

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 2018 Admission  
October 2017 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 FOREIGN STUDENTS



静 岡 大 学

GRADUATE SCHOOL OF SCIENCE AND TECHNOLOGY  
SHIZUOKA UNIVERSITY  
SHIZUOKA, JAPAN

## **Vision**

### ***Freedom and enlightenment. Creation of the future.***

By promoting the highest standard of education and creative research, Shizuoka University makes a difference and makes its presence felt in close collaboration with local communities and the greater society. For a detailed overview of our commitment and vision for the future, refer to Shizuoka University's PDF-format brochure and statement available at <http://www.shizuoka.ac.jp/english/outline/vision/mission/index.html>.

## **Mission**

### 1. Teaching for the future

Shizuoka University will provide students with in-depth knowledge that meets world-class standards so that they can become responsible citizens of tomorrow who are prepared to meet complex international challenges with an indefatigable spirit and concern for all humanity.

### 2. Commitment to research

Shizuoka University strives to contribute to worldwide peace and human happiness through the pursuit of excellence in humanities and biological and physical sciences.

### 3. Contribution to the local community

Shizuoka University recognizes the importance of having strong bonds with the local community and will explore innovative methods for becoming an indispensable resource in reinventing community life.

# **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 foreign 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 2018 Admission)**

General Course, Course for Working Students, Course for Foreign 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, 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 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. 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, 2018.
- (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, 2018.
- (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, 2018.  
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, 2018 (born before April 1, 1994).
- (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 **13. 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 Graduate School Office (see **16. Information**).

## 3. Admission Capacity

Department	Admission Capacity	General Selection	Selection for Working Students	Selection for Foreign Students
Nanovision Technology	13	13	A few people	A few people
Optoelectronics and Nanostructure Science	12	12	〃	〃
Information Science and Technology	10	10	〃	〃
Environment and Energy Systems	7	7	〃	〃
Bioscience	8	8	〃	〃
Total	50	50	〃	〃

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

<http://gsst.shizuoka.ac.jp/en/>

#### 4. 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 Foreign Students:  
Qualification based on achievement tests, oral examination, and application documents.

#### 5. Date of Examination and Place

Date	Time	Subject	Location
Tuesday, August 22, 2017	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 foreign 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 by SKYPE.

#### Transportation

##### Hamamatsu Campus:

From the North Exit of JR Hamamatsu Station, take a bus from stop No. 15 and get off at Shizuoka Daigaku (静岡大学) (approximately 20 minutes). Note that all line buses from stop No. 15 go to Shizuoka University.

##### Shizuoka Campus:

From the North Exit of JR Shizuoka Station, take the No. 8B Miwa-Ohya line and get off at the final stop, Shizuoka-Daigaku (静岡大学), or get off at Shizudai-Katayama (静大片山) (approximately 30 minutes).

#### 6. 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 **13. 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 362 Japanese Yen (JPY) postage.
- (10) Application fee: 30,000 JPY.  
Transfer 30,000 JPY to the Shizuoka University bank account. Applicants must contact the Graduate School Office for the account number (see **16. Information**). Please retain the transfer certificate until you receive a Certificate of Application Fee Payment from Shizuoka University. Students expected to complete a master's program or professional degree course at the Graduate School of Shizuoka University in March 2018 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 Thursday, July 13, 2017. 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).

## 7. Application Period

Application materials must be submitted by registered mail. All documents must arrive before the application deadline.

Application documents must be sent early enough to arrive by the deadline. Late applications and incomplete documents will not be accepted. Be careful to avoid omissions or errors in writing.

- (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: Tuesday, July 18, 2017 to Monday, July 24, 2017.**

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

**Application period: Monday, July 3, 2017 to Friday, July 7, 2017.**

Early submission is required for qualifications to be evaluated. If you have any questions, please contact the Graduate School Office (see **16. Information**).

