

**Graduate School of Medicine and
Pharmaceutical Sciences**

**Ph.D. Program in the Department of
Pharmaceutical Sciences**

**Admission Guidelines
(Second Recruitment)**

For Admission in April 2022

General Admission

Special Admission for Working Students

Special Admission for International Students

November 2021

University of Toyama

Due to the spread of the novel coronavirus infection (COVID-19), the contents of these guidelines for recruitment of students may be changed.
Please be sure to obtain the latest information from the following website.
<https://www.u-toyama.ac.jp/>

Table of Contents

Admission Policy	1
General Admission	1
1. Capacity	
2. Eligibility	
3. Selection Method	
Special Admission for Working Students	3
1. Capacity	
2. Eligibility	
3. Selection Method	
Special Admission for International Students	5
1. Capacity	
2. Eligibility	
3. Selection Method	
Information for All Applicants	6
1. Application Procedure	
2. Notification of Acceptance	
3. Admission Procedure	
4. Privacy Policy	
5. Cautions	
6. Use of scores on external English examination	
7. Security Export Control	
• Payment Flow of Entrance Examination Fee	
Overview of the Ph.D. Program in the Department of Pharmaceutical Sciences	13
1. Purpose	
2. Standard Term of Study and Required Credits	
3. List of Subjects	
4. List of Academic Advisors and Their Research Fields Themes	
5. Customized Schedule	
6. Conferral of Degree	
7. Courses for Developing Highly Skilled Professionals	
Appendix I List of Subjects	15
Appendix II List of Academic Advisors and Their Research Themes List of Subjects	16

Although recruitment of students for the Ph.D. program (for entrance in April 2022) in the Department of Pharmaceutical Sciences of the Graduate School of Medicine and Pharmaceutical Sciences of this university is implemented twice, the second recruitment of students will be implemented based on these guidelines.

The first recruitment of students was implemented at August 2021.

Admission Policy

This program, based on its aim of nurturing human resources as is shown in the policy of certifying completion of the program and granting degrees (diploma policy), accepts such applicants seeking to be researchers, educators and technicians who can play in the future an active role in the fields of pharmaceutical science and its interdisciplinary studies, with willingness to conduct the cutting edge research on the science of developing new drugs and life science.

General Admission

1. Capacity

Department	Number of Students Accepted	Remarks
Pharmaceutical Sciences	A few	Includes the number of students recruited for working students and international students.

Note: Applicants should consult with the academic advisor for their desired area of study prior to submitting their application.

2. Eligibility

The following persons are eligible to apply:

- (1) Persons who hold a master's degree or a professional degree (under Article 104, Paragraph 1 of the School Education Act and 1953 Ministry of Education Ordinance No. 9, Article 5, Paragraph 2), or persons scheduled to fulfill said requirement by March 2022
- (2) Persons who hold a degree equivalent to a master's degree or a professional degree in a foreign country, or persons scheduled to fulfill said requirement by March 2022
- (3) Persons who hold a degree equivalent to a master's degree or a professional degree after having completed, while residing in Japan, the required courses in distance education conducted by a school outside of Japan, or persons scheduled to fulfill said requirement by March 2022
- (4) Persons who hold a degree equivalent to a master's degree or a professional degree after having completed, while residing in Japan, a program at an educational institution that provides courses for a foreign graduate school accredited under the school education system of the relevant foreign country and that is specifically designated as such by the Minister of Education, Culture, Sports, Science and Technology of Japan, or persons scheduled to fulfill said requirement by March 2022
- (5) Persons designated by the Minister of Education, Culture, Sports, Science and Technology of Japan (1989 Ministry of Education Notification No. 118)
 - a. Persons who, after graduating from university, engaged in at least two years of research at a university or research institute and, based on the resulting research achievements, have been recognized as having academic ability equal to or higher than that of a person holding a master's degree or professional degree
 - b. Persons who, after completing a 16-year course of study in the educational institutions of a foreign country, or after completing a 16-year course of study in the educational institutions of the relevant foreign country by taking in Japan the required courses in distance education conducted by a school outside of Japan, engaged in at least 2 years of research at a university or research institute and, based on the resulting research achievements, have been recognized by the

Graduate School of Medicine and Pharmaceutical Sciences as having academic ability equal to or higher than that of a person holding a master's degree or professional degree

- (6) Persons who are 24 years of age or older at the time of entrance, and after having undergone the preliminary qualification screening and have been determined to have a level of academic ability equal to or higher than that of a person holding a master's degree or professional degree
- (7) Persons who hold or are expecting to obtain a master's degree or equivalent by the end of March 2022, after completion of a course at the United Nations University (hereinafter referred to as UNU) 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), which was established under the resolution of the General Assembly of the United Nations on December 11, 1972.
- (8) Persons who have been recognized by the Graduate School of Medicine and Pharmaceutical Sciences as having academic ability equal to or higher than that of a person holding a master's degree after having completed the required course at the United Nations University or an educational institution in a foreign country described in (4) and who have passed the examination or screening prescribed in Article 16 paragraph 2 of the Rules on Graduate Schools, or the equivalent of the examination or screening.

Note: Applicants who fall into categories (5),(6)or(8) are required to undergo preliminary qualification screening in advance. Please refer to Information for All Applicants, 1 Application Procedures, (4) Application for Approval of Eligibility.

3. Selection Method

Applicants are selected on the basis of the results of a written examination, an oral examination and an external English examination (only applicable persons, refer to “6 Use of scores on external English examination” on page 10), as well as an evaluation of academic transcripts.

