2026 Tokyo University of Science Application Guidebook Graduate School Doctoral Course [General Selection] (Excerpt)

O Where to Direct Inquiries (Application submission, mailing address)

Administration Section for Faculty of Science 1-3 Kagurazaka, Shinjuku-ku, Tokyo 162-8601						
Graduate School of Science	03-5228-8120					
Administration Section for Faculty of Management 1-11-2 Fujimi, Chiyoda-ku, Tokyo 102-0	0071					
Graduate School of Management	03-3556-2505					
Administration Section for Faculty of Science and Technology 2641 Yamazaki, Noda-shi, C	hiba-ken 278-8510					
Graduate School of Science and Technology	04-7122-9728					
Administration Office for Graduate School of Biological Science 2669 Yamazaki, Noda-shi,	Chiba-ken 278-0022					
Graduate School of Biological Sciences	04-7121-4033					
Administration Section for Faculty of Engineering 6-3-1 Niijuku, Katsushika-ku, Tokyo 125-8585						
Graduate School of Engineering	03-5876-1571					
Administration Section for Faculty of Advanced Engineering 6-3-1 Niijuku, Katsushika-ku,	, Tokyo 125-8585					
Graduate School of Advanced Engineering	03-5876-1586					

^{*}During the application period, inquiries and application documents are accepted during the hours below. Please note that these hours may differ from regular office hours.

8:30 AM to 5:00 PM (closed from 12:45 PM to 1:45 PM)

^{*}This is an excerpt from the application guidebook. Before applying, please contact the faculty member you wish to have research guidance, and prepare your application accordingly.

[General Selection]

1. Eligibility requirements for applying

The applicants must meet one of the five requirements below.

- (1) A person who possesses a master's degree or expects to obtain one in March 2026
- (2) A person who possesses a professional degree or expects to obtain one in March 2026
- (3) A person who has completed a curriculum recognized as being at least equivalent to a master's program at a graduate school in a foreign country, or who expects to do by the end of March 2026
- (4) A person designated by the Ministry of Education, Culture, Sports, Science and Technology
- (5) Persons whom the graduate schools of this university recognize to have academic abilities equal with or higher than those of persons who possess master's degrees and who will have reached the age of 24 by March 31, 2026
- © Applicants satisfying the above eligibility requirement (5) are required to undergo eligibility screening. Therefore, such applicants must be certain to contact the relevant Graduate School in advance, and to submit a "Personal History for Qualification of Entrance Examination" ("入学試験出願資格認定審查調書") (designated form), "List of Research Achievements" ("研究業績一覧") (designated form), "Outline of Research Achievements" ("研究業績概要") (designated form), "Graduation Certificate," and, if the applicant performed graduation research work, "Graduation Thesis (Copy) or Outline of Graduation Thesis," along with a stamped, self-addressed envelope (Nagagata size 3, with 410 yen worth of stamps) so that the materials arrive no later than Wednesday, January 7, 2026. <For inquiries and submission addresses, refer to the contact information list on P.1.> Applicants are notified of screening results immediately.

2. Number of Student Openings, Screening Schedule

Graduate School	Department	Number of student openings	Campus	Application period ※	Screening schedule	Announcement of successful applicants	Admission procedures period
Graduate School of Science	Department of Mathematics Department of Physics Department of Chemistry Department of Applied Mathematics Department of Mathematics and	3 students 5 students 4 students 3 students 3 students	Kagurazaka Kagurazaka	Tuesday, January 13to Friday, January 23, 2026 (postmark deadline)	February 19 at 1:00 PM From Sunday, February		
	Science Education Department of Architecture	3 students		Wednesday, January 7 to			
ool oo ng	Department of Industrial Chemistry	3 students	Katsushika	Wednesday, January 14, 2026 (postmark deadline)			
te Sch jineerii	Department of Electrical Engineering	3 students		deadine)	From Saturday, February 21 at 10:00		
Graduate School of Engineering	Department of Information and Computer Technology Department of Mechanical Engineering	3 students 5 students			AM		
	Department of Mathematics	3 students					
nology	Department of Physics and Astronomy	3 students		Wednesday, January 7 to Wednesday, January 14, 2026 (postmark			
d Tech	Department of Information Sciences Department of Applied Biological	4 students 4 students		deadline)			
Graduate School of Science and Technology (*1)	Science Department of Architecture Department of Pure and Applied	3 students 3 students	Noda				
ool of	Chemistry Department of Electrical	3 students				Monday, March 9 at	
ate Sch	Engineering Department of Industrial and Systems Engineering	3 students				10:00 AM	
Gradu	Department of Mechanical and Aerospace Engineering	3 students					Tuesday, March 10 t
	Department of Civil Engineering	3 students					Monday, March 16
Graduate School of Advanced Engineering	Department of Applied Electronics Department of Materials Science and Technology	6 students 6 students	Katsushika	Friday, January 9 to Tuesday, January 27, 2026 (postmark	From Wednesday, February 18 at 10:00 AM		
	Department of Biological Science and Technology	6 students		deadline)			
raduato Adv Engi	Department of Applied Physics	3 students					
Ü	Department of Medical and Robotic Engineering Design	3 students			***		
Graduate School of Management	Department of Management	Friday,		Wednesday, January 7 to Friday, January 16, 2026 (postmark deadline)			
Graduate School of Biological Sciences	Department of Biological Sciences	5 students	Noda	Friday, January 9 to Tuesday, January 27, 2026 (postmark deadline)	From Monday, February 16 at 10:00 AM		