## 8. Address for Submission of Application Documents

Graduate School Office, 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: endo.norihito@shizuoka.ac.jp

## 9. Submission Procedure

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

#### 10. Announcement of Successful Applicants

At 10:00 on Wednesday, September 6, 2017, the successful applicants' exam numbers will be posted on the public notice boards of the Faculty of Science, Shizuoka and the Research Institute of Electronics, Hamamatsu. Notification will also be sent by e-mail to all the applicants.

#### 11. 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 2018. Details will be provided.
- (2) Method of Registration: Mail to the Graduate School Office (see **8. 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 2018 are not required to pay the admission fee.
- (3) Admission Fee and Tuition  
Admission Fee: ¥282,000 (actual for 2017).  
Tuition: ¥535,800 for the year (¥267,900 for a semester) (actual for 2017).  
Note:
  - a. If tuition for the previous term has not been paid by admission day, it must be paid between April 1 and April 30, 2018.
  - b. If you need to withdraw from the school after enrolling at any time until March 31, 2018, 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 2018" prior to March 31, 2018, the additional amount (the difference between what you have already paid and the increased rate) shall be withdrawn from your designated account in October 2018.
- (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 Graduate School Office (see **16. Information**).
  - 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 Graduate School Office (see **16. Information**).

#### 12. Important Remarks

- (1) Students expected to complete a master's program or professional degree course of the Graduate School of Shizuoka University in March 2018 must complete the admissions procedures in spite of Notice of Payment 11. (3).
- (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 Graduate School Office should be informed of any change of address.
- (4) Requests for an Application Form by mail should be sent to the Graduate School Office (see **7. Address for Submission**). “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 section 7, note 2).

### 13. 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. If you have any questions, please contact the Graduate School Office (see **8. Address for Submission**).

#### (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

**Monday, July 3 to Friday, July 7, 2017.**

Applications must be submitted by the deadline by registered mail to the Graduate School Office (see **8. Address for Submission**).

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 Thursday, July 13, 2017.

#### (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 **Tuesday, July 18 to Monday, July 24, 2017**.

- 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).

#### 14. 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.

#### 15. 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 Wednesday, February 28, 2018.

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 Foreign 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 (we do not accept transfers to a postal account or Yuuchyo Bank)          \*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 the Tohoku Earthquake

We are taking special measures for applicants who were affected by Earthquakes 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).

[http://www.shizuoka.ac.jp/th\\_earthquake/eq\\_examin2014.html](http://www.shizuoka.ac.jp/th_earthquake/eq_examin2014.html)  
平成 28 年 (2016 年) 熊本地震で被災した入学志願者の入学検定料の特別措置について  
<http://www.shizuoka.ac.jp/nyushi/28kentei.pdf>

### 16. Information

Graduate School Office, Graduate School of Science and Technology, Shizuoka University,  
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TEL (+81)53-478-1350  
FAX (+81)53-478-1359  
E-MAIL: endo.norihito@shizuoka.ac.jp

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

**Applicants who have not been accepted can request examination results from Wednesday, November 15, 2017 through Friday, December 15, 2017.**

### 17. 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.

# **Student Admission Guide (October 2017 Admission)**

General Course, Course for Working Students, Course for Foreign 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 the department is to develop students' professional capabilities to innovate in future technologies and to participate in initiatives geared towards controlling material functions and interaction 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 application. 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 their academic ability.

### **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 Biosciences**

The department provides education and training to the students by conducting frontier studies in basic 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. Applicant Eligibility and Requirements

One of the following must be satisfied:

- (1) Earned a master's degree or a professional degree.
- (2) Expected to complete a master's degree or a professional degree by September 30, 2017.
- (3) Earned or expect to complete a master's degree or professional degree outside of Japan by September 30, 2017
- (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 September 30, 2017
- (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 September 30, 2017.  
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 who are over 24 years of age by September 30, 2017 (born before October 1, 1993).
- (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 Qualifications (6) or (7) are required to submit to an evaluation of qualifications before submitting application documents.

See “**13. Evaluation of Applicant Qualifications**” on page 17.