(1) Written Examination

- Specialized subjects: Applicants select one subject from among Pharmacology, Biochemistry, Organic Chemistry, Physical Chemistry, Pharmaceutics and Pharmacognosy.
- Foreign language: English (Specialized)
 - ※1 Applicants who submit a score sheet for an external English examination will be exempted from a written English examination.
 - ※2 Applicants who completed the Master's Program in the Department of Pharmaceutical Basic Sciences of Graduate School of Medicine and Pharmaceutical Sciences, University of Toyama will be exempted from a written examination.

(2) Oral Examination

An oral examination on the master's thesis, related research papers, and other specialized subjects is conducted.

(3) Examination Schedule and Venue

Date	Time	Subject	Venue
Feb. 4 (Friday), 2022	9:30 ~ 11:30	Specialized subjects	University of Toyama Sugitani Campus (Medicine and Pharmaceutical Sciences), 2630 Sugitani, Toyama City, Toyama
	13:00 ~ 14:00	Foreign language (English (Specialized))	
	15:00 ~ (planned)	Oral examination	

Note: The starting time for the oral examination is subject to change, depending on the number of applicants. Should the starting time change, applicants will be notified when examination admission cards are sent.

Special Admission for Working Students

1. Capacity

Department	Number of Students Accepted	Remarks
Pharmaceutical Sciences	A few	

Notes:

- Applicants should consult with the academic advisor for their desired area of study prior to submitting their application.
- Working students are given special consideration, including scheduling of classes and research guidance in the evenings or at other specific times to avoid conflicts with work schedules, if considered necessary from an educational standpoint. This special consideration is given in accordance with “special cases with regard to the method of education stipulated in Article 14 of the Requirements for Establishing Graduate Schools”.

2. Eligibility

Persons who work in a variety of research institutions, educational institutions, or in companies as professionals such as researchers, or who will work for such institutions or companies beginning in April 2022, and to whom any of the following items applies are eligible to apply for admission.

- (1) Persons who hold a master’s degree or a professional degree (under Article 104, Paragraph 1 of the School Education Act and 1953 Ministry of Education Ordinance No. 9, Article 5, Paragraph 2), or persons scheduled to fulfill said requirement by March 2022
- (2) Persons who hold a degree equivalent to a master’s degree or a professional degree in a foreign country, or persons scheduled to fulfill said requirement by March 2022
- (3) Persons who hold a degree equivalent to a master’s degree or a professional degree after having completed, while residing in Japan, the required courses in distance education conducted by a school outside of Japan, or persons scheduled to fulfill said requirement by March 2022
- (4) Persons who hold a degree equivalent to a master’s degree or a professional degree after having completed, while residing in Japan, a program at an educational institution that provides courses for a foreign graduate school accredited under the school education system of the relevant foreign country and that is specifically designated as such by the Minister of Education, Culture, Sports, Science and Technology of Japan, or persons scheduled to fulfill said requirement by March 2022
- (5) Persons designated by the Minister of Education, Culture, Sports, Science and Technology of Japan (1989 Ministry of Education Notification No. 118)
 - a. Persons who, after graduating from university, engaged in at least two years of research at a university or research institute and, based on the resulting research achievements, have been recognized as having academic ability equal to or higher than that of a person holding a master’s degree or professional degree
 - b. Persons who, after completing a 16-year course of study in the educational institutions of a foreign country, or after completing a 16-year course of study in the educational institutions of the relevant foreign country by taking in Japan the required courses in distance education conducted by a school outside of Japan, engaged in at least 2 years of research at a university or research institute and, based on the resulting research achievements, have been recognized by the Graduate School of Medicine and Pharmaceutical Sciences as having academic ability equal to or higher than that of a person holding a master’s degree or

- professional degree
- (6) Persons who are 24 years of age or older at the time of entrance, and after having undergone the preliminary qualification screening and have been determined to have a level of academic ability equal to or higher than that of a person holding a master's degree or professional degree
- (7) Persons who hold or are expecting to obtain a master's degree or equivalent by the end of March 2022, after completion of a course at the United Nations University (hereinafter referred to as UNU) 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), which was established under the resolution of the General Assembly of the United Nations on December 11, 1972.
- (8) Persons who have been recognized by the Graduate School of Medicine and Pharmaceutical Sciences as having academic ability equal to or higher than that of a person holding a master's degree after having completed the required course at the United Nations University or an educational institution in a foreign country described in (4) and who have passed the examination or screening prescribed in Article 16 paragraph 2 of the Rules on Graduate Schools, or the equivalent of the examination or screening.

Note: Applicants who fall into categories (5),(6)or(8) are required to undergo preliminary qualification screening in advance. Please refer to Information for All Applicants, 1 Application Procedures, (4) Application for Approval of Eligibility.

3. Selection Method

Applicants are selected on the basis of the results of a written examination, an oral examination and an external English examination (only applicable persons, refer to “6 Use of scores on external English examination” on page 10), as well as an evaluation of academic transcripts.

(1) Written Examination

- Specialized subjects: Applicants select one subject from among Pharmacology, Biochemistry, Organic Chemistry, Physical Chemistry, Pharmaceutics and Pharmacognosy.
- Foreign language: English (Specialized)
 - ※1 Applicants who submit a score sheet for an external English examination will be exempted from a written English examination.
 - ※2 Applicants who completed the Master's Program in the Department of Pharmaceutical Basic Sciences of Graduate School of Medicine and Pharmaceutical Sciences, University of Toyama will be exempted from a written examination.

(2) Oral Examination

An oral examination on the master's thesis, related research papers, and work experience is conducted.

