

2021 Academic Year

Tohoku University Graduate School of  
Pharmaceutical Sciences  
3-Year Doctoral Program (Second Half)

Student Recruitment Guidelines

(Special Selection Procedures for Foreign Students)

(October 2021 Enrollment)

Applicants who are expected to complete the two-year doctoral program (first half) at the Graduate School of Pharmaceutical Sciences in September 2021 will be selected in accordance with the Program for Students Advancing from Master's Program of this Graduate School, which are specified separately.

April 2021

\*The method of entrance examination may change depending on the status of COVID-19. We will inform you of any changes on the Graduate School of Pharmaceutical Sciences website.

## **Characteristics Expected of Applicants to the Graduate School of Pharmaceutical Sciences**

For the master's course, we are looking for students who have a strong motivation to acquire advanced knowledge and skills in material science and life science in order to foster researchers and technical experts in pharmaceutical sciences, capable of developing basic knowledge and skills acquired during the undergraduate education into advanced knowledge, and possessing a broad range of applied skills from discovery to proper drug use.

For the doctoral course, we are looking for students who have a strong motivation to discover drugs and elucidate molecular mechanisms underlying diseases and contribute to society as future leaders in the field of drug discovery, in order to produce excellent researchers capable of driving cutting-edge research in drug discovery science or clinical pharmaceutical science independently.

For the doctoral course in clinical pharmaceutical science (Doctoral Program (Pharmacy)), we are looking for students who can acquire knowledge and skills in pharmaceutical science, mainly in clinical pharmaceutical science, and play a leading role in medical care as future experts in pharmaceutical sciences, in order to produce researchers/pharmacists who have specialized knowledge/skills and the ability to plan/conduct clinical research as advanced specialist pharmacists and contribute to the clinical development of drugs as prospective leaders in clinical development research/education/healthcare institutions. The Oncology Pharmacist Training Program is for those aiming to become leading oncology pharmacists. The Supergeneralist Pharmacist Training Program seeks students aiming to become pharmacists who, as drug experts in medical care teams, will play leading roles in drug therapy based on advanced analytical pharmaceutical skills.

## **Graduate School of Pharmaceutical Sciences Applicant Screening Methods**

Master's course applicants are screened through the following examinations: general selection, recommendation-based examination, and special selection for foreign students. Doctoral course applicants are screened through the following examinations: transfer examination, special selection for adults, and special selection for foreign students. Clinical pharmacy doctoral course applicants (Doctoral Program (Pharmacy)) are screened through the following examinations: general selection, special selection for adults, and special selection for foreign students. The emphasis in these entrance examinations is on whether the applicant is able and qualified to conduct research in line with our educational principles and goals.

### **Doctoral course**

The transfer examination includes an external test to verify English language proficiency, a written test to assess advanced subject knowledge about pharmaceutical sciences, and an oral examination to evaluate research planning and research competency. In selection, a particular

emphasis is placed on research competency.

The special selection for adults is for those who work, and will continue to work after admission, as engineers, teachers, researchers, and other occupations. It is based on an oral examination to evaluate advanced subject knowledge about pharmaceutical sciences, and research aptitude/planning/competency. In selection, a particular emphasis is placed on research competency.

The special selection for foreign students is for non-Japanese applicants and consists of an external test to verify English language proficiency, a written test to assess advanced subject knowledge about pharmaceutical sciences, and an oral examination to evaluate research aptitude/planning/competency. In selection, a particular emphasis is placed on research competency.

Successful candidates are advised to acquire the ability to apply subject knowledge and skills in the field of pharmaceutical sciences, particularly in their relevant area of expertise; advanced knowledge of discovery, proper drug use, and research based on such knowledge; and English language proficiency sufficient to play an active role internationally in their area of expertise, before admission.

## 1. Majors and Number of Students Admitted

The major subjects of study offered and the numbers of students we admit are shown below.

Major	Major Subjects (Fields)	Number of Students Recruited
Molecular Medical Science	Medicinal Chemistry, Organometallic Chemistry, Synthetic Chemistry, Heterocyclic Chemistry, Molecular Transformation, Natural Products Chemistry, Biointerface Chemistry, Bio-Structural Chemistry, Radiopharmaceutical Chemistry, Molecular Imaging Pharmaceutical Science	A select number of students
Pharmaceutical Life Sciences	Pharmacology, Bio-Analytical Chemistry, Molecular and Cellular Biochemistry, Membrane Transport and Drug Targeting, Health Chemistry, Molecular Biology and Metabolism, Molecular Genetics, Clinical Pharmacology and Therapeutics, Oncology Pharmacy Practice and Science, Pharmacotherapy of Life-Style Related Diseases, Applied Pharmaceutical Sciences, Drug evaluation and regulatory science	

Notes:

Applicants must inquire in advance with the professor in their relevant field (major subject) about research plans and other details following admission (or inquire with an associate professor in their field in case the professor is absent). For Drug evaluation and regulatory science, please contact the Educational affairs section of the Faculty of Pharmaceutical Sciences & Faculty of Pharmaceutical Sciences.

