

## **April 2019 Admission**

### **Guidelines for application to doctoral program In The Cooperative Major in Medical Photonics (3-Year Doctoral Program) Shizuoka University Graduate School & Hamamatsu University School of Medicine Graduate School**

**Application period : January 7th to January 11th 2019**

**Date of Interview : January 26th 2019**

**Announcement of Successful Applicants : February 19th 2019**



National University Corporation

**Shizuoka University**

**Doctoral Program Graduate School Unit**

**3-5-1 Johoku, Naka-ku, Hamamatsu City, Shizuoka Prefecture 432-8561, Japan**

**Tel: +81-(0)53-478-1350**

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**Hamamatsu University  
School of Medicine**

**School of Medicine: Entrance Exam Unit, Admissions Division**

**1-20-1 Handayama, Higashi-ku, Hamamatsu City, Shizuoka Prefecture 431-3192, Japan**

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**The Cooperative Major in Medical Photonics website :  
<http://www.cmmp.shizuoka.ac.jp/en/>**

### **Admissions Policy for the Cooperative Major in Medical Photonics**

This cooperative major is designed to train experts who can contribute to society as researchers in the field of medical photonics, which combines opto-electronics and photomedicine. Students offering qualities such as the following will be selected:

1. The basic academic skills necessary to study opto-electronics and medicine, together with an active curiosity about science
2. Motivation and ambition to continue learning throughout their lives and the ability to apply their knowledge to think creatively
3. Integrity, a cooperative approach, and ethical awareness, enabling teamwork with researchers in other fields
4. An interest in the global community and local communities

### **Main Distinguishing Features of the Cooperative Major in Medical Photonics**

Shizuoka University and Hamamatsu University School of Medicine will jointly offer advanced education and research supervision in medical photonics. This is one of the world's most advanced research fields, combining Shizuoka University's opto-electronics with Hamamatsu University School of Medicine's photomedicine. The aim of the major is to train highly skilled professionals well-versed in both medicine and electronics.

- (1) A joint degree from both Shizuoka University and Hamamatsu University School of Medicine will be awarded.
- (2) Students will be enrolled with both Shizuoka University and Hamamatsu University School of Medicine. However, they will be formally registered with the university in which the main full-time faculty member (the "main supervisor") supervising their research is enrolled.
- (3) Students will attend lectures for the cooperative major offered at both Shizuoka University and Hamamatsu University School of Medicine. In addition, the curriculum has been designed to enable them to use both schools' facilities including medical institutions and medical photonics-related R&D sites.
- (4) The cooperative major is structured so that students also receive research supervision from faculty members at their non-registered university (by "assistant supervisors," etc.)

Exam results and other personal information acquired in the process of selecting new students will not be used for any purpose other than student selection, except that information may on occasion be used for statistical surveys in a form that does not identify specific individuals.

**Applications will be accepted only by Shizuoka University.**

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## **1. Number of Students to be Admitted**

Selection Process Category	Shizuoka University	Hamamatsu University School of Medicine
General selection process	1	2
Selection process for working adults		
Selection process for international students		

Note: The total number of students to be admitted via the general selection process, the selection process for working adults, and the selection process for international students is 1 students at Shizuoka University and 2 students at Hamamatsu University School of Medicine.

## **2. Eligible Candidates**

### *General selection process*

Individuals corresponding to any one of items (1) to (3) below.

### *Selection process for working adults*

Individuals corresponding to any one of items (1) to (3) below who will be in formal employment, or who expect to be in formal employment, from April 1, 2019 onward.

### *Selection process for international students*

Non-Japanese individuals corresponding to any one of items (1) to (3) below who have student residence status in Japan (or a status of residence that can be changed to student residence status) as specified in the Japanese Immigration Control and Refugee Recognition Act, or who expect to be able to obtain such status when enrolling in university.

- (1) Individuals who have a master's degree or a professional degree (this refers to a professional degree as prescribed in Article 5-2 of the Degree Regulations [Ordinance of the Ministry of Education, Science and Culture No. 9 of 1953] pursuant to the provisions of Article 104, paragraph 1 of the School Education Act [Act No. 26 of 1947]; the same applies below), or who expect to obtain such a degree by March 2019.
- (2) Individuals corresponding to any one of items (i) to (v) below who have degree equivalent to a master's degree or a professional degree or who expect to obtain such a degree by March 2019.