(3) Examination Schedule and Venue

Date	Time	Subject	Venue
Feb. 4 (Friday), 2022	9:30 ~ 11:30	Specialized subjects	University of Toyama Sugitani Campus (Medicine and Pharmaceutical Sciences), 2630 Sugitani, Toyama City, Toyama
	13:00 ~ 14:00	Foreign language (English (Specialized))	
	15:00 ~ (planned)	Oral examination	

Note: The starting time for the oral examination is subject to change, depending on the number of applicants. Should the starting time change, applicants will be notified when examination admission cards are sent.

Special Admission for International Students

1. Capacity

Department	Number of Students Accepted	Remarks
Pharmaceutical Sciences	A few	

Note: Applicants should consult with the academic advisor for their desired area of study prior to submitting their application.

2. Eligibility

Persons of foreign nationality to whom any of the following items applies are eligible to apply for admission.

- (1) Persons who hold or expect to obtain a master's degree or professional degree in a foreign country by March 2022
- (2) Persons who are 24 years of age or older at the time of entrance, and after having undergone the preliminary qualification screening and have been determined to have a level of academic ability equal to or higher than that of a person holding a master's degree or professional degree

Note: Applicants to whom (2) above applies are required to undergo a preliminary qualification screening in advance. Please refer to (4) Application for Approval of Eligibility in "Information for All Applicants"

3. Selection Method

Applicants are selected on the basis of the results of a written examination, an oral examination and an external English examination (only applicable persons, refer to "6 Use of scores on external English examination" on page 10), as well as an evaluation of academic transcripts.

(1) Written Examination

- Specialized subjects: Applicants select one subject from among Pharmacology, Biochemistry, Organic Chemistry, Physical Chemistry, Pharmaceutics and Pharmacognosy.
- Foreign language: English (Specialized)
 - ※1 Applicants who submit a score sheet for an external English examination will be exempted from a written English examination.
 - ※2 Applicants who completed the Master's Program in the Department of Pharmaceutical Basic Sciences of Graduate School of Medicine and Pharmaceutical Sciences, University of Toyama will be exempted from a written examination.

(2) Oral Examination

An oral examination on the master's thesis, related research papers, and other specialized subjects is conducted.

(3) Examination Schedule and Venue

Date	Time	Subject	Venue
Feb. 4 (Friday), 2022	9:30 ~ 11:30	Specialized subjects	University of Toyama Sugitani Campus (Medicine and Pharmaceutical Sciences), 2630 Sugitani, Toyama City, Toyama
	13:00 ~ 14:00	Foreign language (English (Specialized))	
	15:00 ~ (planned)	Oral examination	

Note: The starting time for the oral examination is subject to change, depending on the number of applicants. Should the starting time change, applicants will be notified when examination admission cards are sent.

Information for All Applicants

1. Application Procedure

(1) Method of Application

After paying the examination fee, write the applicable item from 2) below on an envelope in red ink and post the application documents by registered express mail.

1) Application Period

From December 13 (Monday), 2021 to January 7 (Friday), 2022 (as indicated by postmark)

Mailing address: Educational Affairs Division of Medicine and Pharmaceutical Sciences Majors (in charge of admission), University of Toyama, 2630 Sugitani, Toyama 930-0194

For information on the Method of Examination Fee Payment, refer to (3) Method of Examination Fee Payment.

Students currently enrolled in University of Toyama graduate schools who seek to enroll in the Graduate School of Medicine and Pharmaceutical Sciences (Ph.D. Program) are not required to pay the examination fee.

2) Items to Be Written on the Envelope

- **General Admission**

Contains an application for the Graduate School of Medicine and Pharmaceutical Sciences (Ph.D. Program General Admission)

- **Special Admission for Working Students**

Contains an application for the Graduate School of Medicine and Pharmaceutical Sciences (Ph.D. Program Special Admission for Working Students)

- **Special Admission for International Students**

Contains an application for the Graduate School of Medicine and Pharmaceutical Sciences (Ph.D. Program Special Admission for International Students)

(2) Application Documents

Documents		Applicable Documents
1)	Application for Admission	Prepared using the University's prescribed form
2)	Certificate of (expected) completion of a master's program	Prepared by the president or dean of the issuing university (graduate school) (Not required for graduates from the master's course of the University of Toyama.)
3)	Academic transcript from the graduate school of the university which the applicant has graduated	Prepared and sealed by the president or dean of the graduate school of the university If forge-proof/copy-prevention paper is used, wax-sealing of the envelope is not necessary.
4)	Academic transcript from the undergraduate faculty of the university from which the applicant has graduated	Prepared and sealed by the president or dean of the university (undergraduate faculty) If forge-proof/copy-prevention paper is used, wax-sealing of the envelope is not necessary.
5)	Master's thesis or equivalent	One copy (Persons applying for eligibility approval and applicants taking the special admission for working students may submit their Research Paper List (Including Academic Conference Presentations) on the prescribed form of the University of Toyama, in lieu of a master's thesis.)