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

- ① Persons who have graduated from a university in Japan, have more than two years of experience working in universities or research institutions, and are recognized by our graduate school as having scholastic aptitude equal to or above that of a master's holder through an evaluation of qualifications.
- 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 are recognized by our graduate school as having scholastic aptitude equal to or above than that of a master's holder through an evaluation of qualifications.

If you have any questions, please contact the Graduate School Office (see **16. Information**).

### 3. Admission Capacity

Department	Admission Capacity	General Selection	Selection for Working Students	Selection for Foreign Students
Nanovision Technology	A few people	A few people	A few people	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 provided at the end of this booklet. For a better understanding of our graduate school, we strongly recommend visiting our website:

<http://gsst.shizuoka.ac.jp/en/>

#### 4. 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 about his/her master's thesis or research record and to take an oral exam about the presentation and the 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 Foreign Students:  
Qualification based on achievement tests, oral examination, and application documents

#### 5. Date of Examination and Place

Date	Time	Subject	Location
Tuesday, August 22, 2017	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 foreign 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 by SKYPE.

#### Transportation

##### Hamamatsu Campus:

From the North Exit of JR Hamamatsu Station, take a bus from stop No. 15 and get off at Shizuoka Daigaku (静岡大学) (approximately 20 minutes). Note that all line buses from stop No. 15 go to Shizuoka University.

##### Shizuoka Campus:

From the North Exit of JR Shizuoka Station, take the No. 8B Miwa-Ohya line and get off at the final stop, Shizuoka-Daigaku (静岡大学), or get off at Shizudai-Katayama (静大片山) (approximately 30 minutes).

#### 6. Application Documents

- (1) Application Form. Complete the form provided.
- (2) Examination card and photo ID. 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

- graduated most recently. (See **13. Evaluation of Applicant Qualifications** on page 17.)
- (7) Applicants intending to apply in accordance with Qualifications (1), (3), (4) or (5) and who have a master's degree 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 expect to complete a 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, patents, and similar documents, if any, should also be submitted.
  - (8) Permission for examination issued 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.
  - (9) A self-addressed stamped envelope to receive results notification. Write the applicant's name, address and ZIP code on a No. 3 envelope (12.0 cm x 23.5 cm) with 362 Japanese Yen (JPY) postage.
  - (10) Application Fee: 30,000 JPY.  
Transfer 30,000 JPY to the Shizuoka University bank account. Applicants must contact the Graduate School Office for the account number (see **16. Information**). Please retain the transfer certificate until you receive a Certificate of Application Fee Payment from Shizuoka University. Students expected to complete a master's program or professional degree course at the Graduate School of Shizuoka University in September 2017 are not required to pay the application fee.  
An application fee is not required for applicants applying in accordance with Qualifications (6) or (7). The results of the evaluation will be sent to the applicant by Wednesday, July 13, 2017. Applicants deemed eligible by the evaluation will be 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 that clearly shows the applicants' name, photo, birth date, sex, and signature (INTERNATIONAL STUDENTS only).

## 7. Application Period

Application materials must be submitted by registered mail. All documents must arrive before the application deadline.

Application documents must be sent early enough to arrive by the deadline. Late applications and incomplete documents will not be accepted. Be careful to avoid omissions or errors in writing.

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

**Application Period: Tuesday, July 18 to Monday, July 24, 2017.**

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

**Application Period: Monday, July 3 to Friday, July 7, 2017.**

Early submission is required for qualifications to be evaluated. If you have any questions, please contact the Graduate School Office (see **16. Information**).

## 8. Address for Submission of Application Documents

Graduate School Office, 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: endo.norihito@shizuoka.ac.jp

## 9. Submission Procedure

Applicants must collect the documents listed above and send them by REGISTERED MAIL (such

as EMS) or bring them to the Graduate School Office at the address provided 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.

#### 10. Announcement of Successful Applicants

**At 10:00 on Wednesday, September 6, 2017** the successful applicants' exam numbers will be posted on the public notice boards of the Faculty of Science, Shizuoka and the Research Institute of Electronics, Hamamatsu. Notification will also be sent by e-mail to all applicants.