*If applying from outside Japan, the application must arrive by the last day of the application period.

The Application Guidebook for the Graduate School of Pharmaceutical Sciences and the Department of Global Fire Science and Technology in the Graduate School of Science and Technology is available separately on the website of the university.

3. Screening Method

An oral examination will be conducted regarding your desired Department's specialized subject, foreign language and master's thesis. Where necessary, a written examination will also be conducted.

- © For the Department of Chemistry in the Graduate School of Science and the Department of Industrial Chemistry in the Graduate School of Engineering, a presentation about research to date and future research plans will be required, followed by a question-and-answer session. Please bring your own computer and any other requisite materials. The presentation time is 18 minutes for the Department of Chemistry in the Graduate School of Science and 15 minutes for the Department of Industrial Chemistry in the Graduate School of Engineering.
- ©For the Department of Electrical Engineering and the Department of Information and Computer Technology in the Graduate School of Engineering, an evaluation of English proficiency is made based on your TOEIC score in lieu of a written English examination.
- © For the Department of Pure and Applied Chemistry in the Graduate School of Science and Technology, an evaluation of English proficiency is made based on your TOEIC score.
- ©For the Department of Electrical Engineering in the Graduate School of Science and Technology, an evaluation of English proficiency is made based on your TOEIC or TOEFL score. However, if no documents proving the score are submitted, a written English examination will be required.
- ©For the Department of Management in the Graduate School of Management, only English is eligible as a foreign language. In addition, a presentation (15 minutes) for "contents of master's thesis" and "future research plan" is required along with a question-and-answer session (25 minutes). "Contents of master's thesis" can be substituted with the contents of a report other than a master's thesis, such as for those who completed an MBA program. Please bring a computer, etc. (with an HDMI or RGB cable connection available).

4. Application Documents

Please gather all of the application documents, etc. below, and either submit them directly or mail them (must be postmarked by the deadline) to the applicable office listed on P.1 within the application period.

If these certificates are written in a language other than Japanese or English, they must be accompanied by a certified Japanese or English translation from a public institution, Japanese language school or translation company.

Also, if the name on the certificates submitted for application documents 2 or 3 is different to the name on other application documents, due to a change of surname or other such reason, the application documents should be accompanied by public documentation (either the original or a copy) attesting to the fact that the applicant is the person named on the application documents.

The various forms designated by the university can be downloaded from the website of the university. Print out the forms designated by the university on A4 size paper, single-sided, and submit them.