6)	Summary of the above thesis	Two copies Prepare a summary of a maximum length of one page of A-4 size paper that includes the thesis title and the author's name. (When attaching figures, use a separate page, for a maximum length of two pages). Use body text 11 points or larger in size and top, bottom, left, and right margins of at least 20 mm. (Persons applying for eligibility approval and applicants taking the special admission for working students may submit a summary of research and/or work details of a maximum length of 800 words on A-4 size papers in lieu of a thesis summary.)
7)	Examination Admission Card / Photo Identification Card	Prepared using the University's prescribed form. Attach a photograph (upper body photo of the applicant alone taken full face with no head covering within three months of the application (4 cm in length x 3 cm in width)).
8)	Certificate of payment (Examination Fee)	Download and print out the Certificate of Payment. Cut along the dotted lines to get your certificate of payment, then paste it on its designated location in the application form. Persons currently enrolled in a master's program at the University of Toyama who seek to enroll in the Graduate School of Medicine and Pharmaceutical Sciences (Ph.D. Program) are not required to pay the examination fee.
9)	Letter of Approval for Entrance Examination	Applicants who are enrolled in a graduate school elsewhere than at the University of Toyama or who are employed at a public office or private company are required to submit an approval for examination signed by the dean of their graduate school or their immediate supervisor at work. (No specific format required)
10)	Copy of the Certificate of Residence	For a foreigner who now lives in Japan, please attach a copy of the certificate of residence issued by the head of municipal government or a copy of both sides of the residence card.
11)	Stamped, self-addressed envelope	Used to post the Examination Admission Card. Please write your name, address, and postal code on a No. 3 long envelope (23.5 cm x 12 cm) and attach postage stamps to the amount of ¥344 (special delivery).
12)	Mailing label (used to post the notice of examination results)	Prepared using the University's prescribed form. Write your name, address, and postal code.
13)	TOEFL/TOEIC score sheet (original) (applicants who wish to use a score for an external English examination)	Applicants who have taken any of the following examinations are requested to submit the original score sheet. (We will return it in the reply envelope after photocopying it.) (1) TOEFL-iBT score report for the applicant (2) TOEFL-ITP score report (3) TOEIC L&R Official Score Certificate (4) TOEIC L&R-IP Score Report Only score sheets issued on or after September 1, 2018 are valid.
14)	Pledge (for a foreigner)	Prepared using the University's prescribed form. Please see "7 Security Export Control" on page 11.

※ Documents written in a foreign language other than English must be accompanied by documents translated into Japanese or English.

(3) Method of Examination Fee Payment

Please pay the examination fee of 30,000 yen according to "Payment Flow of Entrance Examination Fee" on page 12.

The Entrance Examination Fee Payment Website

<https://e-apply.jp/n/toyama-gs-payment/>

Cautions

- The applicant must pay the handling fee in addition to the examination fee.
- Please enter the same personal information as the application for admission on the payment form.
- The examination fee can be paid one week in advance to the application period. Persons currently enrolled in a master's program at the University of Toyama who seek to enroll in the Graduate School of Medicine and Pharmaceutical Sciences (Ph.D. Program) are not required to pay the examination fee.

Examination fees cannot be refunded for any reason except in the following cases:

- 1) The applicant does not apply to the University of Toyama after remitting the examination fee (The applicant does not submit the application documents, or the application documents are not received.)
- 2) Double payment
- 3) Payment exceeding the required amount

Note: When applying to the University of Toyama for an examination fee refund, affix the slip of the Certificate of Payment (Examination fee) to the designated Examination Fee Refund Request Form, and mail it to the University of Toyama.

Mailing address: Accounting Division, Financial Affairs Division, University of Toyama, 3190 Gofuku, Toyama 930-8555

Telephone: (076) 445-6053 From abroad: +81-76-445-6053

(4) Application for Approval of Eligibility

Individual eligibility screening is conducted for persons who seek to apply based on eligibility qualifications (5), (6) or (8) qualification (2) in the case of the special admission for international students). Applicants should submit the following documents to the Educational Affairs Group of Medicine and Pharmaceutical Sciences Majors (in charge of admission), Student Academic Affairs Division, University of Toyama by December 3 (Friday), 2021.

- Eligibility Approval Screening Form (University of Toyama prescribed form)
- Academic transcript and certificate of graduation from the school last attended
- Summary of research and work details
- Research Paper List (Including Academic Conference Presentations)
(University of Toyama prescribed form)

Applicants will be notified of the results of eligibility screening by December 17 (Friday), 2021.

(5) Advance Consultation for Applicants with a Disability

Since applicants with a disability may require special consideration when taking the entrance examination or attending school, they are requested to consult with the Educational Affairs Group of Medicine and Pharmaceutical Sciences Majors (in charge of admission), University of Toyama in advance.

At the time of consultation, applicants may be requested to submit a document containing the following matters and a doctor's certificate.

- Type and degree of disability
- Matters requiring special consideration at the time of the entrance examination
- Matters requiring special consideration at the time of school attendance
- Circumstances of daily life and other matters for reference

- 1) Consultation deadline: December 3 (Friday), 2021.

- 2) Contact information: Educational Affairs Group of Medicine and Pharmaceutical Sciences Majors (in charge of admission), University of Toyama, 2630 Sugitani, Toyama 930-0194
Telephone: (076) 434-7658 From abroad: +81-76-434-7658

2. Notification of Acceptance

The examinee's numbers of successful applicants will be posted at the front entrance of the University of Toyama Sugitani Campus School of Pharmacy and Pharmaceutical Sciences Bldg. at 3:00 pm on February 18 (Friday), 2022, and the successful applicants will be notified. Telephone and facsimile inquiries will not be accepted.

3. Admission Procedure

The enrollment procedure is as follows. Successful applicants will be given more details.

(1) Enrollment Date

For Admission in October 2021: September 10 (Friday), 2021 (planned)

For Admission in April 2022: middle of March 2022 (planned)

(2) Place: University of Toyama Sugitani Campus

(3) Documents Required for Admission

Notice of Acceptance, color photograph (4 cm in length x 3 cm in width), written pledge of school enrollment (University of Toyama prescribed form)

(4) Expenses Required for Admission

a) Admission fee: ¥282,000 (provisional amount)

- Notes: 1) The above admission fee is a provisional amount. Should the admission fee be revised, the new admission fee will become effective at the time of the revision.
2) Once paid, admission fees cannot be refunded for any reason.

b) Other matters

- 1) In cases where payment of the admission fee is judged to be difficult, after screening an exemption may be granted, or collection may be postponed.
- 2) Tuition is paid after admission. Information on the tuition amount and payment method is provided at the time of enrollment.
Reference information: Tuition for the 2021-2022 year is ¥535,800.
- 3) Scholarships are available through the Admission Office.
- 4) Students are required to pay the cost of Personal Accident Insurance for Students Pursuing Education and Research and other items separately.

