

静岡大学大学院自然科学系教育部
(創造科学技術大学院)
(後期3年博士課程)

学 生 募 集 要 項

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

April 2023
Additional Admission

一般入試

社会人入試

外国人留学生入試

GENERAL SELECTION

SELECTION FOR WORKING STUDENTS

SELECTION FOR INTERNATIONAL STUDENTS



静 岡 大 学

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>

Admissions Policy of the Graduate School of Science and Technology, Educational Division

【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 that enable 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.

【The type of student 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)

General Course, Course for Working Students, 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 photons and electrons, 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, measurement 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, CO₂ 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 Biosciences》

This 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 in March 2023.

3. Applicant Eligibility and Requirements

One of the following must be met:

- (1) Earned a master's degree or a professional degree.
- (2) Expected to complete a master's degree or a professional degree by March 31, 2023.
- (3) Earned or expect to complete a master's degree or professional degree outside of Japan.
- (4) Earned or expect to complete a master's degree or a degree equal to a professional degree from a correspondence program of a foreign school in Japan by March 31, 2023.
- (5) Earned or expect to complete 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, such as a postgraduate course in a foreign country, by March 31, 2023.
The postgraduate course described above must be from an educational institution accredited by the education system in the country where it is located.
- (6) Have qualifications approved by the Ministry of Education, Culture, Sports, Science and Technology of Japan (see Remark 2).
- (7) Recognized by our graduate school as possessing scholastic aptitude equal to or above that of a master's degree holder, as determined through an evaluation of admission qualification, and be over 24 years of age by March 31, 2023 (born before April 1, 1999).
- (8) Completed a United Nations University master's degree program, established on December 11, 1972 per a UN General Assembly resolution that provides special measures law Article 1, Clause 2 (No. 72 in 1976) outlining an agreement of association with Japan in reference to the United Nations university headquarters.
- (9) Passed the qualifying examination, completed the curricula in a university abroad, or passed an examination equivalent to the qualifying examination and possess a level of academic aptitude equal to or above a master's degree holder.

(Remark 1) Applicants who intend to apply in accordance with Qualification (6) or (7) are required to submit to an evaluation of qualifications before submitting application documents.

See **14. Evaluation of Applicant Qualifications** on page 8

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

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

If you have any questions, please contact the Doctoral Program Graduate School Unit (see **17. Inquiries**).

4. Admission Capacity

| Department | Admission Capacity | General Selection | Selection for Working Students | Selection for International Students |
|---|--------------------|-------------------|--------------------------------|--------------------------------------|
| Nanovision Technology | 10 | A few people | A few people | A few people |
| Optoelectronics and Nanostructure Science | 9 | 〃 | 〃 | 〃 |
| Information Science and Technology | 11 | 〃 | 〃 | 〃 |
| Environment and Energy Systems | 7 | 〃 | 〃 | 〃 |
| Bioscience | 8 | 〃 | 〃 | 〃 |
| Total | 45 | 〃 | 〃 | 〃 |

Refer to the list of Supervising Professors and Research-and-Education Subjects in the Graduate School of Science and Technology, Educational Division provided at the end of this booklet. For a better understanding of our graduate school, we strongly recommend visiting our web page at <https://gsst.shizuoka.ac.jp/?lang=en>

5. Selection Procedure

Applicants will be selected based on a presentation of the applicant's research record/master's thesis, oral exam and application documents. Applicants are required to give a presentation regarding his/her master's thesis or research record and to take an oral exam about the presentation and subjects that 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 this research. A liquid crystal display projector is available; however, applicants should bring a personal computer, including any necessary software and hardware.

- General Selection:
Qualification based on achievement tests, oral examination, and application documents.
- Selection for Working Students and International Students:
Qualification based on achievement tests, oral examination, and application documents.

6. Date of Examination and Place

| Date | Time | Subject | Location |
|--|---|------------------|--|
| January 20 (Friday) 2023 (The date of the examination will be decided in consultation with the applicant.) | Details will be provided to each applicant. | Oral examination | Hamamatsu Campus 3-5-1 Johoku, Naka-ku, Hamamatsu, Shizuoka Shizuoka Campus 836 Ohya, Suruga-ku, Shizuoka |

*The examination will be held on the campus where the intended supervisor works.

Details will be provided to each applicant.

*For international students who wish to take the entrance exam before coming to Japan, as described in the special screening provision, a mutually convenient date and time will be arranged, and the interview will be conducted over the Internet .

Transportation

Hamamatsu Campus:

From Bus Terminal at JR Hamamatsu Station's North Exit, take any bus at Bus Stop No15 or 16 and get off at Shizuoka Daigaku Bus Stop. (approximately 20 minutes)

Shizuoka Campus:

From Bus Stop 8B at JR Shizuoka Station's North Exit, take the Miwa Oya Line (route 35) to "Shizuoka University" or routes 34, 36 bound for "Higashi Ohya"(via Shizuoka Univ.) or routes 37, 38 bound for "Museum of Natural and Environmental History, Shizuoka"(via Shizuoka Univ.). Get off at Shizuokadaigaku or Shizudaikatayama Bus Stop. (approximately 25 minutes).