	Application Document	Remarks
1	Application for Admission ("入学願書")	Must be filled out by the applicant on the form designated by the university. Please use a color photograph taken within 3 months. *The photo on the Application for Admission will be used for the "Student ID" photo at the time of admission.
2	Academic transcript	(undergraduate, master's course)
3	Graduation certificate or prospective graduation certificate of completion of master's program	Persons expecting to complete a master's program at Tokyo University of Science in March 2026 are not required to submit these documents.
5	Resume ("履歴書") (form designated by university) Master's thesis or a copy of master's thesis	
3	**	
6	Research plan/ performance report ("研究計画•業績書") *Applicants for the Department of Mathematics and Science Education in the Graduate School of Science must follow the explanatory note below.	Use the form designated by the university.
7	Others	For the Department of Electrical Engineering and Department of Information and Computer Technology in the Graduate School of Engineering, you must submit a printout of your TOEIC score sheet (TOEIC IP is also acceptable) or digital official certificate (must have been taken within the past two years prior to application). However, for the TOEIC public test, only a printout of the official digital certificate will be accepted. Submitted score sheets will not be returned. For the Department of Pure and Applied Chemistry in the Graduate School of Science and Technology, you must submit a printout of your TOEIC score sheet (TOEIC IP is also acceptable) or digital official certificate (must have been taken within the past two years prior to application). However, for the TOEIC public test, only a printout of the official digital certificate will be accepted. Submitted score sheets will not be returned. For the Department of Electrical Engineering in the Graduate School of Science and Technology, you must submit the original score sheet of either TOEIC (TOEIC IP is acceptable) or TOEFL (either TOEFL iBT (Home Edition) or TOEFL ITP is acceptable). However, for the TOEIC public test, only a printout of the official digital certificate will be accepted. For TOEFL iBT (Home Edition is acceptable), you may also submit a Test Taker Score Report (a PDF downloaded from the test taker's account). Please submit score sheets from exams taken within the past two years prior to application. Submitted score sheets will not be returned. If no score sheet is submitted, a written English test will be required. For the Department of Management in the Graduate School of Management, you must submit a copy of your master's thesis or an alternative paper/report.
8	1 postcard (for exam admission ticket)	Write down the name and address to where you want the exam admission ticket to be sent on the front of the postcard and affix 323 yen worth of stamps (85 yen for regular postcard + 300 yen for express mail). Do not write anything on the reverse side.

	2 Letter Pack Light (Graduate School of Engineering only)	Fold the envelope (for sending the exam admission ticket and screening results) in half and write the address to which the exam admission ticket and screening results will be sent in the address box on the front, and "Documents" in the item name field.
--	---	--

(Explanatory note)

For persons applying to the Department of Mathematics and Science Education in the Graduate School of Science, fill out the "Research plan/performance report" form designated by the university by compartmentalizing into "Research objective," "Academic background behind research," "Originality of research," "Details of research plan/method," and "Status of preparations."

5. Screening Locations

Graduate School	Screening Location	Location where Details are Posted
Graduate School of Science	Kagurazaka Campus	In front of Building No. 1 on Kagurazaka
•Department of Mathematics		Campus
• Department of Physics		
• Department of Applied Mathematics		
• Department of Mathematics and Science		
Education		
Graduate School of Science Department of Chemistry	Kagurazaka Campus	In front of Building No. 5 on Kagurazaka Campus
Graduate School of Engineering	Katsushika Campus	In front of Lecture Hall Building on Katsushika Campus
Graduate School of Science and Technology	Noda Campus	In front of the main gate on Noda Campus
Graduate School of Advanced	Katsushika Campus	In front of Lecture Hall Building on
Engineering		Katsushika Campus
Graduate School of Management		Main Entrance of Kagurazaka Campus
	Fujimi Building	Fujimi Building
Graduate School of Biological	Noda Campus, Research	Noda Campus
Sciences	Institute of Biomedical	
	Sciences	

^{*}Details regarding screening locations will be posted at each campus and Graduate School on the screening date.

[Application Method]

[Precaution for applying]

Before the application make sure to contact the instructor you wish to be guided or, if your instructor has not been determined, contact the manager or secretary of your desired department and receive instructions. Inquire with the applicable office listed on P.1 regarding contact methods, etc.

The entrance examination fee is 35,000 yen.

- (1) The following two payment methods are available for entrance examination fee. Please note that payment through ATMs or online banking will not be accepted at all.
 - 1) At the bank counter
 - •You can make a payment from any bank in Japan (payments from ATMs and online banks are not accepted).
 - A handling charge will not apply only if you make a payment from MUFG Bank Headquarters or branches.
 - Please fill out required information on Application for Admission (A), Receipt of Entrance Examination Fee (B), and Request Form for Bank Transfer of the Entrance Examination Fee (C), then, please make a payment through a wire transfer at the bank counter.
 - After paying the entrance examination fee, please ensure that the bank's receipt stamp is sealed on (A)and (B)before leaving the bank.