#### 11. Admission Procedures

Successful applicants should complete the admission procedure in accordance with the dates listed below. Instructions for the admission procedure will be sent.

- (1) Registration Period and Payment:  
Registration Period: Late September 2017. Details will be provided.
- (2) Method of Registration: Mail to the Graduate School Office (see **8. Address for Submission**).  
Notice of Payment:
  - a. Admission fee must be paid when completing the admission procedures.
  - b. Students expected to complete a master's program or professional degree course at the Graduate School of Shizuoka University in September 2017 are not required to pay the admission fee.
- (3) Admission Fee and Tuition  
Admission Fee: ¥282,000 (actual for 2017).  
Tuition: ¥535,800 for the year (¥267,900 for a semester) (actual for 2017).  
Note:
  - a. If tuition for the previous term has not been paid by admission day, it must be paid between October 1 and October 31, 2017.
  - b. If you need to withdraw from school after enrolling any time up to September 30, 2017, 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.
- (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 Graduate School Office (see **16. Information**).
  - 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 Graduate School Office (see **16. Information**).

#### 12. Important Remarks

- (1) Students expected to complete a master's program or professional degree course at the Graduate School of Shizuoka University in September 2017 must complete Admission Procedures in spite of Notice of Payment 11. (3).
- (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 Graduate School Office should be informed of any change of address.
- (4) Requests for an Application Form by mail should be sent to the Graduate School Office (see **8. 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 documentation prior to the application period (see section 7, note 2) for evaluation of the application documents.

### 13. 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 the applicant’s scholastic aptitude based on his/her documents. If you have any questions, please contact the Graduate School Office (see **8. Address for Submission of 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 the university.
- c. Official Certificate of Achievement from graduate school issued by the most recently attended the university.
- d. Summary of Research and Technological Achievements. Complete the form provided.
- e. Record of Research and Technological Achievements. Complete the provided format.
- 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 results 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 Monday, July 3 to Friday, July 7, 2017.**

Applications must be submitted by the deadline by registered mail to the Graduate School Office (see **8. Address for Submission**).

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 Thursday, July 13, 2017.

#### (4) Application Period and Application Documents

Applicants who satisfy application requirements according to the qualification evaluation must complete the submission procedures described in sections **6. Application Documents** through **9. 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 **Tuesday, July 18 to Monday, July 24, 2017**.

- 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 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 passport copy clearly showing 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).

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

Applicants with disabilities that require special considerations 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.

#### 15. 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 the necessary conditions.

(2) Amount to be refunded:

The amount overpaid or the total amount will be refunded to the applicant per the applicant's requests.

(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 jyryōshō).

Refund requests MUST BE RECEIVED by the Shizuoka University Graduate School of Science and Technology no later than Wednesday, February 28, 2018.

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 Foreign 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 (We do not accept transfers to a postal account or Yuuchyo Bank)

\*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 the Tohoku Earthquake

We are taking special measures for applicants who were affected by Earthquakes 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).

東日本大震災により被災した静岡大学入学志願者に係る入学検定料の特別措置について  
[http://www.shizuoka.ac.jp/th\\_earthquake/eq\\_examin2014.html](http://www.shizuoka.ac.jp/th_earthquake/eq_examin2014.html)  
平成 28 年（2016 年）熊本地震で被災した入学志願者の入学検定料の特別措置について  
<http://www.shizuoka.ac.jp/nyushi/28kentei.pdf>

#### 16. Information

Graduate School Office, 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: [endo.norihito@shizuoka.ac.jp](mailto:endo.norihito@shizuoka.ac.jp)

General information about the Graduate School of Science and Technology, Shizuoka University, Japan, is available at

<http://gsst.shizuoka.ac.jp/en/>

**Applicants who have not been accepted can request examination results from Wednesday, November 15, 2017 through Friday, December 15, 2017.**

#### 17. Notes

Personal information submitted for the application is used only for 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.

