Doctoral Program

# Tokyo Metropolitan University

# Graduate School of Science

# Application Guidelines for 2025 Doctoral Program

# <October Enrollment>

Examination: **August 25 (Mon), 2025**


Administrative affairs concerning entrance examinations of the Graduate School of Science
are handled by the following office:

**Academic Affairs Section of Science, Academic and Student Affairs Division of Sciences,**
**Administrative Affairs Department of Tokyo Metropolitan University**

1-1 Minami-Osawa, Hachioji-shi, Tokyo 192-0397

Tel: 042-677-1111 (representative) ext. 3021

https://www.se.tmu.ac.jp/

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# Admissions Policies of the Graduate School of Science, Tokyo Metropolitan University

Graduate School of Science seeks individuals who acquire basic knowledge of and attitudes towards natural science and enthusiastically aim to become researchers/educators/engineers with creativity and applied skills. Such individuals who have the ability and motivation to deliver their research outcomes to the world are highly welcomed, especially in the Doctoral program.

## Department of Mathematical Sciences

**[Master's program]**

1. Policy

   Mathematics have been provided the basis of natural science and played a fundamental role in its development, whose significance is more widely recognized in the present day. The department intends to undertake education and research in the 4 areas of mathematical sciences, including algebra, geometry, analysis (main fields of mathematics) plus applied mathematics, from an extended position not bound by the field framework.

2. Ideal students

   (1) Individuals with a basic understanding and awareness of various issues in mathematical sciences

   (2) Individuals capable of acquiring knowledge from a global perspective and willingly taking on challenges in research tasks

   (3) Individuals who are motivated to attain various abilities to solve problems

3. Ability required for students

   (1) Fundamental academic ability of mathematical sciences and spirit of inquiry for the desired field

   (2) Fundamental ability to discover and solve problems on their initiative in the field of their choice

**[Doctoral program]**

1. Policy

   Mathematics have been provided the basis of natural science and played a fundamental role in its development, whose significance is more widely recognized in the present day. The department intends to undertake education and research in the 4 areas of mathematical sciences, including algebra, geometry, and analysis (main fields of mathematics) plus applied mathematics, from an extended position not bound by the field framework.

2. Ideal students

   (1) Individuals having deep and extensive specialized knowledge for their research in mathematical sciences

   (2) Individuals capable of carrying out ingenious and international research activities as an independent

researcher

(3) Individuals having the ability to evaluate the significance of their research and their positioning in society objectively

3. Ability required for students

(1) Specialized knowledge in the field of their choice and academic ability to carry out their research

(2) Ability to discover and solve problems on their initiative in the field of their choice

## Department of Physics

**[Master's program]**

1. Policy

The Department aims to develop persons with basic knowledge and research skills in physics, which covers a wide range of phenomena in the natural world from elementary particles/nuclei and atomic molecules, substances with diverse structures, and the universe. It also aims to develop those who can drive leading-edge scientific research in the next generation with a keen awareness of the social responsibilities involved in their research and those who can solve various social and environmental problems based on science fundamentals.

2. Ideal students

(1) Individuals who are curious about acquiring basic knowledge in the expertise field, logical thinking skills, and practical research approaches

(2) Individuals who are eager to acquire the necessary abilities to solve problems, conduct research, hold discussions, present research results, etc.

(2) Individuals aiming to become researchers, professional engineers, or educators in physics

3. Ability required for students

(1) Specialized knowledge in the field of their choice and extensive knowledge of physics

(2) Ability to discover and solve problems on their initiative in the field of their choice

**[Doctoral program]**

1. Policy

The Department aims to develop persons with deep specialized knowledge and excellent research skills in physics, which covers a wide range of phenomena in the natural world from elementary particles/nuclei and atomic molecules, substances with diverse structures, and the universe. It also aims to develop those who can drive leading-edge scientific research in the next generation with a keen awareness of the social responsibilities involved in their research and those who can solve various social and environmental problems based on science fundamentals.

2. Ideal students
   (1) Individuals who are curious about acquiring deep and extensive knowledge of basic and advanced physics
   (2) Individuals aiming to become independent researchers or educators capable of carrying out international and distinguished research activities, with a keen awareness of the social responsibilities involved in their research
   (3) Individuals who are eager to attain abilities to conduct research by formulating ingenious research plans, presenting the original treatises in international academic journals, participating in international research discussions, and reporting research results and their significances

3. Ability required for students
   (1) Deep specialized knowledge in the field of their choice
   (2) Ability to contribute to academic development through the studies of physics
   (3) Excellent research skills capable of setting pioneering research tasks on their own and solving them in the field of their choice

## Department of Chemistry

**[Master's program]**

1. Policy

   The Department aims to develop persons who understand the structure, nature, and the reaction of substances at the atomic and molecular levels, and acquire the basic knowledge of as well as fundamental research skills of chemistry, which pursues to create a new substance by carrying out the structural conversion of the molecule. It also aims to develop those who can drive leading-edge scientific research in the next generation with a keen awareness of the social responsibilities involved in their research and those who can solve various social and environmental problems based on science fundamentals.