- *If the bank's receipt stamp is not sealed, it will be considered that your payment for the entrance examination fee has not been made.
- Receipt of Entrance Examination Fee (B) is your copy. Please detach it and keep it safe.
- The bank will detach and keep Request Form for Bank Transfer of the Entrance Examination Fee (C) after the payment is made.
- (2) At a convenience store
- After making a prior application from a computer, smartphone, etc., you can make a payment at the register of a convenience store.
- You can pay at Seven Eleven, Lawson, Family Mart, or Mini Stop.
- •Please cut out "certificate of payment (on which the applicant's name and paid amount has been printed)" of "Statement of handling entrance examination fees and screening fees," which will be issued after you pay the entrance examination fee at the convenience store. Then, please attach the certificate of payment to Application for Admission (A) and send it to the university. If you make the payment by this method, Receipt of Entrance Examination Fee (B) and Request Form for Bank Transfer of the Entrance Examination Fee (C) are not necessary, so please detach and discard them.
- * If the certificate of payment is not attached to Application for Admission (A) or a copy of the certificate of payment is attached, it will be considered that your payment for the entrance examination fee has not been made.
- •Refer to the next page for information regarding payment methods.
- (2) Within the application period, enclose application documents in a commercially-available *Kakugata* size 2 envelope, affix the envelope label for application documents, and mail your documents to the applicable address listed on P.1 using registered express mail (postmark is valid), or bring it directly to the applicable office.

[Handling of personal information]

Handling of personal information listed on the Application for Admission is as follows.

- (a) Personal information may be used for the purposes of 1) entrance exam operation (application processing and exam operation), 2) announcement of results, 3) admission procedures, 4) emergency contact with enrollees, and other associated matters.
- (b) Personal information may be used for public relations activities (sending of application guidelines, pamphlets, etc. and distribution of entrance examination information) for graduate schools established by the educational corporation Tokyo University of Science.
- (c) Personal information that has been statistically processed so that individuals cannot be identified may be used as material for surveys and research for the selection of students for admission to the university.

Personal information will not be used for any purposes than those listed above.

For Applicants in Japan

Payment of Entrance Examination Fee at a Convenience Store

Entrance examination fees can be paid 24 hours/day at Seven Eleven, Lawson, Mini Stop or Family Mart.

cancelled.

Apply beforehand on the Web



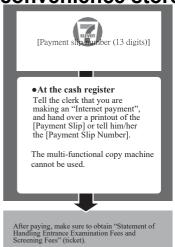
Follow the instructions on the screen, and obtain the number required for payment.

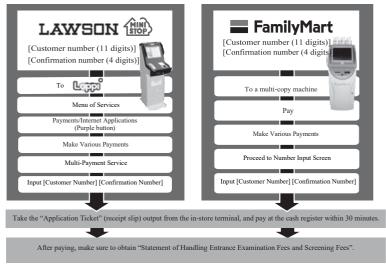
https://e-shiharai.net/

number. Instead, input your information again and obtain a new number. Input information for which payment could not be made within the payment deadline will be automatically

Pay at a convenience store

- •If you are a foreign student, input your name in katakana.
- •The entrance examination fee cannot be paid through a transfer using an ATM. Make sure to pay at the cash register.
- The university is unable to respond to inquiries regarding operation of the terminals at convenience stores.
 The screen design, etc. of the in-store terminal may change without notice.





Application



■Notes to Remember

- Check the application period in the Application Guidebook, and make payments in advance with sufficient time before the deadline.
- On the final payment deadline date, the cutoff for "Applying on Web Site" is 11:00 PM, and the cutoff for using a payment terminal at a convenience store is 11:30 PM.
- Entrance examination fees that have been paid will not be refunded.
- The eligible convenience stores/payment methods are subject to change. Changes will be announced on the Web site.
- In addition the entrance examination fee, a separate processing fee will also apply. For details, check the Web site.