# 平成28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: 平成30年3月退職予定/Scheduled to retire in March 2018

※2: 平成31年3月退職予定/Scheduled to retire in March 2019

※3: 平成32年3月退職予定/Scheduled to retire in March 2020

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.	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.	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
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 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.	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.	川田 善正 Yoshimasa Kawata	ナノイメージング, 光ナノ加工, 光制御を目的としたナノフォトニクス Nanophotonics for Nanometric Imaging, Optical Fabrication, and Optical Control	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
※1 教授 Prof.	永津 雅章 Masaaki Nagatsu	プラズマを用いたナノ構造材料プロセス Nano-structured Material Processing with Plasmas	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
※3 教授 Prof.	廣本 宣久 Norihisa Hiromoto	テラヘルツ・赤外線技術の研究 Study on Terahertz and Infrared Technology	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
教授 Prof.	三村 秀典 Hidenori Mimura	ナノビジョンサイエンスの創成を目指したナノ電子源と光電子材料の研究 Nano-field Emitters and Opto-electronic Materials for Nanovision	浜松 Hamamatsu
准教授 Assoc.Prof.	池田 浩也 Hiroya Ikeda	赤外線イメージ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	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. 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
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. 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
准教授 Assoc.Prof. 香川 景一郎 Kagawa Keiichiro	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
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. 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. トリパティ サロジ 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. 渡邊 実 Minoru Watanabe	光情報処理, 集積回路工学, 光電子融合デバイス, FPGA Optical Information Processing, Very-Large-Scale Integrated Circuit (VLSI), Optoelectronic Device, Field Programmable Gate Array (FPGA)	浜松 Hamamatsu
講師 Assist.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
講師 Assist.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: 平成30年3月退職予定/Scheduled to retire in March 2018

※2: 平成31年3月退職予定/Scheduled to retire in March 2019

※3: 平成32年3月退職予定/Scheduled to retire in March 2020

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.	板垣 秀幸 Hideyuki Itagaki	高分子固体およびゲルの機能化とその分子レベル評価 Functionalization and Its Molecular-level Assessment of Polymer Solids and Gels	静岡 Shizuoka
	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, 非線形レーザー顕微鏡, 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
	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
	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.	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.	鈴木 久男 Hisao Suzuki	液相法による機能性薄膜及びナノ粒子の合成と物性制御 Chemical Processing of Ferroelectric Thin Films and Nano-hybrid Particles	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
※3	教授 Prof.	田坂 茂 Shigeru Tasaka	高分子表面および界面の物理的性質 Physical Properties of Polymer Surfaces and Interfaces	浜松 Hamamatsu
	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
	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	静岡 Shizuoka	
※2	教授 Prof.	早川 泰弘 Yasuhiro Hayakawa	エネルギーデバイス関連高品質材料の結晶成長に関する研究 Crystal growth of energy-related high quality materials	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	
※1	教授 Prof.	前田 康久 Yasuhisa Maeda	機能材料の光電気化学, 光電極・光触媒による水の浄化 Photoelectrochemistry of Functional Materials, Water Purification by Photoelectrode and Photocatalyst	浜松 Hamamatsu
教授 Prof.	間瀬 暢之 Nobuyuki Mase	グリーンケミストリーとプロセス化学に基づいた有機化学における反応・合成手法の開発と応用 Development of organic synthetic methodology based on process and green chemistry	浜松 Hamamatsu	
教授 Prof.	三重野 哲 Tetsu Mieno	ナノチューブ, フラーレンなどのナノ物質材料の合成, 物性および応用。新しいプラズマプロセスの研究。 Production, Analysis and Application of Nano-materials Such as Nanotubes and Fullerenes. Development of new plasma-processing methods.	静岡 Shizuoka	
※2	教授 Prof.	村上 健司 Kenji Murakami	色素増感太陽電池と応力発光体等のエネルギー変換機能材料及びナノスケール機器分析 Energy Conversion Functional Materials Such as Dye-sensitized Solar Cells and Mechanoluminescent Materials, and Nano-scale Instrumental Analyses	浜松 Hamamatsu
教授 Prof.	依田 秀実 Hidemi Yoda	微量生命維持物質構築を目指す新方法論開発と合成戦略、新規化学酵素設計と生命反応論の解明。 Development and Total Synthesis of Biologically Active Materials. Design of New Chemzymes and Application to Catalytic Asymmetric Reactions	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.	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 Tomita Yasumasa	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.	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	
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	