- (i) Those awarded a degree equivalent to a master's degree or a professional degree outside Japan.
- (ii) Those awarded a degree equivalent to a master's degree or a professional degree after completing class subjects offered via correspondence education by a foreign school while in Japan.
- (iii) Those awarded a degree equivalent to a master's degree or a professional degree having completed a program in Japan offered by a foreign educational facility positioned as a facility that provides graduate school curricula under said foreign country's school education system, and designated separately by the Japanese Minister of Education, Culture, Sports, Science and Technology.
- (iv) Those awarded a degree equivalent to a master's degree having completed a program at the United Nations University established pursuant to the United Nations General Assembly resolution of December 11, 1972, as prescribed in Article 1, paragraph 2 of the Act on Special Measures Incidental to Enforcement of the "Agreement between the United Nations and Japan regarding the Headquarters of the United Nations University" (Act No. 72 of 1976).
- (v) Those deemed to possess academic ability equal to or greater than a person who has a master's degree, having completed a course of study in a foreign school, an educational facility designated according to (iii) above, or the United Nations University, and passed an assessment equivalent to an exam or review process as prescribed in Article 16-2 of the Standards for Establishment of Graduate Schools (Ordinance of the Ministry of Education, Science and Culture No. 28 of 1974).

(3) Individuals corresponding to either item (i) or (ii) below who, as a result of individual review for eligibility to apply for the Cooperative Major in Medical Photonics, are deemed to possess academic ability equal to or greater than a person who has a master's degree or a professional degree.

- (i) Individuals designated by the Minister of Education, Culture, Sports, Science and Technology (Public Notice of the Ministry of Education, Science and Culture No. 118 of 1989), as follows:
  - a. Those who, having graduated from a university in Japan and pursued research for 2 years or more in a university, research institute, or similar institution, are deemed as a result of the output, etc., of that research to possess academic ability equal to or greater than a person who has a master's degree for the purposes of this cooperative major.

- b. Those who, having completed a 16-year program of school education outside Japan or completed a 16-year program of school education of the relevant foreign country by completing class subjects offered via correspondence education by a foreign school while in Japan, then subsequently pursued research for 2 years or more in a university, research institute, or similar institution, are deemed as a result of the output, etc., of that research to possess academic ability equal to or greater than a person who has a master's degree for the purposes of this cooperative major.
- (ii) Individuals such as those listed in a. through c. below who, as a result of individual review for eligibility to apply for this cooperative major, are deemed to possess academic ability equal to or greater than a person who has a master's degree or a professional degree, and who reached/will reach the age of 24 by March 31, 2019.
  - a. Those who have graduated, or who expect to graduate by March 2019, from a department of medicine (having completed a 6-year course in medicine, or similar).
  - b. Those who have completed, or who expect to complete by March 2019, an 18-year program of school education outside Japan (including graduation from a department of medicine [having completed a medical course or similar, which must have lasted 6 years]).
  - c. Those who have research achievements deemed to have merit equal to or greater than a master's thesis.

Note: Please be aware that individuals who wish to apply under item (3) of “**2. Eligible Candidates**” above must undergo a review to approve their eligibility to apply in accordance with “**3. Evaluation of Qualifications for Application**” below.

### **3. Evaluation of Qualifications for Application**

Individuals corresponding to item (3) under “**2. Eligible Candidates**” above are required to undergo a preliminary review to approve their eligibility to apply as detailed below. Only those who pass the review may apply.

*Application for review to approve eligibility, and review method, etc.*

- (1) Documents for submission
  - (i) Written application for approval of eligibility  
Use form provided
  - (ii) Résumé  
Use form provided

(iii) Certificate of (prospective) graduation

Submit a certificate issued by the university president, a dean, or a person of similar status at the university/department, etc., from which you graduated.

(iv) Transcript of results

Submit a transcript of results issued by the university president, a dean, or a person of similar status at the university/department, etc., from which you graduated; the envelope should be sealed.

(v) Return envelope

Write your address on a Japanese standard type-3 envelope (12 cm x 23.5 cm) or a similar one and affix a 362 yen stamp (for express delivery).

(vi) Description of research experience

Use form provided (submission is unnecessary for applicants with no research experience).

(vii) Details of research achievements

Use form provided (submission is unnecessary for applicants with no research experience). Attach a print-out of a thesis/paper or photocopied details of research output of a standard equal to or greater than a master's degree.

(viii) List of research achievements

Use the form provided to list your research achievements including books, theses/papers, oral presentations, or presentations of pieces of work other than a master's thesis, etc., related to the topic(s) you intend to research as part of the cooperative major, and submit.

Note that submission of additional certificates, etc., may be required as necessary.

You can download (i), (ii), (vi), (vii) and (viii) from the website.