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 applicant's undergraduate university
- (5) Official Certificate of Achievement for graduate studies issued by the applicant's graduate school
- (6) Official Certificate of Graduation issued by the applicant's graduate school or an official letter of certification from the graduate school at which the applicant is currently enrolled that states the expected graduation date. Applicants intending to apply in accordance with Qualifications (6) or (7) must submit academic records certified by the university from which the applicant most recently graduated. (See **14. Evaluation of Applicant Qualifications** on page 8.)
- (7) Applicants intending to apply in accordance with Qualifications (1), (3), (4), (5) or (8) and who have a master's or professional degree must submit a copy or summary of their master's thesis in English on 2-pages of A4-size paper. Applicants who have a record of research should append a Summary of Research and Technological Achievements in English. Complete the form provided (maximum 1,200 words). Applicants intending to apply in accordance with Qualifications (2) or (4) and who are expected to complete a master's 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, patents, and similar documents, if any, should also be submitted.
- (8) Permission for examination issued by the chief (or other responsible person) of the applicant's place of employment if he/she works for a public office or company. Complete the form provided.
- (9) A self-addressed stamped envelope for results notification. Write the applicant's name, address and ZIP code on a No. 3 envelope (12.0 cm x 23.5 cm) with 344 Japanese Yen (JPY) postage.
- (10) Application fee: 30,000 JPY.
Transfer 30,000 JPY to the Shizuoka University bank account. Applicants must contact the Doctoral Program Graduate School Unit for the account number (see **17. Inquiries**). Please retain the transfer certificate until you receive a Certificate of Application Fee Payment from Shizuoka University.
Paid test fees cannot be refunded except under the some circumstances, regardless of reason. (see **16. Entrance Exam Fee Refund Policy**). Students expected to complete a master's program or professional degree course at the Graduate School of Shizuoka University in March 2023 are not required to pay the application fee.
An application fee is not required for those applying in accordance with Qualifications (6) or (7). Evaluation results will be sent to the applicant by December 1 (Thursday), 2022. Applicants deemed eligible by the qualification evaluation are required to pay the fee upon selection. Instructions for paying the fee will be included with the results notification.
- (11) Return Seal. Provide an address at which to receive the Examination Card and the results notification on the form provided.
- (12) Working student applicants are required to submit a Record of Research and Technological Achievements. Complete the form provided.
A letter of recommendation written by the boss (or other responsible person) of the applicant's place of employment, if any.
- (13) A copy of the applicant's passport clearly showing the applicant's name, photo, birth date, sex, and signature (INTERNATIONAL STUDENTS only).

8. Application Period

- (1) Applicants who intend to apply in accordance with Qualifications (1), (2) or (9) and those who have met Qualifications (6) or (7) according to the qualification evaluation:

Application period: December 2 (Friday), 2022 to December 8 (Thursday), 2022.

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

Application period: November 17 (Thursday), 2022 to November 24 (Thursday), 2022.

Early submission is required for qualifications to be evaluated.

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

10. Submission Procedure

Applicants must collect the documents listed above and send them by REGISTERED MAIL (such as EMS) or bring them to the Doctoral Program Graduate School Unit at the address above.

On the front of the envelope, please write clearly in red ink: Application Documents for the Graduate School of Science and Technology, Education Division.

11. Announcement of Results

At 10:00 on February 8 (Wednesday), 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 in accordance with the dates below. Instructions for the admission procedure will be sent.

- (1) Registration Period and Payment:

Registration Period: Middle to late March 2023. Details will be provided.

- (2) Method of Registration: Mail to the Doctoral Program Graduate School Unit (see **9. Address for Submission**). Notice of Payment:

a. Admission fee must be paid while completing the admission procedures.

b. Students expected to complete a master's program or professional degree course of the Graduate School of Shizuoka University in March 2023 are not required to pay the admission fee.

- (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 the school after enrolling at any time until 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 circumstances.

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 and System for the Prolonged Course Period

a. Exception from Payment of Admission and Tuition Fees

An exception for admission payment and tuition fees may be made for low-income students. The details of this system will be provided prior to the admission process. If there are any questions, please contact to the Doctoral Program Graduate School Unit (see **17. Inquiries**).

b. System for the Prolonged Course Period

This system is applicable to a working student who feels that he/she may not be able to finish the course in three years due to work commitments. Based on the student's application, he/she may study for a period of six years. Tuition fees may be specially considered when the system is accepted. Applications to the system are evaluated by the university. The details of this system will be provided prior to the admission process. If there are any questions, please contact to the Doctoral Program Graduate School Unit (see **17. Inquiries**).