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. 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. 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. 山中正道 Masamiti Yamanaka	有機合成化学に基づく自己集合ナノ構造体の開発 Development of Self-assembled Nanoarchitecture Based on Synthetic Organic Chemistry	静岡 Shizuoka

## 情報科学専攻

Department of Information Science and Technology

※1:平成30年3月退職予定/Scheduled to retire in March 2018

※2:平成31年3月退職予定/Scheduled to retire in March 2019

※3:平成32年3月退職予定/Scheduled to retire in March 2020

担当教員 Academic Staff	教育研究分野 Research Area	所 属 キャンパス
教授 Prof. 浅井 秀樹 Hideki Asai	SI/PI/EMC設計のための三次元モデリングとシミュレーション 3-dimensional modeling & simulation for SI/PI/EMC design	浜松 Hamamatsu
教授 Prof. 浅芝 秀人 Asashiba Hideto	多元環の表現論, 多元環の導来同値分類 Representation theory of algebras, Derived equivalence classification of algebras	静岡 Shizuoka
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. 熊野 善介 Yoshisuke Kumano	科学教育学・理科教育学・STEM教育改革論・e-learning開発論 ・エネルギー環境教育論・授業研究・学習評価論 Science Education, STEM Education for innovation, E-learning Development, Energy & Environmental Education, Lesson Study, Authentic Assessment	静岡 Shizuoka
教授 Prof. 桑原 義彦 Yoshihiko Kuwahara	アンテナ・伝搬, 電波応用システム, 電磁界解析 Antennas and Propagation, Radio Application System, Electromagnetic Analysis	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. 酒井 三四郎 Sanshiro Sakai	ソフトウェア開発環境, 協調学習, プログラミング学習 Software Development Support Environment, Computer Supported Collaborative Learning, Programming Learning	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, 組み込み用画像処理システム Image Processing, Embedded Image Processing System	浜松 Hamamatsu
教授 Prof. 鈴木 信行 Nobu-Yuki Suzuki	非古典述語論理, Kripke意味論 Non-classical Predicate Logics, Kripke Semantics	静岡 Shizuoka
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. 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
※1 教授 Prof. 竹前 忠 Tadashi Takemae	生体計測 Biomedical Measurement	浜松 Hamamatsu

担当教員 Academic Staff			教育研究分野 Research Area	所属 キャンパス
※2	教授 Prof.	舘岡康雄 Yasuo Tateoka	技術経営、経営戦略、支援学、複雑系、組織変革 Management of Technology, Management Strategy, SHIEN Management, Complex System, and Organizational Reform	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
	教授 Prof.	土屋麻人 Tsuchiya Asato	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.	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
	教授 Prof.	西村雅史 Masafumi Nishimura	音声言語情報処理、音声技術応用 Spoken Language Processing, Application of Speech Technologies	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.	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
	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、知的光計測 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.	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 Mori Izuru	非可換代数幾何学 Noncommutative Algebraic Geometry	静岡 Shizuoka
	准教授 Assoc.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
	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.	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

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. 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
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. 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
准教授 Assoc.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
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. 峰野 博史 Hiroshi Mineno	ユビキタスセンサネットワーク, コンシューマデバイス&システム, データサイエンス Ubiquitous Sensor Network, Consumer Device & System, Data Science	浜松 Hamamatsu
准教授 Assoc.Prof. 横山 昌平 Shohei Yokoyama	データベース, Web工学, 地理情報システム, 可視化 Database, Web engineering, Geographic information system, Visualization	浜松 Hamamatsu
准教授 Assoc.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
講師 Assist.Prof. 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 Assist.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
助教 Assist.Prof. 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