(2) How to submit documents

Please submit the above documents by hand or by postal mail to the submission address detailed below. If sending by postal mail, however, please write in red on the front of the envelope **“Contains Application Documents for Doctoral Course Eligibility Approval Review”** and ensure that you send the documents by **registered mail (by airmail for living abroad)**. If submitting by hand, please bring the documents to the submission address between 9:00 a.m. and 5:00 p.m. on a weekday (excluding national holidays and the hour between 12:00 and 1:00 p.m.).

a. Submission period: Documents must reach the submission address between December 11 and December 17, 2018.

b. Submission address: Doctoral Program Graduate School Unit, Shizuoka University,  
3-5-1 Johoku, Naka-ku, Hamamatsu City, Shizuoka Prefecture 432-8561, Japan  
Tel: +81-(0)53-478-1350

(3) Review method

The university will undertake a preliminary review based on the documents you submit. If deemed particularly necessary, interviews will also be used for the review. Applicants will be contacted individually if an interview is required.

(4) Notification of preliminary review results

Applicants who applied for review will be notified of results by December 25, 2018.

(5) Admissions application period and application documents

If your eligibility to apply for enrollment in the Cooperative Major in Medical Photonics is approved, please follow the instructions contained in the notification you receive and submit the documents designated under “**6. Admissions Application Procedure**” below during the admissions application period specified.

#### **4. Method for Selecting New Students**

Decisions on the selection of new students are made comprehensively by means of document-based screening and a specialized interview. Screened documents include applicants’ applications for admission, statements of intent, transcripts of results, and other reference materials. During the specialized interview, applicants are required to make a presentation on their plan for research at preferred university (including details of the research and development they want to undertake as part of the cooperative major, and the university at which they wish to be registered if they are able to pursue their intended research). They will also be asked questions to assess their basic knowledge in their field of specialty, among other matters.

The specialized interview lasts approximately 30 minutes, including time allowed for the applicant’s presentation (around 15 minutes). Applicants should bring with them a laptop PC (running the necessary presentation software) to make their presentation.

Those undergoing the selection process for working adults, and other applicants with research experience, may make a presentation on their research achievements. For those undergoing the selection process for international students, the specialized interview may be conducted in either English or Japanese.

#### **5. Date and Time of Interview**



Date	Time	Interview Category	Interview Venue
January 26, 2019	As notified	Specialized interview	Shizuoka University Hamamatsu Campus 3-5-1 Johoku, Naka-ku, Hamamatsu City

(Further details will be provided in the interview guidelines that will be sent to you with your application registration sheet)

Note: An online interview via Skype can be conducted for applicants undergoing the selection process for international students who wish to complete the selection process before travelling to Japan.

#### **Access to the Interview Venue**

✧ Shizuoka University Hamamatsu Campus

Take any bus from stands 15 or 16 of the JR Hamamatsu Station North Exit bus terminal; alight at the Shizuoka University stop. The bus takes approximately 20 minutes.

Note: If the admissions interview is to be postponed for reasons such as bad weather, a notice will be posted on the Cooperative Major in Medical Photonics website (<http://www.cmmp.shizuoka.ac.jp/en/>) by 7:30 a.m. on January 26, 2019. If the interview is postponed, it will take place on January 27, 2019 instead.

## **6. Admissions Application Procedure**

### **(1) Admissions application documents**

Documents, etc.		Submission required from	Remarks
①	Application for admission	All applicants	Fill out the necessary items on the form provided and submit.
②	Application registration sheet/photo sheet	All applicants	Fill out the necessary items on the form provided and affix a photograph taken within 3 months prior to your application in the designated section.
③	Statement of intent (written research plan)	All applicants	Fill out the necessary items on the form provided and submit.

④	Application Fee Payment Instructions	All applicants	<p>The fee is ¥30,000. <b>Please pay by August 6.</b></p> <p>Please enclose the certificate kinds concerned with examination fee payment (It's possible to copy.) with an application documents.</p> <p>There is a case of possibility that no examination fee will be charged to individuals currently enrolled on master's or professional degree programs at Shizuoka University's graduate schools and, master's degree programs at Hamamatsu University School of Medicine.</p> <p>Please refer to Page 10 through 11" Application Fee Payment Instructions (Payment from Abroad)"</p>
⑤	List of forms to be submitted	All applicants	Fill out the necessary items on the form provided and submit.
⑥	Transcript of results (for a bachelor's degree program or equivalent)	Applicants who have completed (or expect to complete) a bachelor's degree program or equivalent	Submit a transcript of results issued by the university president, a dean, or a person of similar status at the university/department, etc., from which you graduated/in which you are currently enrolled; the envelope should be sealed.
⑦	Certificate of (prospective) completion (for a master's or professional degree program or equivalent)	Applicants who have completed (or expect to complete) a master's or professional degree program or equivalent	Submit a certificate issued by the university president, graduate school dean, or a person of similar status at the university/department, etc., from which you graduated/in which you are currently enrolled.
⑧	Transcript of results (for a master's or professional degree program or equivalent)	Applicants who have completed (or expect to complete) a master's or professional degree program or equivalent	Submit a transcript issued by the university president, graduate school dean, or a person of similar status at the university/department, etc., from which you graduated/in which you are currently enrolled; the envelope should be sealed.