Inquiries regarding "Payment of Entrance Examination Fees" cannot be answered at a convenience store. For details, check the Web site.

https://e-shiharai.net/

[Filling out the Application for Admission]

- (1) Changes of your desired Graduate School/Department will not be acknowledged once you have submitted your application.
- (2) Fill out the Application for Admission (1) accurately, and mark the necessary items with a circle (0).
- (3) General precautions
 - ① For the code of your desired Graduate School/Department, refer to the code chart and write down the code accurately.
 - ② In the Student ID Number field, write down your most recent Student ID Number only if you are a graduate of the university.
 - In the Name field, separate your last name and first name.
 *Applicants who are not Japanese citizens should write their name in the name column as it appears in English in their passport.
 - ④ Take special care to distinguish between "ソ", "リ", and "ン", "シ" and "ソ", "¬" and "¬" and "¬" and "¬".
 - ⑤ If the month or date of your birthdate is a single digit, add a "0" to the left of the digit.
 - ⑥ Do not use () when filling out your phone number. Use "-" (hyphen) instead.
 - The address/contact information refers to the location where the university will mail your acceptance letter, etc. Write down an address where you can definitely be contacted. If you change your contact details after submitting your application, please contact the Coordinator as soon as possible to update your details.
 - (8) If you live in an apartment, dormitory, boarding house, etc., make sure to remember to write down your apartment number, building number, room number, C/O, etc.
 - For faculty names and research field codes, in your field of choice, refer to "List of Faculty Offering Research Guidance and Research Fields" starting on P. 18 of the Japanese version of the Application Guidebook, and write down the code.

 If you particularly prefer a research field overseen by a faculty member without a code, inquire with the
- applicable office listed on P.1.(4) Precautions for attaching your photograph
 - 1) Please paste a color photograph of the designated size (H 4 cm x W 3 cm).
 - (2) This photo will be used for your Student ID.
 - (3) Please use a photograph that meets the following requirements:
 a. In color b. No frame c. Frontal shot of upper body, without a hat. Students who usually wear glasses should be wearing glasses. d. Photograph must be taken within the last three months e. Snapshots (informal photographs) are not acceptable. f. A photograph with hair covering the eyes, closed eyes, or with the face not falling within the frame is not acceptable.
 - 4 Please write your desired department code and your name on the reverse side of the photograph using an oil-based marker, and paste the photo securely onto the photo section.

[Graduate School/Department Codes]

When filling out the application form, make sure to double-check the code when transcribing it onto the form.

Graduate School	Department	Code			
Graduate School of	Mathematics	11			
Science	Physics	12			
	Chemistry	13			
	Applied Mathematics				
	Mathematics and Science Education	17			
Graduate School of Engineering	Architecture	41			
	Industrial Chemistry	42			
	Electrical Engineering	43			
	Information and Computer				
	Technology				
	Mechanical Engineering	45			

Graduate School	Department	Code
	Mathematics	61
	Physics and Astronomy	62
Graduate School of Science and	Information Sciences	63
Technology	Applied Biological Science	64
	Architecture	71
	Pure and Applied Chemistry	72
	Electrical Engineering	73
	Industrial and Systems Engineering	74
	Mechanical and Aerospace	75
	Engineering	
	Civil Engineering	76
Graduate School of	Applied Electronics	81
Advanced Engineering	Materials Science and Technology	82
	Biological Science and Technology	83
	Applied Physics	84
	Medical and Robotic Engineering	85
	Design	
Graduate School of	Management	86
Management		
Graduate School	Biological Sciences	03
of Biological		
Sciences		

[Precautions Regarding Implementation of Screening]

(1) Precautions related to infection for which suspension of attendance is specified in the School Health and Safety Act On the day of the entrance examination, if you suspect you have an infection (COVID-19, influenza, measles, chickenpox, rubella, etc.) for which suspension of attendance is specified in the School Health and Safety Act, and are not fully recovered, in principle, please refrain from taking the examination as there is the risk of spreading an infection to other examinees, proctors, etc. However, this is not limited to cases where a school physician or other physician has deemed that there is no risk of infection based on your condition.

In cases where you refrain from taking the examination based on the above, you will not be refunded the entrance examination fee. Please take sufficient care in managing your health on the day of the examination.

(2) In the event that the university deems that it is difficult to implement an entrance examination as scheduled due to unforeseen circumstances, such as a natural disaster, fire, power outage, widespread delays in public transport, etc., measures may be taken such as to delay the start time of the examination, postpone the examination, change the examination venue, etc. Information by the university related to implementation of the entrance examination will be provided on the TUS website (https://www.tus.ac.jp/).

The university will not bear any responsibility for disadvantages to examinees associated with the above.

[Announcement of Acceptance]

Monday, March 9, 2026 at 10:00 AM

OIn addition to posting admission results at relevant buildings and Research Institutes, acceptance letters will be mailed by express mail. Please allow 1 to 2 days for the letters to arrive. An announcement will not be made on the website of the university.