(5) Cautionary Statement

Persons who fail to complete the admission procedure by the deadline will be considered to have declined admission.

4. Privacy Policy

Personal information held by the University is handled in accordance with the Act on the Protection of Personal Information Held by Administrative Organs and the University of Toyama Policies on Personal Information Protection

- (1) Names, addresses, and other personal information that the University of Toyama obtains from applicants will be used for 1) the selection of students (processing of applications and the selection process), 2) announcement of successful applicants, 3) enrollment procedures, 4) investigation and research for the selection process, and 5) other related activities.

- (2) Personal information obtained from persons who have completed the admission procedures will be used for preparatory education before admission and for 1) instruction and administration (the school register, student guidance, etc.), 2) student assistance (health management, application for tuition exemptions and scholarships, employment assistance, etc.), 3) the collection of tuition after admission, and 4) statistical survey and data analysis.
- (3) Only the examinee's numbers, names and addresses of successful applicants may be used to facilitate contact by organizations related to after-school activities, the alumni association, the support association, and the student cooperative association of the University of Toyama.

Note: Successful applicants who do not wish to be contacted by the abovementioned organizations should notify the Educational Affairs Division of Medicine and Pharmaceutical Sciences Majors (in charge of admission), University of Toyama to that effect.

- (4) The University of Toyama may partially outsource operations to commissioned companies (hereinafter referred to as "Contractors"). We may provide said Contractors with all or part of the personal information obtained through the application process as required for the execution of contracted business. We supervise the use of information to ensure compliance with confidentiality.

5. Cautions

- (1) If there is any defect in the application documents, the application may not be accepted.
- (2) If there is a shortage in the examination fee payment, the application shall not be accepted.
- (3) Once accepted, the application documents and related materials shall not be returned for any reason.
- (4) If any of the information provided in the submitted documents is found to be false even after acceptance for admission, the admission of a successful applicant may be cancelled.
- (5) Please forward any inquiry about application or other matters to the following address:

Educational Affairs Division of Medicine and Pharmaceutical Sciences Majors
(in charge of admission), University of Toyama, 2630 Sugitani, Toyama 930-0194

Telephone: (076) 434-7658 From abroad: +81-76-434-7658

6. Use of scores on external English examination

Applicants who have submitted their official scores on the TOEFL-iBT, TOEFL-ITP, TOEIC L&R, or TOEIC L&R-IP are not requested to take a written English examination; the score submitted by the student will be used for evaluation. The score conversion formulae are shown below. Only applicants who cannot submit their official scores on the TOEFL-iBT, TOEFL-ITP, TOEIC L&R, or TOEIC L&R-IP are requested to take a written English examination.

Scores on the TOEFL-iBT, TOEFL-ITP, TOEIC L&R, or TOEIC L&R-IP are converted into points out of 100, and used for the evaluation.

If an applicant has taken two or more examinations, the highest score will be used for the evaluation.

Scores submitted must have been issued on or after September 1, 2018.

<Score conversion formulae>

1) TOEFL-iBT

70 or higher = 100 points

In the case of lower than 70 :

Converted score: $100 \times (\text{TOEFL-iBT score}) / 70$

2) TOEFL-ITP

525 or higher = 100 points

In the case of lower than 525 :

Converted score: $100 \times \{(\text{TOEFL-ITP score}) - 310\} / 215$

310 or lower = 0 point

3) TOEIC L&R and TOEIC L&R-IP

730 or higher = 100 points

In the case of lower than 730 :

Converted score: $100 \times (\text{TOEIC score}) / 730$

7. Security Export Control

The University of Toyama has established the "University of Toyama Security Export Control Regulations" based on the "Foreign Exchange and Foreign Trade Act", and strictly screening the International students in the perspective of providing technology and export of research equipment and materials. If International students who fall under any of the regulated items, you may not be able to get the permission to enrol, and receive the desired education at the university. There may be restrictions on your desired research activities.

International students should consult their academic advisor before applying and are required to sign a pledge to comply the "Foreign Exchange and Foreign Trade Act" at the time of application.

For more information, please visit the University website.

[Reference] "University of Toyama Security Export Control Regulations"

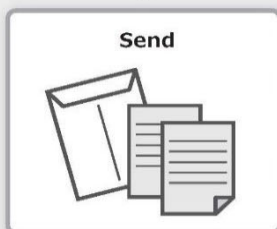
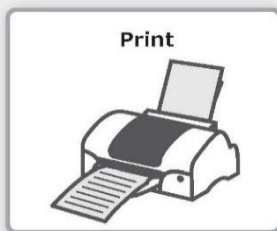
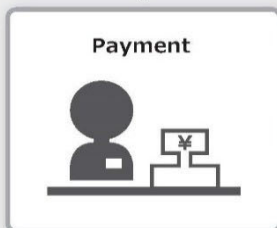
URL <http://www3.u-toyama.ac.jp/soumu/kisoku/pdf/0110401.pdf>

Payment Flow of Entrance Examination Fee

Prepare an Email address, a computer that is connected to the Internet, and printer.



Your application is NOT complete until you have registered your information in the entrance examination fee payment website.
Send us the required documents and the examination fee payment certificate to University of Toyama.