⑨	Photocopy or summary of master's thesis, etc.	Applicants who have completed a master's or professional degree program or equivalent	<p>A master's thesis, etc., may comprise any of the following:</p> <ul style="list-style-type: none"> <li>(i) A master's thesis</li> <li>(ii) Any paper presented publicly during the period between the master's thesis production and the time of this application</li> <li>(iii) Output from research into a specific topic (themed research)</li> </ul> <p>If any of the items (i) through (iii) above is written in a language other than Japanese or English, include a Japanese translation.</p> <p>If submitting a summary, use A4 paper to write a summary of your master's thesis, etc., (which may comprise a non-master's thesis of a standard equal to or greater than that for a master's degree, or a progress report on a master's thesis, etc.) of no more than 4,000 Japanese characters or no more than 2,000 English words, and submit.</p>
⑩	Progress report on master's thesis, etc.	Applicants who expect to complete a master's or professional degree program or equivalent	Use A4 paper to write a progress (interim) report on your master's thesis, etc., and submit. On the final page include comments on the report by your supervisor or a person of similar status together with their job title and signature.
⑪	List of research achievements	Applicants with research achievements	Use the form provided to list your research achievements including books, theses/papers, oral presentations, or presentations of pieces of work other than a master's thesis, etc., related to the topic(s) you intend to research as part of the cooperative major, and submit.

⑫	Photocopy of a thesis/paper of a standard equal to or greater than that for a master's degree, or a summary of research	Individuals who wish to apply under item (3) of <b>"2. Eligible Candidates"</b> above (submission is unnecessary for applicants with no research experience)	A thesis/paper of a standard equal to or greater than that for a master's degree means a peer-reviewed academic paper published in an academic book or a national academic journal. If written in a language other than Japanese or English, include a Japanese translation.  If submitting a summary of research, use A4 paper to write a summary of no more than 4,000 Japanese characters or no more than 2,000 English words, and submit.
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*Additional Documents to Be Submitted by Individuals Wishing to Undergo the Selection Process for Working Adults*

⑬	Written consent from employer	All working applicants	Individuals who are employed, or expect to be employed, on or after April 1, 2019, and intend to seek enrollment on the cooperative major while continuing their employment should submit written consent from their employer in the prescribed format.
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*Additional Documents to Be Submitted by Individuals Wishing to Undergo the Selection Process for International Students*

⑭	Photocopy of passport	All international applicants	Submit a photocopy of the page showing your name, date of birth, and gender.
⑮	Residence card, etc.	Non-Japanese residents in Japan	Non-Japanese residents in Japan should submit one of the following certifications: a. A photocopy of a residence card (including the section[s] showing residence status and the permitted duration of residence) b. A photocopy of an entry visa (all relevant pages)
⑯	Japanese government (MEXT) scholarship student certificate	Japanese government (MEXT) scholarship students	Submit a Japanese government (MEXT) scholarship student certificate issued by the university in which you are currently enrolled.

Notes:

1. Please complete the application documents in Japanese or English.
2. If certificates, etc., are in a language other than Japanese or English, ensure that you attach a Japanese translation.
3. If any certificates show a surname that differs from your current surname, please attach certification enabling your change of name to be verified.
4. There may be other cases in which submission of additional certificates, etc., may be required as necessary.
5. You can download admissions application documents ①, ③, and ⑪ from the website.

(2) Application Fee Payment Instructions (Payment from Abroad)

If you want to transfer the examination fee from abroad, please refer to the following. Please enclose the certificate kinds concerned with examination fee payment (It's possible to copy.) with an application documents.

You will pay ¥ 30,000. Payment should be made in Japanese yen only, and the transfer fee required by the overseas financial institution should be paid individually.

A remittance check is not acceptable. **Please pay by January 10.**

\* It should be noted that the examination fee alone (without the handling and transfer fees) does not cover the necessary amount for you to take the examination.