## 2. Application Qualifications

The following may apply for the special selection procedure of international students. International students or those who have completed a course at a graduate school of a foreign university (excluding foreign students who are expected to complete a two-year doctoral program, master's program, or professional degree program [except for those of this graduate school] at a graduate school of Tohoku University) and fall under any of the categories listed below (including those for whom the conditions are expected to be applicable by the end of September 2021). **As a general rule, international students are initially admitted as Research Students, and after they have been part of the school for a certain period of time, they are eligible to apply for special selection. However, these stipulations do not apply for those who are currently enrolled in a master's program in Japan (in a science subject) or in specific cases recognized by this graduate school.**

(1) Those with a master's degree or a professional degree

- (2) Those who have received a degree equivalent to a master's degree or professional degree from the graduate school of a foreign university
  - (3) Those who have taken correspondence courses conducted by foreign universities in Japan and have been awarded a degree equivalent to a master's degree or professional degree
  - (4) Those who have completed a course at an educational facility positioned in the education system of a foreign country designated separately as foreign graduate school courses by Japan's Minister of Education, Culture, Sports, Science and Technology and who have been awarded a degree equivalent to a master's degree or professional degree
  - (5) Those who have completed a course at the United Nations University and have been awarded a degree equivalent to a master's degree
  - (6) Those who have completed a course at a foreign university, foreign educational facility with graduate courses, or the United Nations University, and who have passed the equivalent tests and examinations prescribed in Article 16-2 of the Standards for the Establishment of Graduate Schools (Ministry of Education Ordinance No. 28, 1974) and have been recognized as having academic ability equal to or higher than a person with a master's degree
  - (7) Those designated by the Minister of Education as follows (Ministry of Education Notification No. 118, 1989):
    - a) Those who have graduated from a university and engaged in research for two or more years at a university, research institute, etc., and who this graduate school recognizes as having at least the same academic ability as a person with a master's degree or a professional degree based on the results of that research
    - b) Those who, after completing a 16-year course of school education overseas or after completing a 16-year course of foreign school education by taking correspondence courses conducted by foreign schools in Japan, have been engaged in research for two or more years at a university or research institute and who this graduate school recognizes as having at least the same academic ability as a person with a master's degree or a professional degree based on the results of that research
  - (8) Those who hold a master's degree or a professional degree through individual entrance examination at this graduate school or an equivalent qualification
- Those who are recognized as having the academic qualifications specified above must be 24 years of age by the end of September 2021 in order to be eligible.

Note 1: Those who are expected to complete a master's degree program or a professional degree program (outside of this graduate school) in the first half of the doctoral program at a Tohoku University graduate school and who wish to go on to the three-year doctoral program at this graduate school (including international students), please apply for a transfer entrance examination as detailed in these guidelines.

Note 2: Applicants with application qualification (6) should contact the Registrar of the Graduate School of

Pharmaceutical Sciences & Faculty of Pharmaceutical Sciences by Monday, June 7, 2021 for submissions.

Note 3: The decision about the applicants with application qualification (7) is made in advance; hence, these applicants will need to submit their Graduation Certificate and Certificate of Research Engagement and Summary of Research to Date from among the required documents listed below in Section 3 (1) of the application. Please submit these documents by post to the Educational affairs section of the Graduate School of Pharmaceutical Sciences & Faculty of Pharmaceutical Sciences by Monday, June 7, 2021 .

The result will be notified to the person in question by around Friday, June 18, 2021.

Note 4: Applicants with application qualification (8) will be subject to examination to qualify for admission and should contact the Educational affairs section of the Graduate School of Pharmaceutical Sciences & Faculty of Pharmaceutical Sciences by Monday , June 7, 2021.

Note 5: If you require any additional consideration for health-related or other reasons in relation to taking exams or studying, please contact the Educational affairs section of the Graduate School of Pharmaceutical Sciences & Faculty of Pharmaceutical Sciences by Monday , June 7, 2021.