Delivery of letters may be slightly delayed depending on postal circumstances. Responses will not be provided to inquiries regarding screening results at all, whether over the phone or in person. If you change your address after announcement of acceptance, please notify the appropriate office listed on P.1.

Graduate School of Science	Kagurazaka Campus: Bulletin board on 1 st floor of Building No. 3 Kagurazaka Campus: Bulletin board on 1 st floor of Building No. 5
Graduate School of Engineering	Katsushika Campus: Bulletin board on 1st floor of Lecture Hall Building
Graduate School of Science and Technology	Noda Campus: Bulletin board at Faculty of Science and Technology Office on 2 nd floor of Building No. 1
Graduate School of Advanced Engineering	Katsushika Campus: Bulletin board on 1st floor of Lecture Hall Building
Graduate School of Management	Kagurazaka Campus: Bulletin board on 2 nd floor of Fujimi Building
Graduate School of Biological Sciences	Noda Campus: Research Institute for Biomedical Sciences

[Admission Procedure]

Please pay the enrollment procedure fee (including tuition and facilities fees for first semester) by bank transfer between Monday, March 10 and Friday, March 14, 2025. Payment through ATMs or online banking will not be

- (1) Admission procedures will not be acknowledged, under any circumstances, after the admission procedures deadline has passed.
- (2) An "Admissions approval form" will be sent to persons undergoing admission procedures. It will take approximately 1 week for documents to arrive after payment.

(Unit: yen)

		Enrollment			0.1 6	Second	Academic fee		Total fees for						
Graduate School	Department	procedure fee (A)	Enrollment fee	Tuition fee	Educational enrichment fee	Other fees	semester fee (B)	Tuition fee	Educational enrichment fee	first year (A+B)					
Science	Mathematics Physics Chemistry Applied Mathematics Mathematics and Science Education														
Engineering	Architecture Industrial Chemistry Electrical Engineering Information and Computer Technology Mechanical Engineering	602,740	602,740	602,740	602,740	602,740 200									
Science and Technology	Mathematics Physics and Astronomy Information Sciences Applied Biological Science Architecture Pure and Applied Chemistry Electrical Engineering Industrial and Systems Engineering Mechanical and Aerospace Engineering Civil Engineering						602,740	602,740	602,740	602,740	602,740	602,740 200,000 300,0	300,000	100,000	<student Health Mutual Aid> 2,740</student
Advanced Engineering	Applied Electronics Materials Science and Technology Biological Science and Technology Applied Physics Medical and Robotic Engineering Design														
Management Biological Sciences	Management Biological Sciences														
biological Sciences	biological Sciences														

 $[\]ensuremath{\mathfrak{O}}$ The amount listed for the Student Health Mutual Aid is the planned amount.

[Precautions]

- (1) Changes of your Graduate School/Department will not be acknowledged once you have submitted your application.
- (2) Once received, application documents and entrance examination fees will not be returned.
- (3) Enrollment will be cancelled in cases of misconduct during entrance examinations or provision of falsified or fraudulent information on application documents, etc.
- (4) Refund of enrollment procedure fee
 - 1) Once paid, the enrollment fee, tuition fee, etc. will not be refunded, regardless of the reason.
 - 2) Regardless of the stipulation of 1) above, the paid tuition fees, etc. (tuition fee, facilities fee, and student health mutual aid fee) excluding enrollment fee, will be refunded if a refusal of enrollment is submitted using the designated Web form by 9 a.m. in JST on Tuesday, March 31, 2026. (For details, please see "Admissions Documents". Instructions on how to download "Admissions Documents" will be provided when the admissions approval form is sent.)

[©] The tuition and educational enrichment fee for the second year and onwards is the same amount as for the first year.

[©] At universities established by the educational corporation of Tokyo University of Science, those who graduated or completed from their undergraduate school, master's course, or professional degree program and advance to their doctoral course are exempt from enrollment and educational enrichment fee. The graduates of the Tokyo University of Science, Yamaguchi (excluding those who enrolled after the university became a public university in 2016); Science University of Tokyo, Yamaguchi College; Tokyo University of Science, Suwa (excluding those who enrolled after the university became a public university in 2018); and Science University of Tokyo, Suwa College are exempt from enrollment and educational enrichment fee based on application by the graduate themselves. For application methods, etc., contact the Admissions Section (https://faq.admissions.tus.ac.jp/hc/ja/requests/new).