■ Bank name, SWIFT code, Branch name and Branch address	
Bank Name:	SUMITOMO MITSUI BANKING CORPORATION
Swift Code:	SMBCJPJT
Branch Name:	Hamamatsu
Branch Address:	325-6 Sunayama-cho, Naka-ku, Hamamatsu, 430-0926, Japan
■ Name, account number, address of payee, and Phone of Payee	
Name of Payee:	National University Corp, Hamamatsu University School of Medicine Kenteiryoguti
Account Number:	6941602
Account Type:	Saving
Address of Payee	1-20-1 Handayama, Higashi-ku, Hamamatsu, 431-3192, Japan
Phone of Payee	+81-53-435-2205
In addition, fill out the following information if necessary.	
Purpose of Remittance:	Application Fee
Message to Payee, if any:	Your name

Note, however, that **no examination fee will be charged to individuals currently enrolled on master's or professional degree programs at Shizuoka University's graduate schools, who plan to complete their program in March 2019 and transfer directly to the Cooperative Major in Medical Photonics at Shizuoka University.**

In addition, that **no examination fee will be charged to individuals currently enrolled on master's or professional degree programs at Shizuoka University's graduate schools, or master's degree programs at Hamamatsu University School of Medicine who plan to complete their program in March 2019 and transfer directly to the Cooperative Major in Medical Photonics at Hamamatsu University School of Medicine.**

Applicants applying under item (3) of “**2. Eligible Candidates**” above, who undergo preliminary review to approve their eligibility to apply, do not need to pay the admissions examination fee (30,000 yen) when they apply for the eligibility review. Review applicants will be notified of results by December 25, 2018; if your eligibility is approved, please follow the instructions contained in the notification you receive.

(3) Admissions application method

Please submit the application documents by hand or by postal mail to the submission address detailed below. If sending by postal mail, however, please write in red on the front of the envelope “**Contains Application Documents for Doctoral Course**” and ensure that you send the documents by **registered mail. (by airmail for living abroad)**. If submitting by hand, please bring the documents to the submission address between 9:00 a.m. and 5:00 p.m. on a weekday (excluding national holidays and the hour between 12:00 and 1:00 p.m.).

(4) Admissions application period

**Applications must reach the submission address between January 7, 2019, and January 11, 2019 (by 5:00 p.m.).**

(5) Submission address for application documents, etc.

Doctoral Program Graduate School Unit, Shizuoka University, 3-5-1 Johoku, Naka-ku,  
Hamamatsu City, Shizuoka Prefecture 432-8561, Japan

Tel: +81-(0)53-478-1350

**Note: Admissions applications are accepted only by Shizuoka University.. Please do not submit applications to Hamamatsu University School of Medicine.**

(6) Other matters to note with regard to applications

- a. No alterations to details provided in application documents will be permitted after the documents are submitted.
- b. If application documents are incomplete, the university may not accept them.
- c. Application documents received by the university will not be returned.

(7) Research supervisors

In accordance with the aims of the Cooperative Major in Medical Photonics, after starting the program, each student will be provided with a main supervisor, and one assistant supervisor from each of the two universities. The supervisors will liaise with each other to supervise students' study and research. **When applying, applicants should choose their preferred university and their preferred main supervisor from among the supervisors detailed on the list provided on page 20 to 21 (Cooperative Major in Medical Photonics: List of Full-Time Faculty Members), and state these preferences on their application for admission (the section for stating a second preference may be left blank). Applicants should contact their preferred supervisor before making their application to confirm that their proposed research is appropriate.** After students start the program, main supervisors will advise on choosing assistant supervisors from among the faculty members affiliated with the cooperative major.

**7. Special Measures for Prospective Applicants with Disabilities, etc.**

Prior consultation is offered for prospective applicants with disabilities, etc., who will require special arrangements when undergoing the selection process or attending university. Please **apply for a consultation by December 25, 2018**, following the procedure below.