13. Important Remarks

- (1) Students expected to complete a master's program or professional degree course of the Graduate School of Shizuoka University in March 2023 must complete the admissions procedures in spite of Notice of Payment 12. (2) b.
- (2) Documents must be submitted via registered mail. Late applications will not be accepted. Documents must arrive before the application deadline.
- (3) Incomplete applications will not be accepted. Submitted documents will not be returned. Be careful to avoid any omissions or errors in writing. Any changes after document submission will not be accepted; however, the Doctoral Program Graduate School Unit should be informed of any change of address.
- (4) Requests for an Application Form by mail should be sent to the Doctoral Program Graduate School Unit (see **9. Address for Submission of Application Documents**). "Application Form for the Graduate School of Science and Technology, Education Division" should be written clearly in red on the envelope. A self-addressed No. 2 envelope (33.2 cm × 24.0 cm) should be enclosed with the request.
- (5) Applicants who intended to apply in accordance with Qualifications (3), (4), (5), or (8) must submit the required documents prior to the application period as mentioned above, for qualifying and checking the application documents (see **8. Application Period (2)**).

14. Evaluation of Applicant Qualifications

Candidates applying in accordance with Qualifications (6) or (7) are required to submit to an evaluation of their scientific capabilities. The evaluation is conducted to assess an applicant's scholastic aptitude based on his/her application documents.

(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 university.
- c. Official Certificate of Achievement from graduate school issued by the most recently attended university.
- d. Summary of Research and Technological Achievements. Complete the form provided.
- e. Record of Research and Technological Achievements. Complete the provided form.
- f. Copies of any academic research publications, academic presentations, patents, and similar documents, if any, should also be submitted.
- g. A self-addressed stamped envelope for notification of results. Write the applicant's name, address and ZIP code on a No. 3 envelope (12.0 cm x 23.5 cm).

(2) Application Period

November 17 (Thursday), 2022 to November 24 (Thursday), 2022.

Applications must be submitted by the deadline by registered mail to the Doctoral Program Graduate School Unit (see **9. Address for Submission of Application Documents**). Late applications and incomplete documents will not be accepted. Be careful to avoid omissions or errors in writing.

(3) Results Notification

Results will be sent by mail to all applicants by December 1 (Thursday), 2022.

(4) Application Period and Application Documents

Applicants who satisfy application requirements according to the qualification evaluation must complete the submission procedures described in sections **7. Application Documents** through **10.**

Submission Procedure. The following materials are required and must be submitted by mail. Instructions for submission will be included with the results notification. Note that the application period is open from **December 2 (Friday), 2022 to December 8 (Thursday), 2022.**

- a. Application Form for Entrance Examination. Complete the form provided.
- b. Examination card and photo ID. Complete the form provided and attach a photo taken within 3 months of the date of submission.
- c. Research Plan. Complete in the form provided.
- d. Permission for examination written by the boss (or other responsible person) of the applicant's place of employment if he/she works for a public office or company. Complete the form provided.
- e. A letter of recommendation written by the boss (or other responsible person) of the applicant's place of employment, if any.
- f. Application Fee: 30,000 JPY.
- g. Return Seal. Provide an address to receive results notification on the form provided.
- h. A copy of the applicant's passport that clearly shows the applicants' name, photo, birth date, sex, and signature (INTERNATIONAL STUDENTS only).
- i. A self-addressed envelope to receive results: provide a return address (the applicant's name, address and ZIP code) on a No. 3 envelope (12.0 cm x 23.5 cm).

15. Special Exam Procedures for Applicants with Disabilities

Applicants with disabilities that require special consideration for taking exams and attending school must meet with the school for an interview prior to applying for admission. The applicant will be contacted once a determination is made based on the interview. We recommend that all new student applicants with disabilities visit the campus before applying to examine the school facilities and campus in person.

16. Entrance Exam Fee Refund Policy

Paid test fees will only be refunded under the circumstances and in accordance with the procedures outlined below.

- (1) Refunds can be issued only under the following circumstances:
 - ① The applicant does not apply to the school after 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 not satisfying necessary conditions.
- (2) Amount to be refunded:

The amount overpaid or the total amount will be refunded to the applicant per the applicant's request.
- (3) Requesting a refund
Students must submit written refund requests 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 requests **MUST BE RECEIVED** by the Shizuoka University Graduate School of Science and Technology no later than Tuesday, February 28, 2023.

In the case of ③, a copy of the refund request form will be included with your returned documents. Please complete and return by mail.

Applicants are responsible for all bank handling fees.

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 be Refunded (¥30,000)
8. Bank Account Transfer Details
 - *Bank Name *Branch Name
 - *Type of Account *Account Number
 - *Name on Account
 - *If name on account differs from applicant's, write account holder's relationship to applicant:

(4) Regarding Applicants Affected by large-scale disasters.

We are taking special measures for applicants who were affected by large-scale disasters in order to lessen their financial burden and encourage chances for university attendance. These applicants can receive special consideration for refunds. Please refer to the following URL for information (Japanese only).

大規模災害で被災した入学志願者に対する入学検定料の特別措置について
<https://www.shizuoka.ac.jp/nyushi/guide/tokubetsusochi>

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

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

Applicants who have not been accepted can request examination results from April 17 (Monday), 2023 through May 17 (Wednesday), 2023.

18. Notes

Personal information submitted for the application is used only for the purposes outlined below 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 | (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

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| 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

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| 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、 β 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 |