Ecosystem	浜松 Hamamatsu
准教授 Assoc.Prof. 山本 泰生 Yamamoto Yoshitaka	データマイニング、ビッグデータ処理、人工知能基礎 Data Mining, Big Data Processing, Foundations of Artificial Intelligence	浜松 Hamamatsu
准教授 Assoc.Prof. 依岡 輝幸 Yorioka Teruyuki	数理論理学、強制法理論およびアレフ1上の組合せ論 Mathematical Logic, Forcing theory and combinatorics on the first uncountable cardinal	静岡 Shizuoka
講師 Lecturer 石川 翔吾 Shogo Ishikawa	認知症情報学、人工知能、高齢社会デザイン Computer science and technology for human cognitive disorder, Artificial intelligence, Aging society design	浜松 Hamamatsu
講師 Lecturer 沖田 善光 Yoshimitsu Okita	機能性食品によるヒトの生理機能の計測・解析、健康科学 Physiological Measurement and Analysis for the Functional Foods and Drinks, Health Science	浜松 Hamamatsu
講師 Lecturer 遠山 紗矢香 Sayaka Tohyama	認知科学、協調学習、プログラミング教育、STEM/STEAM教育 Cognitive science, Collaborative learning, Programming/Coding education, STEM/STEAM education	浜松 Hamamatsu

## 環境・エネルギーシステム専攻

Department of Environment and Energy System

※1: 令和5年3月退職予定/Scheduled to retire in March 2023

※2: 令和6年3月退職予定/Scheduled to retire in March 2024

※3: 令和7年3月退職予定/Scheduled to retire in March 2025

担当教員 Academic Staff	教育研究分野 Research Area	所属 キャンパス
※3 教授 Prof. 大岩孝彰 Takaaki Oiwa	精密機械システム, 精密機構, 精密計測 Precision Machine System, Precision Mechanism and Precision Measurement	浜松 Hamamatsu
教授 Prof. 川本竜彦 Tatsuhiko Kawamoto	沈み込み帯流体学, 地質学, 鉱物科学 Theory of subduction-zone fluids, Geology, Mineralogical Science	静岡 Shizuoka
教授 Prof. 北村晃寿 Akihisa Kitamura	古海洋学, 古生物学, 第四紀学 Paleoceanography, Paleontology, Quaternary Research	静岡 Shizuoka
教授 Prof. 木村浩之 Hiroyuki Kimura	地球微生物学, 環境ジェノミクス, 新エネルギー創成 Geomicrobiology, Environmental Genomics, Novel Energy Production	静岡 Shizuoka
※2 教授 Prof. 金原和秀 Kazuhide Kimbara	環境生物工学, 微生物利用学 Environmental Biotechnology, Applied Microbiology	浜松 Hamamatsu
教授 Prof. 桑原不二郎 Fujio Kuwabara	熱流動における輸送現象 Transport Phenomena Associated with Heat and Fluid Flow	浜松 Hamamatsu
教授 Prof. 孔昌一 Chang Yi Kong	超臨界流体工学, 熱物性, ナノ炭素材料 Supercritical Fluids, Thermophysical Properties, Carbon Nanomaterials	浜松 Hamamatsu
教授 Prof. 佐藤慎一 Shinichi Sato	現生古生態学, 保全古生物学 Actuopaleoecology, Conservation Paleobiology	静岡 Shizuoka
教授 Prof. 真田俊之 Toshiyuki Sanada	流体工学, 混相流, 洗浄 Fluids Engineering, Multiphase Flow, Cleaning	浜松 Hamamatsu
教授 Prof. 島村佳伸 Yoshinobu Shimamura	材料力学, 複合材料工学 Mechanics of Materials, Composite Materials	浜松 Hamamatsu
教授 Prof. 塚越哲 Akira Tsukagoshi	多様性生物学, 進化古生物学 Biodiversity, Paleobiology	静岡 Shizuoka
※3 教授 Prof. 野口敏彦 Toshihiko Noguchi	パワーエレクトロニクス Power Electronics	浜松 Hamamatsu
教授 Prof. 早川邦夫 Kunio Hayakawa	塑性加工学, 損傷力学, 塑性加工プロセスシミュレーション, プロセス・トライボロジー Material Forming Processing, Damage Mechanics, Numerical analysis on forming process, Tribology on forming process	浜松 Hamamatsu
教授 Prof. 福原長寿 Choji Fukuhara	反応工学, 触媒化学, 物理化学 Reaction Engineering, Catalysis Chemistry, Physical Chemistry	浜松 Hamamatsu