STEP 1 Go to the Entrance Examination Fee Payment Website

The Entrance Examination Fee Payment Website

▶ <https://e-apply.jp/n/toyama-gs-payment/>
or

Official Website of University of Toyama

▶ <https://www.u-toyama.ac.jp/admission/graduate-exam/graduate/>

STEP 2 Register Personal Information

- 1) Make sure you follow the screen procedures and important notices.
- 2) Choose the payment method of entrance examination fee.
- 3) Enter the required information and record the payment processing number.

STEP 3 Pay Entrance Examination Fee

【Pay at the Convenience Store, Pay-easy ATM banks, Internet banking】

Make a payment at the convenience stores (Seven Eleven, Lawson, Ministop, Family Mart, Daily Yamazaki, and Seico Mart), Pay-easy ATMs of Post offices or Banks, and internet banking.

※ Payment can not be made at stores outside Japan.

【Pay with Credit Card】

Make sure the card number, expiration date, card holder name, and security code, to pay the fee.

(Accepted Credit Cards)

VISA, Master, JCB, AMERICAN EXPRESS, MUFG Card, DCCard, UFJCard, NICOSCard

STEP 4 Print out the Certificate of Payment

The Entrance Examination Fee Payment Website

▶ <https://e-apply.jp/n/toyama-gs-payment/>

Click on "Review" button to download and print out the Certificate of Payment. Cut along the dotted lines to get your certificate of payment, then paste it on its designated location in the application form.

STEP 5 Send all application documents

Send the form with pasted certificate of payment and all other application documents, via registered express mail at the post office, within the application submission deadline.

※ See the details of each school/graduate school for application guide.



● Make sure the information you enter is correct, as you will not be able to revise/change any of this information after registration is complete. However you may re-register the correct information and "revise" the information this way, as long as it is before you have made the payment.

※ Take notice that if you chose to pay with your credit card, the payment will be made as soon as you register your personal information.

Overview of the Ph.D. Program in the Department of Pharmaceutical Sciences

1. Purpose

This Ph.D. program in the department of pharmaceutical sciences offers instruction and research pertaining to the latest cross-disciplinary drug discoveries, and instruction pertaining to natural medicine and clinical pharmacy. It produces graduates who will apply the knowledge and technology acquired in the course to play an active role in pharmacy-related fields, including research into new drugs.

2. Standard Term of Study and Required Credits

(1) Term

The term for the Ph.D. Program in the Department of Pharmaceutical Sciences is three years as a standard.

(2) Credit standard

The requirements for the Ph.D. program in the department of pharmaceutical sciences are enrollment in the University of Toyama Graduate School for a period of three or more years, receiving research guidance from academic advisors, obtaining 20 or more credits in total (two or more credits for lectures on the subjects in the major field, four or more credits for practice on pharmaceutical sciences and 14 or more credits for special research on pharmaceutical sciences under the supervision of academic advisors), and successful completion of a screening of a doctoral dissertation and final examination after having obtained the necessary research guidance. However, a doctorate may be conferred on a student who has been enrolled in the Graduate School for a period of two years or longer, and has achieved excellent research results.

In the high-level professional course based on natural medicine, students must acquire internships, and practice in pharmaceutical formulation development or practice in pharmacokinetics in addition to the above credits.

If a student presents his or her plan to take and complete the program systematically over a certain period beyond the standard course term (3 years) due to special circumstances such as working outside the campus, the systematic course curriculum may be accepted.

3. List of Subjects

See Appendix I.

4. List of Academic Advisors and Their Research Themes

See Appendix II.

5. Customized Schedule

An eligible student may receive a customized schedule following submission of a study plan and consultation with the academic advisor. A customized schedule allows a student to take classes and receive research guidance in the evening from 6:10 to 9:20 pm from Monday through Friday in addition to the time allotted during the day. Depending on the subject, a student may be able to take classes at other times as well, such as on Saturdays or during the summer vacation.

Period I	8:45 am to 10:15 am	Period II	10:30 am to 12:00 pm	Period III	1:00 pm to 2:30 pm
Period IV	2:45 pm to 4:15 pm	Period V	4:30 pm to 6:00 pm		
Period VI	6:10 pm to 7:40 pm	Period VII	7:50 pm to 9:20 pm		

6. Conferral of Degree

The degree offered is a Doctor of Philosophy in Pharmaceutical Sciences.

7. Course for Developing Highly Skilled Professionals

The Graduate School of Medicine and Pharmaceutical Sciences offers the program for developing highly skilled professionals based on natural medicine and pharmaceutical sciences (PDNP). The Graduate School accepts students from Japan, China, Korea, ASEAN, and other countries and cultivates human resources who will contribute to the field of pharmacological therapy through team medicine in medical practice, as well as excellent human resources involved in pharmaceutical research, and in the development and quality control of medicines in pharmaceutical companies.

The Graduate School also contributes to the development of the field of Pharmaceutical Sciences based on the historical traditions of the Toyama area, use of the seeds accumulated at the University of Toyama through research and education, and cooperation among universities in Asia through this project. The pharmaceutical sciences course offers a program to develop professional experts in natural medicine through long-term internships at pharmaceutical companies with in-depth knowledge of natural medicine. There, students gain comprehensive experience that includes research, development and quality control of medicines.

In the high-level professional course based on natural medicine, students are not only obtaining 20 or more credits in total, but also acquire four credits for internship and one credit for practice in Pharmaceutical Formulation Development or practice in Pharmacokinetics.