Application method	<p>Apply using the form titled “application for special measures during the graduate school selection process,” attaching a photocopy of a document certifying your disability or a medical certificate from a doctor.</p> <p>If necessary, a face-to-face meeting will be held with the applicant him/herself or with a person who can represent the applicant (a parent/guardian, a member of staff from the applicant’s previous school, etc.)</p>
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Contact address	Doctoral Program Graduate School Unit, Shizuoka University, 3-5-1 Johoku, Naka-ku, Hamamatsu City, Shizuoka Prefecture 432-8561, Japan Tel: +81-(0)53-478-1350 <a href="mailto:cmmp@adb.shizuoka.ac.jp">E-mail: cmmp@adb.shizuoka.ac.jp</a>
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Notes:

1. When inquiring by postal mail or requesting the form to apply for special measures during the graduate school selection process, please enclose a return envelope (Japanese standard type-3 envelope (12 cm x 23.5 cm) and mail your inquiry/request to the contact address above. Affix an 82 yen stamp to the envelope and write the postal code, address, and name of the person making the request/inquiry.
2. If you intend to inquire by telephone or hand-deliver an application for special measures, be aware that the above office cannot accept telephone inquiries or visits on Saturdays, Sundays, or national holidays.

## **8. Announcement of Successful Applicants**

Date and time: **February 19, 2019, at 10:00 a.m.**

Method of announcement: The application numbers of successful applicants will be posted on the Cooperative Major in Medical Photonics website. The announcement of successful applications on the website is for reference only. Formal notification will be via acceptance notices sent directly to successful applicants (by express postal mail); please ensure that you check the result of your application by confirming whether you have received an acceptance notice. Please also note that the announcement of successful applications on the website may take some time.

<http://www.cmmp.shizuoka.ac.jp/en/>

- **The university will send acceptance notices to successful applicants promptly by express postal mail.**
- **The university will mail documents for the enrollment procedure to successful applicants by late February 2019 (subject to change).**

Note: Under no circumstances will the university respond to inquiries about application results, whether by telephone or by any other means.



## **9. Enrollment procedure**

The university will mail the documents, etc., necessary for the enrollment procedure to successful applicants by late February 2019. The university with which each student is registered will handle the enrollment procedure by mid-March.

### **(1) Enrollment and tuition fees**

Enrollment fee	282,000 yen (amount charged for academic year 2018)
Annual tuition fee	535,800 yen (267,900 yen per half-year; amounts charged for academic year 2018)

Note:

Tuition fees to be paid after completion of enrollment.

In the event of revision of payment, post-revision amounts will apply.

### **(2) Points to note with regard to fees**

- (i) Please be aware that successful applicants who do not pay their enrollment fee by the date specified under the enrollment procedure as mentioned above, will become ineligible for enrollment on the course.
- (ii) No enrollment fee needs to be paid by individuals currently enrolled on master's or professional degree programs at Shizuoka University's graduate schools, who plan to complete their program in March 2019 and transfer directly to the Cooperative Major in Medical Photonics at Shizuoka University's graduate school from April 2019.  
In addition, that no enrollment fee will be charged to individuals currently enrolled on master's or professional degree programs at Shizuoka University's graduate schools, or master's degree programs at Hamamatsu University School of Medicine who plan to complete their program in March 2019 and transfer directly to the Cooperative Major in Medical Photonics at Hamamatsu University School of Medicine.
- (iii) The university will provide information regarding the treatment of enrollment fees for the following individuals by the time it mails the enrollment procedure documents:

Individuals currently enrolled on master's degree programs at Hamamatsu University School of Medicine's graduate schools, who plan to complete their program in March 2019 and transfer directly to the Cooperative Major in Medical Photonics at Shizuoka University's graduate school from April 2019.

(3) Enrollment/tuition fee exemptions and long-term course registration system

*Enrollment fee exemption or postponement and tuition fee exemption*

Students whose annual income at the time of enrollment in graduate school is below a certain level may be granted exemption from or postponement of their enrollment fee and/or exemption from their tuition fees. More information about enrollment fee exemption or postponement and tuition fee exemption will be provided in the admission procedure guide.

*Long-term course registration system*

The long-term course registration system is a system for students who are in formal employment, or for other reasons believe that they cannot finish a graduate school program within the standard 3 years. The system enables them to apply to schedule the completion of their course over a period lasting up to 6 years. During their extended period of attendance at the university, such students are eligible for special measures with regard to annual tuition fees. Please note, however, that some applications for special measures are denied following review. More information about the long-term course registration system will be provided in the admission procedure guide.

## **10. Examination Fee Refunds**

Admissions examination fees that have been paid will not be refunded for any reason other than the following:

(1) An examination fee refund may be claimed if:

- (i) No application documents were submitted
- (ii) The examination fee was paid twice by mistake
- (iii) The application documents were not accepted by the university

(2) The university will provide information regarding the treatment of examination fee refunds for the following individuals by the time it posts the enrollment procedure documents:

Individuals currently enrolled on master's degree programs at Hamamatsu University School of Medicine's graduate schools, who plan to complete their program in March 2019 and transfer directly to the Cooperative Major in Medical Photonics at Shizuoka University's graduate school from April 2019.