担当教員 Academic Staff	教育研究分野 Research Area	所属 キャンパス
教授 Prof. 藤原 健智 Taketomo Fujiwara	微生物生化学, 環境微生物学 Microbial Biochemistry, Environmental Microbiology	静岡 Shizuoka
教授 Prof. 二又 裕之 Hiroyuki Futamata	応用環境微生物学、微生物生態学 Applied Environmental Microbiology, Microbial Ecology,	浜松 Hamamatsu
教授 Prof. Mobedi Moghtada	数値伝熱学、伝熱促進、蓄熱, Numerical heat transfer, heat transfer promotion, heat storage	浜松 Hamamatsu
教授 Prof. 守田 智 Satoru Morita	非線形動力学、数理生物学、複雑ネットワーク Nonlinear Dynamics, Mathematical Biology, Complex Networks	浜松 Hamamatsu
教授 Prof. 王 権 Wang Quan	リモートセンシング学、生態モデル、環境変動 Remote Sensing, Ecological Modeling, Environmental Change	静岡 Shizuoka
准教授 Assoc.Prof. 朝間 淳一 Junichi Asama	磁気軸受, ベアリングレスモータ, パワーメカトロニクス Magnetic Bearing, Bearingless Motor, Power Mechatronics	浜松 Hamamatsu
准教授 Assoc.Prof. 石橋 秀巳 Hidemichi Ishibashi	火成岩岩石学, マグマ物性, 火山学 Igneous petrology, Physical properties of magma, Volcanology	静岡 Shizuoka
准教授 Assoc.Prof. 大矢 恭久 Yasuhisa Oya	核融合炉化学、核エネルギーシステムの化学、 $\beta$ 放射体の化学 Chemistry for nuclear fusion and nuclear energy system, Chemistry for beta-emission nuclides	静岡 Shizuoka
准教授 Assoc.Prof. 岡島 いづみ Idzumi Okajima	超臨界流体工学, 化学工学 Supercritical Fluids, Chemical Engineering	浜松 Hamamatsu
准教授 Assoc.Prof. 菊池 将一 Shoichi Kikuchi	材料強度学, 金属疲労 Strength and Fracture of Materials, Fatigue of Metals	浜松 Hamamatsu
准教授 Assoc.Prof. 新谷 政己 Masaki Shintani	複合微生物集団における可動性遺伝因子の挙動に関する研究 Analyses of behaviors of mobile genetic elements in microbial consortia.	浜松 Hamamatsu
准教授 Assoc.Prof. 菌部 礼 Sonobe Rei	リモートセンシング Remote Sensing	静岡 Shizuoka
准教授 Assoc.Prof. Dur Gaël	zooplankton, response, global change, pollution	静岡 Shizuoka
准教授 Assoc.Prof. 平内 健一 Kenichi Hirauchi	数物系科学 - 地球惑星科学 - 地質学 Mathematical and physical sciences - Earth and planetary science - Geology	静岡 Shizuoka
准教授 Assoc.Prof. 藤井 朋之 Fujii Tomoyuki	材料強度学 Strength and Fracture of Materials	浜松 Hamamatsu
准教授 Assoc.Prof. 松井 信 Makoto Matsui	高温気体力学, プラズマ分光学, 宇宙推進工学, Space Propulsion System High Temperature Gas Dynamics, Plasma Spectroscopy	浜松 Hamamatsu

担当教員 Academic Staff	教育研究分野 Research Area	所属 キャンパス
准教授 Assoc.Prof. 三井雄太 Yuta Mitsui	固体地球変動の物理、地震・火山性地殻変動 Solid Earth Geophysics, Seismological and Volcanological deformation	静岡 Shizuoka
准教授 Assoc.Prof. 本澤政明 Motozawa Masaaki	流体工学, 非ニュートン流体, 流体機能, 流動制御 Fluid engineering, Non-Newtonian fluid, Fluid function, Flow control	浜松 Hamamatsu
准教授 Assoc.Prof. 矢永誠人 Makoto Yanaga	放射性核種の環境動態, 放射線・化学物質影響科学 Dynamics of Radionuclides, Risk Sciences of Radiation and Chemicals	静岡 Shizuoka
准教授 Assoc.Prof. 渡部綾 Watanabe Ryo	触媒化学, 反応工学, 物理化学 Catalysis Chemistry, Reaction Engineering, Physical Chemistry	浜松 Hamamatsu
講師 Lecturer 近田拓未 Takumi Chikada	核融合炉材料化学、先進エネルギーシステムの化学、水素同位体の化学 Fusion reactor material chemistry, Chemistry for advanced energy systems, Chemistry for hydrogen isotopes	静岡 Shizuoka