Appendix I

List of Subjects

Subject Name	Year	Credits			Remarks
		Requirement	Elective	Optional	
Molecular Biopharmaceutical Sciences	1・2		2		
Molecular Medicinal Science	1・2		2		
Advanced Lecture in Advanced Oriental and Western Medicine	1・2		2		
Practice in Pharmaceutical Formulation Development	2・3		1		
Practice in Pharmacokinetics	2・3		1		
International Pharmaceutical Sciences	1・2		2		
Internships	2・3		4		
Seminar for Pharmaceutical Sciences	1~3	4			
Special Research for Pharmaceutical Sciences	1~3	14			
Research Ethics and Methods	1~3			1	e-Learning
Japanese Language・Culture	1・2			4	for foreign student
Total		18	14	5	

Appendix II

List of Academic Advisors and Their Research Themes

Educational Field	Academic Advisor	Research Themes
Biopharmaceutics	Professor HOSOYA Ken-ichi	<ul style="list-style-type: none"> • Blood-retinal barrier transport function analysis and drug delivery to the retina • Blood-retinal barrier cell reconstruction and analysis of interaction between cells • Elucidation of biological function and transport function in in vivo barrier tissue
Applied Pharmacology	Professor KUME Toshiaki	<ul style="list-style-type: none"> • Elucidation of pathogenesis mechanisms of neurodegenerative diseases, pruritus, pain and dysesthesia and search and development of preventive and therapeutic drugs for these disorders. • Establishment of novel animal models that exhibit the brain diseases and the sensory symptoms, such as itch, pain and dysesthesia • Search for cytoprotective substances derived from foods and plants
Biorecognition Chemistry	Professor TOMOHIRO Takenori	<ul style="list-style-type: none"> • Chemical biology for efficient drug discovery: target identification, visualization, utilization, and manipulation • Drug activity-based functional proteomics • Synthetic multicomponent integration strategy toward chemical biology and drug discovery
Cancer Cell Biology	Professor SAKURAI Hiroaki	<ul style="list-style-type: none"> • Elucidation of the molecular mechanisms of tumor progression via inflammatory signaling pathways • Study on the activation mechanisms of molecular targets in cancer therapy • Study on the intracellular signals in malignant progression of melanoma
Chemical Biology	Professor INOUE Masahiko Associate Professor CHIBA Junya	<ul style="list-style-type: none"> • Chemical biology based on synthetic chemistry, particularly three projects in artificial DNA, protein control, and saccharide recognition
Synthetic and Medicinal Chemistry	Professor MATSUYA Yuji	<ul style="list-style-type: none"> • Development of new organic reactions for drug discovery • Search for novel seeds of new drugs and structure-activity relationship research • Synthesis and structural optimization of bioactive compounds
Molecular Neurobiology	Associate Professor TABUCHI Akiko	<ul style="list-style-type: none"> • Elucidation of the molecular mechanisms underlying regulation of neuronal function and plasticity by gene expression and cellular communication between synapses and a nucleus • Studies on neurological disorders caused by dysfunction of transcription factors and synaptic molecules • Basic studies on transcription factors and synaptic molecules toward drug development targeted for neurological disorders

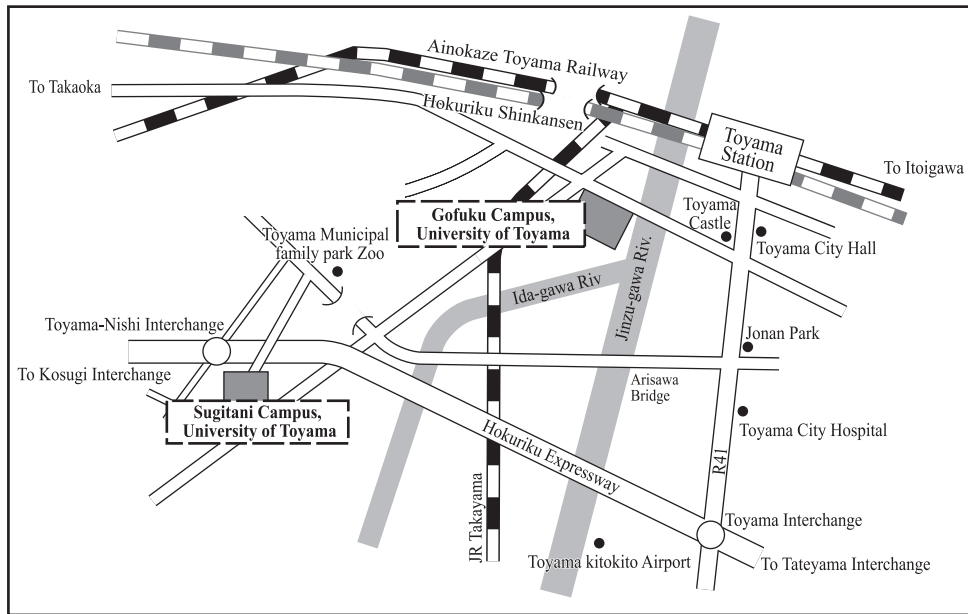
Educational Field	Academic Advisor	Research Themes
Gene Regulation	Associate Professor HIROSE Yutaka	<ul style="list-style-type: none"> • Study on the molecular mechanism of transcription initiation by RNA polymerase II • Study on the role of mammalian Mediator complex in controlling gene expression • Study on the regulatory mechanism of pre-mRNA processing coordinated with transcription • Study on the pathogenic mechanisms of human diseases caused by misregulation of gene expression program
Molecular Cell Biology	Professor SO Takanori	<ul style="list-style-type: none"> • Elucidation of novel pro-inflammatory cytokine signaling mechanisms regulated by TRAF family molecules • Elucidation of regulatory mechanisms of TNFR family molecules in CD4⁺ T cells • Elucidation of molecular pathology of X-linked adrenoleukodystrophy
Medicinal Bioresources	Associate Professor TAURA Futoshi	<ul style="list-style-type: none"> • Comprehensive elucidation of biosynthetic pathways producing secondary metabolites in medicinal plants • Relationship between structures and catalytic activities of biosynthetic enzymes of natural products • Application of biosynthetic genes for synthetic biology
Synthetic and Biomolecular Organic Chemistry	Professor YAKURA Takayuki	<ul style="list-style-type: none"> • Development of environmentally benign organic reactions • Synthesis of biologically active natural products • Pharmaceutical chemical research in bioactive substances
Biointerface Chemistry	Professor NAKANO Minoru	<ul style="list-style-type: none"> • Study of membrane lipid dynamics and elucidation of lipid transfer machinery • Elucidation of lipid flip-flop mechanisms • Biophysical research for interaction of amyloid beta with membranes • Structural and functional investigation and pharmaceutical application of lipid nanoparticles
Pharmaceutical Physiology	Professor SAKAI Hideki	<p>Physiological, biochemical and pharmacological studies on normal and cancer cells to clarify</p> <ol style="list-style-type: none"> 1) interactions between drugs and ion-transporting proteins 2) transportsome functions 3) functional relations among ion-transporting proteins
Pharmaceutical Technology	Professor ONUKEI Yoshinori	<ul style="list-style-type: none"> • Development of optimization techniques for designing pharmaceutical formulations and manufacturing processes • Studies on pharmaceutical characteristics using time domain NMR