(3) Amount of examination fee to be refunded

The university will refund the overpaid amount or the entire amount as requested by the

applicant him/herself. The bank transfer fee for the refund must be paid by the individual requesting the refund.

(4) How to claim a refund

- In the case of (1) (i) or (ii) above

Using an appropriate sheet of paper (notepaper, etc.), prepare a claim for refund of your examination fee, stating the details in 1 to 7 below. Ensure that you attach a receipt for payment by transfer (an admissions examination fee receipt) from the Bank and send by postal mail to Doctoral Program Graduate School Unit, Shizuoka University by February 27, 2019.

- In the case of (1) (iii) above

The university will enclose a form for claiming a refund of the examination fee when returning your admissions application documents. Please fill in the necessary information and send back by postal mail.

- In the case of (2) above

In due course, the university will send a form for claiming a refund of the examination fee. Please fill in the necessary information and send back by postal mail.

Claim for Refund of Graduate School Admissions Examination Fee

- 1 Reason for claiming refund
- 2 Name of graduate school and major for which you were applying
- 3 Your name (in both roman alphabet and kana, if possible)
- 4 Your current address
- 5 Your contact telephone number
- 6 Amount of refund claimed (30,000 yen)
- 7 Account for refund: Bank name and branch (avoid post office or Japan Post Bank accounts)
  - Account type (ordinary/current [for Japanese accounts]) and account number
  - Account name (in both roman alphabet and kana for Japanese accounts)
  - If the account name differs from the applicant's name, state the relationship between the accountholder and the applicant

(5) Special measures regarding admissions examination fees for prospective applicants affected by the March 2011 Tohoku earthquake and tsunami or the April 2016 Kumamoto earthquake.

The university has established special measures during the student selection process to refund admissions examination fees for those affected by the above two earthquakes. The measures are designed to ensure that candidates affected by the earthquakes have

opportunities to advance their education by reducing the financial burden on them. More information is available via the URLs below.

Information on special measures regarding admissions examination fees for prospective applicants affected by the March 2011 Tohoku earthquake and tsunami:

[http://www.shizuoka.ac.jp/th\\_earthquake/eq\\_examin2014.html](http://www.shizuoka.ac.jp/th_earthquake/eq_examin2014.html)

Information on special measures regarding admissions examination fees for prospective applicants affected by the April 2016 Kumamoto earthquake:

<http://www.shizuoka.ac.jp/nyushi/30kentei.pdf>

## **11. Selection Process Feedback**

Applicants who undergo the selection process, but are not accepted for the academic year in question, may request notification of their selection process score from the university they gave as their first choice when applying. Please contact the universities as detailed below for more information:

Shizuoka University: Graduate School Unit, Educational Affairs Section, Student Affairs Division  
836 Ohya, Suruga-ku, Shizuoka City, Shizuoka Prefecture 422-8529, Japan

Tel: +81-(0)54-238-4332

Hamamatsu University School of Medicine: Entrance Exam Unit, Admissions Division  
1-20-1 Handayama, Higashi-ku, Hamamatsu City, Shizuoka Prefecture 431-3192, Japan

Tel: +81-(0)53-435-2205

## **Overview of Cooperative Major in Medical Photonics**

### **Purpose**

The aim of the Cooperative Major in Medical Photonics is to respond to society's needs and take advantage of the strengths and distinctive features of two universities to train professionals highly skilled in medical photonics. These professionals will master the field of combined medicine and engineering founded on optical technology.

### **Curriculum Policy (Curriculum Design and Implementation)**

In order to train medical photonics professionals to the standard targeted under this cooperative major, the universities will design and implement a curriculum along the lines described below and assess learning outcomes.

#### **1. Specialist knowledge and skills**

The curriculum will offer students a diverse array of courses comprising core subjects, foundation subjects, and specialist subjects. It will enable students to acquire specialist knowledge in the fields of opto-electronics and photomedicine, together with scholarship and skills in medical photonics, which fuses these two fields.

#### **2. Ability to learn independently and practical skills**

The curriculum will offer special research and special seminars in a wide range of specialist subjects and core subjects. In this way, it will cultivate students' ability to put their scholarship and skills in medical photonics to practical use and get them used to acquiring up-to-date knowledge. It will, moreover, cultivate the creativity that will lead to advances in medical engineering and the development of groundbreaking technologies.