## バイオサイエンス専攻

Department of Bioscience

※1: 令和5年3月退職予定/Scheduled to retire in March 2023

※2: 令和6年3月退職予定/Scheduled to retire in March 2024

※3: 令和7年3月退職予定/Scheduled to retire in March 2025

担当教員 Academic Staff	教育研究分野 Research Area	所属 キャンパス
教授 Prof. 栗井光一郎 Koichiro Awai	光合成生物の脂質生理学 Physiological functions of lipids in photosynthetic organisms	静岡 Shizuoka
教授 Prof. 丑丸敬史 Takashi Ushimaru	細胞周期, 細胞成長, ストレス応答, プロテオミクス Cell Cycle, Cell Growth, Stress Response and Proteomics	静岡 Shizuoka
教授 Prof. 加藤竜也 Tatsuya Kato	効率的組換えタンパク質生産を可能にするカイコバイオテクノロジー Silkworm Biotechnology for efficient recombinant protein production	静岡 Shizuoka
教授 Prof. 木村洋子 Yoko Kimura	タンパク質の品質管理機構の研究 Analyses of Protein Quality Control	静岡 Shizuoka
教授 Prof. 小谷真也 Shinya Kodani	抗生物質生産の研究 Research on antibiotic production	静岡 Shizuoka
教授 Prof. 鈴木雅一 Masakazu Suzuki	脊椎動物の生理機構および環境適応機構, 内分泌器官の形態形成と機能 Physiology of vertebrates: molecular and environmental considerations, Morphogenesis and function of endocrine glands	静岡 Shizuoka
教授 Prof. 竹之内裕文 Hirobumi Takenouchi	哲学, 倫理学, 死生学 philosophy, ethics, thanatology	静岡 Shizuoka
教授 Prof. 徳元俊伸 Toshinobu Tokumoto	卵成熟・排卵の分子メカニズムの解明 Molecular Mechanism of Oocyte Maturation and Ovulation	静岡 Shizuoka
教授 Prof. 轟泰司 Yasushi Todoroki	タンパク質の機能を制御する小分子の創製 Development of Small Molecule Modulators of Protein Function	静岡 Shizuoka
※3 教授 Prof. 富田因則 Motonori Tomita	ゲノムワイド関連解析による米麦の遺伝子探索と遺伝的改変 Gene Identification and Genetic Modification of Rice and Wheat by Genome-Wide Association Study	静岡 Shizuoka
※2 教授 Prof. 朴龍洙 Enoch Y. Park	生物機能の革新的応用によるナノマテリアルの創製 Development of Nanomaterials by Application of Innovative Biological Function	静岡 Shizuoka
教授 Prof. 原正和 Masakazu Hara	植物における環境ストレスタンパク質 Study on Environmental Stress Protein in Plants	静岡 Shizuoka
教授 Prof. 平井浩文 Hirofumi Hirai	白色腐朽担子菌の有するリグニン分解能及び環境汚染物質分解能に関する生化学及び分子生物学的研究 Biochemical and Molecular Biological Studies on Degradation of Lignin and Xenobiotics by White-rot Fungi	静岡 Shizuoka

担当教員 Academic Staff	教育研究分野 Research Area	所属 キャンパス
教授 Prof. 本橋 令子 Reiko Motohashi	植物のプラスチドの機能解明、分子育種 Functional analyses of plastids in plants, Molecular breeding	静岡 Shizuoka
※1 教授 Prof. 森田 達也 Tatsuya Morita	ルミナコイド(難消化性糖類)の栄養生理作用 Physiology of Luminacoids (Dietary Indigestible Components)	静岡 Shizuoka
※2 教授 Prof. 山崎 昌一 Masahito Yamazaki	生体膜および膜タンパク質・細胞骨格の生物物理学 Biophysics of Biomembranes, Membrane Proteins, and Cytoskeleton	静岡 Shizuoka
教授 Prof. 山本 歩 Ayumu Yamamoto	ゲノム動態の分子メカニズム Molecular mechanism of genome dynamics	静岡 Shizuoka
准教授 Assoc.Prof. 大吉 崇文 Takanori Oyoshi	疾患に関するDNAやRNAが形成する局所構造の機能解明 Functions of DNA and RNA local conformations related with disease	静岡 Shizuoka
准教授 Assoc.Prof. 木 寄 暁子 Akiko Kozaki	植物環境応答の分子メカニズム Molecular mechanism of plant responded to environmental factors.	静岡 Shizuoka
※3 准教授 Assoc.Prof. 茶山 和敏 Kazutoshi Sayama	新生児の免疫機能に対する母乳中の免疫関連物質の役割に関する研究、種々の疾病に対する食品成分の生理学的機能性 Role of immunochemical components in milk on immune function in neonates, Physiological function of food constituents to various diseases	静岡 Shizuoka
准教授 Assoc.Prof. 崔 宰熏 Jae-Hoon Choi	植物成長調節物質に関する化学生物学的研究 Chemical and biological studies on plant-growth regulators	静岡 Shizuoka
准教授 Assoc.Prof. 森 智夫 Toshio Mori	木材腐朽菌の機能、および木材腐朽菌と細菌間相互作用に関する基礎的・応用的研究 Basic and application studies on function of wood rot fungi and wood-rot fungal-bacterial interactions.	静岡 Shizuoka
准教授 Assoc.Prof. 村田 健臣 Takeomi Murata	生理活性糖鎖分子の構造と機能に関する化学生物学的研究 Chemical and Biological Studies on the Structure and Functions of Physiologically Active Glycans and Glycoconjugates	静岡 Shizuoka
講師 Lecturer 田代 陽介 Yosuke Tashiro	微生物間相互作用の基礎ならびに応用研究 Basic and Applicative Studies on Microbial Interactions	浜松 Hamamatsu
助教 Assist.Prof. 宮崎 剛 亜 Takatsugu Miyazaki	糖質関連酵素の構造生物学的研究および応用研究 Structural Biology and Application of Carbohydrate-active Enzymes	静岡 Shizuoka