## 環境・エネルギーシステム専攻

Department of Environment and Energy System

※1: 平成30年3月退職予定/Scheduled to retire in March 2018

※2: 平成31年3月退職予定/Scheduled to retire in March 2019

※3: 平成32年3月退職予定/Scheduled to retire in March 2020

担当教員 Academic Staff		教育研究分野 Research Area	所 属 キャンパス
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.	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.	金原 和秀 Kazuhide Kimbara	環境生物学, 微生物利用学 Environmental Biotechnology, Applied Microbiology	浜松 Hamamatsu
教授 Prof.	桑原 不二朗 Fujio Kuwabara	熱流動における輸送現象 Transport Phenomena Associated with Heat and Fluid Flow	浜松 Hamamatsu
※2 教授 Prof.	齋藤 隆之 Takayuki Saito	混相系複雑流体工学, 光応用環境流体計測, 二酸化炭素対策技術開発 Turbulent Multiphase Flow, Fluid Dynamics Measurement via Advance Optical Devices, Development of CO <sub>2</sub> Sequestration System	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.	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
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.	福田 充宏 Mitsuhiro Fukuta	冷凍工学, 流体機械, エネルギー変換 Refrigerating Engineering, Fluid Machinery, Energy Conversion	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
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
※2 教授 Prof.	Beatriz Estela Casareto	海洋生物学, 微生物学, 微生物食物網, 海洋バイオマス marine biology, microbiology, microbial food webs, marine biomass	静岡 Shizuoka
教授 Prof.	道林 克禎 Katsuyoshi Michibayashi	構造地質学, 構造物理学, 地殻およびマントルのレオロジー Structural Geology, Tectonophysics, Rheology of Crust and Mantle	静岡 Shizuoka
※3 教授 Prof.	森下 祐一 Yuichi Morishita	鉱床学, 同位体地質学, 二次イオン質量分析法 Ore geology, Isotope geology, Secondary ion mass spectrometry	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.	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
※3 教授 Prof.	吉村 仁 Jin Yoshimura	進化生態学の理論とモデル Mathematical Theories and Models in Evolutionary Ecology	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 Junich 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.	木村 浩之 Hiroyuki Kimura	地球微生物学、環境ジェノミクス Geomicrobiology, Environmental Genomics	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.	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
准教授 Assoc.Prof.	真田 俊之 Toshiyuki Sanada	流体工学、混相流、洗浄 Fluids Engineering, Multiphase Flow, Cleaning	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
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
講師 Assist.Prof.	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:平成30年3月退職予定/Scheduled to retire in March 2018

※2:平成31年3月退職予定/Scheduled to retire in March 2019

※3:平成32年3月退職予定/Scheduled to retire in March 2020

※4:海外留学中のため、指導教員として志望することはできません

担当教員 Academic Staff	教育研究分野 Research Area	所属 キャンパス
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. 河岸 洋和 Hirokazu Kawagishi	菌類由来の2次代謝産物の化学的研究 Chemical Studies on Secondary Metabolites from Fungi	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. 塩尻 信義 Nobuyoshi Shiojiri	肝臓形成の分子メカニズム Developmental Signaling and Morphogenesis	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. 瀧川 雄一 Yuichi Takikawa	植物病原細菌の分類同定および進化 Taxonomy and Evolution of Plant Pathogenic Bacteria	静岡 Shizuoka
教授 Prof. 竹之内 裕文 Takenouchi Hirobumi	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
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
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
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
教授 Prof. 山内 清志 Kiyoshi Yamauchi	両生類の分子生物学 Molecular Biology of Amphibians	静岡 Shizuoka
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

担当教員 Academic Staff	教育研究分野 Research Area	所属 キャンパス
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. 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
准教授 Assoc.Prof. 小谷 真也 Shinya Kodani	抗生物質生産の研究 Research on antibiotic production	静岡 Shizuoka
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
※4 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. 平田 久笑 Hisae Hirata	植物病原微生物の感染における分子機構 Molecular mechanism responsible for infection of plant pathogen	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