#### **3. Well-rounded character and strong ethical awareness**

The curriculum will impart a fundamental understanding of research ethics and medical ethics through lectures. It will, moreover, fully develop and ingrain that ethical awareness through special seminars, special research, and research internships. Meanwhile, communication skills will be fostered through teamwork with researchers in other fields.

#### **4. Ability to contribute to the global community and local communities**

The curriculum will use special research, special seminars, and research internships to cultivate students' ability to communicate research findings in medical photonics from a global perspective.

### **Diploma Policy (Awarding of Degrees)**

A Ph.D. in Medical Photonics will be awarded to students enrolled in the Cooperative Major in Medical Photonics who have acquired the skills below after studying medical photonics fusing the fields of opto-electronics and photomedicine.

#### **1. Specialist knowledge and skills**

Specialist knowledge and skills in opto-electronics and photomedicine and understanding of the challenges and needs that arise on the frontlines of medical care

#### **2. Ability to learn independently and practical skills**

The ability to put specialist knowledge and skills in medical photonics to practical use, and the habit of acquiring up-to-date knowledge. Students should also be able to use these accomplishments to identify challenges and needs that arise on the frontlines of medical care, and to resolve these challenges and needs by collecting the necessary information and analyzing it. In addition, they should be capable of contributing to advances in medical photonics and to the development of groundbreaking technologies.

#### **3. Well-rounded character and strong ethical awareness**

A well-rounded character and communication skills, as well as a strong awareness of research ethics and medical ethics, enabling the student to conduct research into medical photonics on the frontlines of medical care

#### **4. Ability to contribute to the global community and local communities**

The knowledge and skills necessary to spread the word about medical photonics technologies and research findings widely to the global community and local communities

### Cooperative Major in Medical Photonics: List of Full-Time Faculty Members

University	Research Section	Member	Specialized field
Shizuoka University	Basic Medical Photonics	教授 猪川 洋 Prof. Hiroshi Inokawa	○ Photon detection based on single-charge counting ○ Photodetector utilizing surface plasmon and its application to biosensing ○ Performance improvement of thermal photodetector
		教授 岩田 太 Prof. Futoshi Iwata	○ Development of scanning probe microscopy and related techniques for micro and nano meter scale measurement and manipulation
		教授 川田 善正 Prof. Yoshimasa Kawata	○ Super resolution microscopy for bio-imaging ○ Surface plasmon resonance for high sensitive bio-imaging
		教授 三村 秀典 Prof. Hidenori Mimura	○ Study on photonics and electronics using electron beam or semiconductors ○ Development of sensors and light emitting devices.
	Applied Medical Photonics	教授 青木 徹 Prof. Toru Aoki	○ Research and development of functional X-ray CT system based on photon-counting X-ray Imaging devices
		教授 川人 祥二 Prof. Shoji Kawahito	○ Research on pixel devices, imaging circuits and sensor architectures for having high performance and high functionality in image sensors
		教授 佐々木 哲朗 Prof. Tetsuo Sasaki	○ Development of terahertz laser spectrometer for pharmaceutical industry ○ Development of terahertz signal generator for medical imaging applications
		准教授 庭山 雅嗣 Assoc. Prof. Masatsugu Niwayama	○ Research and development of noninvasive hemodynamic measurement using near-infrared spectroscopy ○ Improvement of accuracy and convenience of measurement

Hamamatsu University School of Medicine	Basic Medical Photonics	教授 岩下 寿秀 Prof. Toshihide Iwashita	○Research on the mechanism of organ fibrosis, the development of disease biomarkers, and the application of new microscopic techniques to diagnostic pathology
		教授 浦野 哲盟 Prof. Tetsumei Urano	○ Analyses of spatio-temporal regulatory mechanism of thrombosis formation and its lysis by single-molecular imaging technique
		教授 谷 重喜 Prof. Shigeki Tani	○Development of optical measuring devices for substances and phenomena in the medical field ○Analysis of biological condition by computer simulation.
	Applied Medical Photonics	教授 椎谷 紀彦 Prof. Norihiko Shiiya	○ Evaluation and monitoring of vital organ function using medical photonics in the perioperative period of cardiovascular surgery
		教授 中村 和正 Prof. Katsumasa Nakamura	○Development of technologies for high precision radiation therapy
		教授 星 詳子 Prof. Yoko Hoshi	○ Development and clinical application of near-infrared diffuse optical tomography, Estimation of optical properties of biological tissue ○Elucidation of the neural mechanisms of emotion generation and regulation
		教授 三宅 秀明 Prof. Hideaki Miyake	○Development of image overlay navigation system using advanced radiological techniques for robot-assisted surgery ○ Development of new endoscope system for minimally invasive surgery