Educational Field	Academic Advisor	Research Themes
Natural Products & Drug Discovery	Professor MORITA Hiroyuki	<ul style="list-style-type: none"> • Studies on biosynthesis of naturally occurring bioactive compounds • Structural basis for secondary metabolite enzymes • Enzyme engineering for novel drug development • Isolation of bioactive compounds from plants, microorganisms, and marine organisms • Investigation of Asia's natural resources not fully utilized • Discovery of natural anticancer agents from medicinal plant resources by employing a novel antiausterity screening strategy • Chemical investigation of medicinal plants and search for novel bioactive secondary metabolites • Investigation of the structure-activity relationship of the active natural compounds and their mechanism of action against cancer cell survival pathways • Discovery of metabolomic biomarkers associated with cancer cells by utilizing FT-NMR and MS strategy
Neuromedical Science	Professor TOHDA Chihiro	<ul style="list-style-type: none"> • Elucidation of the molecular mechanism of restoring the neuronal network for activation of neural function. • Traditional medicine research for developing fundamental therapeutic drugs for Alzheimer's disease, spinal cord injury, cervical spondylosis myelopathy, and sarcopenia. • Molecular basis of crosstalk between the central nervous system and peripheral organs, which controls neural function. • Clinical study aiming to develop new botanical drugs and new usage of Kampo formulas. • Clinical study to analyze factors affecting physical and mental health and to identify biomarkers of well-being.
Host Defences	Professor HAYAKAWA Yoshihiro	<ul style="list-style-type: none"> • Study of NK cell biology and its roles in immunity • Role of innate immune responses in cancer progression • Immunological study of inflammatory & allergic diseases • Modulation of immune responses and immunological diseases by Kampo medicines • Study to regulate cancer progression & metastasis • Elucidation of novel actions of kampo medicines and food factors on the basis of modulation of intraluminal bile acid metabolism in gastrointestinal tract
Complex Biosystem Research	Professor NAKAGAWA Yoshimi	<ul style="list-style-type: none"> • Functional analysis of transcription factors that regulate glucose / lipid metabolism • Study for nutrient metabolism regulation by cell-cell and tissue-tissue interaction • Evaluation of treatment of lifestyle-related diseases by Wakan-yaku • Study for the mechanism of lifestyle-related diseases caused by sleep disorders • Establishment of information science analysis using integrated omics analysis

Educational Field	Academic Advisor	Research Themes
Presymptomatic Disease	Professor KOIZUMI Keiichi	<ul style="list-style-type: none"> • Understanding of the fluctuation of biometric information and its medical applications. • Development of the glutaminase inhibitor and its medical applications. • Elucidation of the function of immunostimulatory nanoparticles and nucleotide degradant discovered by traditional Japanese medicine (Kampo formula) and their medical applications. • Elucidation of the pathological mechanism and the search for new seeds of medicine for medical applications in enteric immune diseases.

※ The Graduate School of Medicine and Pharmaceutical Sciences (Ph.D. Program in the Department of Pharmaceutical Sciences) has the laboratory specified below in addition to the laboratories listed above.
Pharmacognosy

University of Toyama Campus Locations



The site of examination Faculty of Medicine and Pharmaceutical Sciences, Sugitani Campus, University of Toyama **Transportation to the School of Medicine and Pharmaceutical Sciences, Sugitani Campus, University of Toyama**

◎By Bus

- About 30 -minute ride on Toyama Local Loop Bus “University Hospital of Toyama University” (bus stop No.3 departing in front of Toyama Station). Take off at “University Hospital of Toyama University”.

◎Others

- About 25 minutes by car from “Toyama kitokito Airport”
- About 5 minutes by car from “Toyama Nishi IC” on Hokuriku Expressway



Access to the School of Medicine
and Pharmaceutical Science,
Sugitani Campus. University of Toyama

Inquiries about the Guidelines for Recruitment of Students, admission exam,
and preliminary consultation for applicants with physical disabilities

* The applicant should make inquiries on his or her own unless absolutely necessary.

The Examination Section of the Admissions Office for Educational Affairs Division(Sugitani Campus),
University of Toyama

Address: 2630 Sugitani, Toyama City, Japan 930-0194
TEL: 076-434-7658