### 3. Application Procedure

#### (1) Application Documents

Name of Document	Remarks
Application form	A form prescribed by the graduate school.
C.V.	A form prescribed by the graduate school.
Admission ticket for examination and photo card	A form prescribed by the graduate school.
Academic transcript	Issued by the principal of the university (or graduate school) from which the applicant graduated most recently.
Original copy of TOEFL® TEST or TOEIC® TEST score sheet (see note)	<b>About this entrance examination, we carry out English examination (written examination).</b> <b>This measure is a special measure only for this time.</b> <b>Also, even if the original copy of a TOEFL or TOEIC score sheet is submitted at the time of application, it will not be used for pass / fail judgment.</b>  *Students from science-related graduate schools are exempt from the academic aptitude test (Specialist subjects and English) <b>Check with your supervisor for details.</b>
Master's degree certificate or expected graduation certificate	Only applicants with application qualifications (1), (2), (3), (4), or (5) need to submit this.

Graduation certificate and research engagement certificate (variable formats are permissible)	Only applicants with application qualification (7) need to submit a certificate of graduation issued by the head of their university (or undergraduate faculty) and a certification of research conducted for two or more years at a research institute recognized by the graduate school.
Letter of prior approval from a professor in the applicant's desired field	A form prescribed by the graduate school.
Examination permit (variable formats are permissible)	Produced by the head of the applicant's institution. However, only those who are currently working and who will be enrolled while continuing to work should submit this.
Master's dissertation abstract (approximately 2,000 words)	Only applicants with application qualifications (1), (2), (3), (4), or (5) need to submit this.
Summary of research to date	Only applicants with application qualification (7) need to submit this.  Written in Japanese or English.  If written in Japanese, it should be around 2,000 words, and if written in English it should be around 1,000 words.
Examination fee	30,000 yen (if sending by mail, send it with an ordinary postal money order issued by the post office, and do not fill in the designated recipient field).  Payment is not required for those who are expected to complete a master's program or a professional degree program or the first half of a doctoral program at this university in September 2021 as well as government-sponsored international students and those who have applied for an exemption from the application fee. <b>Refer to the following website regarding exemption from the admission fee for disaster victims:</b> ( <a href="http://www.pharm.tohoku.ac.jp/entrance/annai_d.shtml">Http://www.pharm.tohoku.ac.jp/entrance/annai_d.shtml</a> )
Copy of residency card	Only necessary for overseas residents of Japan. A residence qualification issued by the municipal mayor which specifies the period of stay.
Reply envelope	For sending the exam admission tickets, write the address (can only be sent within Japan) on a long-type no. 3 envelope (23.5 × 12 cm) and attach a 374-yen postage stamp (express delivery charge).

Note: TOEFL, TOEFL iBT, TOEFL ITP and TOEIC are registered trademarks of Educational Testing Service (ETS).

## (2) Application Procedure

Applicants should submit the application documents listed in (1) above to the Educational affairs section of the Graduate School of Pharmaceutical Sciences & Faculty of Pharmaceutical Sciences. (Submission method: mail only)

- a) The reception period for applications is from **July15 (Thursday) to July21, 2021 (Wednesday)** (except Saturdays, Sundays, and holidays)
- b) Send applications by mail (by **registered post** and with “**Contains Application Documents**” written in **red ink** on the front of the envelope) to the address below:

**Tohoku University, Registrar of the Graduate School of Pharmaceutical Sciences & Faculty of Pharmaceutical Sciences, 6-3, Aramaki-aza-Aoba, Aoba-ku, Sendai, Miyagi 980-8578**

Applications **must arrive by Wednesday, July 21, 2021** .

**\*We do not accept applications at the counter.**

#### **4. Selection Procedure**

- (1) The selection of applicants will be on the basis of the combined results of an academic aptitude test (Specialist subjects and English) , a research presentation (15 minutes), interview questions (5 minutes), and the application documents. Students from science-related graduate schools are exempt from the academic aptitude test (Specialist subjects and English)
- (2) The academic ability test is conducted in English and Specialist subjects (writing).  
Questions will be given in English with Japanese written alongside. Additionally, answers will be given in English or Japanese unless otherwise indicated in the question.  
Specialized subjects: Applicants should take the test for their desired major subject (field of study). (see Section 1: Table of Majors and Number of Students Recruited)
- (3) Research presentations when selecting new students will be conducted using an LCD projector. Applicants should bring a computer with a file for the presentation (created with PowerPoint or a similar program) and give a presentation on their past research and future research plans. The devices we can connect to are VGA or HDMI. If your computer has a terminal other than VGA or HDMI, please prepare a conversion connector.
- (4) The dates and times for the academic ability test and the interviews are as follows:

Date	Time	Examination Content
August 19 (Thursday)	10:00 – 11:30	Specialist subjects
	13:30 –	English
	15:00 –	Research presentation and interview questions

- (5) The test will be conducted at the Graduate School (6-3, Aramaki-aza-Aoba, Aoba-ku, Sendai, Miyagi).

#### **5. Announcement of Successful Applicants**

The examination numbers of successful applicants will be posted on the graduate school's website **at 17:00 on Wednesday, September 1, 2021**. (<http://www.pharm.tohoku.ac.jp>)

Candidates will also be notified about the selection results. We will not respond to any pass / fail inquiry.

#### **6. Admission Procedure**

- (1) Admission-Related Documents

These will be sent to successful applicants with the notification indicating their selection.



## (2) Necessary Expenses for Admission

Admission fee: 282,000 yen (proposed amount) (Payment period: during (1) admission procedure period described above)

Tuition fee: Half-year, 267,900 yen (yearly amount 535,800 yen) (proposed amount)

Note 1: Tuition fees are automatically deducted from the specified account. Additionally, the amount of payment indicated above is a proposed amount; if the payment amount is revised, the new payment amount will be applied starting from the time of the revision.

Note 2: We will inform successful applicants about their admission fee and tuition fee exemptions, deferred payments, etc. in the admission procedure documents.

Note 3: Successful applicants who fall under Note 1 in the application qualifications section do not need to pay the admission fee (i.e. they are treated as though they are continuing students).

## 7. About the Graduate School of Pharmaceutical Science International Graduate Course

We have set up the Graduate School of Pharmaceutical Science International Graduate Course, which allows the 3-year doctoral program students to obtain a degree through classes and research guidance in English. All applicants admitted through the special selection procedure for international students will be assigned to this course.

See the Tohoku University Graduate School of Pharmaceutical Sciences website (<http://www.pharm.tohoku.ac.jp/education/index.shtml>) for details on the Graduate School of Pharmaceutical Science International Graduate Course.

## 8. System for Long-Term Study

If students have special circumstances (for example, if you currently have a job, are pregnant, have childcare or nursing care-related needs), there is a system for long-term study that allows them to submit a study plan that exceeds the standard study period at the time of admission and, thus, allows them to complete the course. Those who wish to apply for this should contact the Educational affairs section of the Graduate School of Pharmaceutical Sciences & Faculty of Pharmaceutical Sciences.

## 9. Regarding the Handling of Personal Information

- (1) The personal information held by the University will be strictly handled in accordance with the “Regulations on Protection of Personal Information at National University Corporation Tohoku University”, in compliance with laws and regulations such as the Law on the Protection of Personal Information Held by Independent Administrative Corporations. We make every effort to protect personal information.
- (2) Personal information such as the examination results used for the selection of students is used for the purpose of education and in relation to tuition fee collection as well as for the selection of students, admission

procedures, follow-up surveys, and student support relations after admission (scholarship, tuition fee exemption, health management, etc.).

- (3) Entrance examination and academic affairs related work may be performed by a contractor who has received a business consignment from the university. Based on the Regulations on Protection of Personal Information at National University Corporation Tohoku University, all or part of the personal information will be provided to the contractor when outsourcing this work.

## 10. Notes

- (1) Please refer to the website (<http://www.pharm.tohoku.ac.jp>) for more details on this graduate school.
- (2) Please ensure that all application documents are completed in full and without error. Additionally, we cannot respond to requests for the withdrawal of application after we have accepted the application documents, requests to change information entered in an application, or requests for refund of examination fees that have been paid.

- (3) The reference address for entrance examinations is as follows:

Educational affairs section of the Graduate School of Pharmaceutical Sciences & Faculty of Pharmaceutical Sciences (Tel: +81-22-795-6803 Fax: +81-22-795-6805)

6-3 Aramaki-aza-Aoba, Aoba-ku, Sendai, Miyagi 980-8578

E-mail: [pharm-kyom@grp.tohoku.ac.jp](mailto:pharm-kyom@grp.tohoku.ac.jp)

- (4) When requesting the recruitment guidelines and application form by mail, specify the delivery address, recipient name, and zip code, and please enclose a "Letter Pack (Light)".

(N.B. Documents can only be sent to addresses **within** Japan).

You can also download it from the graduate school website (<http://www.pharm.tohoku.ac.jp>).

- (5) Access to the entrance examination center from Sendai Station:

Sendai City Subway, Tozai Line

Get off at Aobayama Station on the subway to Yagiyama Zoological Park, and walk for 10 minutes from North Exit 1.

April 2021

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T e l : 0 2 2 - 7 9 5 - 6 8 0 3