2. Ideal students
   (1) Individuals who are keen to work on research towards the elucidation of the structures, reactions, functions, and circulations of atom/molecule and its compound/assembly as well as the synthesis of a new substance
   (2) Individuals who wish to deepen their understanding of chemistry
   (3) Individuals who have a desire to improve research skills
   (4) Individuals who wish to develop global awareness through research to be able to perform internationally
   (5) Individuals who have a passion for working as a chemistry expert in the future

3. Ability required for students
   (1) Broad range of knowledge of chemistry
   (2) Motivation for research towards the elucidation of the structures, reactions, functions, and circulations

of atom/molecule and its compound/assembly as well as the synthesis of a new substance, and the ability to pursue it

(3) Ability to discover and solve problems on their initiative in the field of their choice

(4) Ability of foreign language required to promote their research

**[Doctoral program]**

1. Policy

The Department aims to develop persons who understand the structure, nature, and the reaction of substances at the atomic and molecular levels, and acquire the deep knowledge of as well as excellent research skills of chemistry, which pursues to create a new substance by carrying out the structural conversion of the molecule. It also aims to develop those who can drive leading-edge scientific research in the next generation with a keen awareness of the social responsibilities involved in their research and those who can solve various social and environmental problems based on science fundamentals.

2. Ideal students

(1) Individuals who show enthusiasm in contributing to deepening the human knowledge of chemistry

(2) Individuals who are curious about acquiring deep and extensive knowledge of basic and advanced chemistry

(3) Individuals aiming to become independent researchers or educators capable of carrying out international and distinguished research activities, with a keen awareness of the social responsibilities involved in their research

(4) Individuals who are eager to attain abilities to conduct research by formulating ingenious research plans, presenting the original treatises in international academic journals, participating in international research discussions, and reporting research results and their significances

(5) Individuals who wish to develop global awareness through research to be able to perform internationally

(6) Individuals who have a passion for working as a highly specialized chemical expert in the future

3. Ability required for students

(1) Deep specialized knowledge in the field of their choice

(2) Motivation for research towards the elucidation of the structures, reactions, functions, and circulations of atom/molecule and its compound/assembly as well as the synthesis of a new substance, and the ability to advance it

(3) Ability of foreign language required to promote their research

## Department of Biological Sciences

**[Master's program]**

1. Policy

Department aims to develop students who attain basic skills to independently set and execute objectives,

methods, and problems towards the elucidation of fundamental mechanisms of biological growth and its higher-order structure, behavior, and ecology. It also aims to develop an integrated view of international perspective and communication skills to become researchers, educators, and developers capable of playing an active role domestically and internationally.

2. Ideal students
   (1) Individuals who show a keen interest in biology and biological sciences and are eager to take the initiative in research and acquisition of specialized knowledge
   (2) Individuals who have a desire to attain research skills, planning ability, and performance capability through the study of biological science
   (3) Individuals who have a passion for contributing to society as researchers, educators, and developers equipped with international perspective and communication ability

3. Ability required for students
   (1) Broad range of interests in biology and biological sciences, regardless of the university, faculty, or department they are from
   (2) Potential capacity to take the initiative in discovering and solving problems in biology, biological sciences, or another field

**[Doctoral program]**

1. Policy

   Department aims to develop students who attain basic and advanced skills to independently set and execute objectives, methods, and problems towards the elucidation of fundamental mechanisms of biological growth and its higher-order structure, behavior, and ecology. It also aims to develop an integrated view of both high international perspective and communication skills to become researchers, educators, and developers capable of playing an active and leading role domestically and internationally.

2. Ideal students
   (1) Individuals who pursue ingenious and leading-edge research in the fields of biological sciences
   (2) Individuals who are curious about acquiring specialized knowledge of biological sciences and attain research skills, planning ability, and performance capability to be able to be active in the front lines
   (3) Individuals who have a passion for contributing to society as researchers, educators, and developers who can play an active and leading role in the expertise field internationally

3. Ability required for students
   (1) A specialized knowledge in the field of their choice and a broad range of interests in biology and biological sciences, regardless of the university, faculty, or department they are from
   (2) Ability to take the initiative in discovering and solving problems in biology, biological sciences, or another field

## 1. Number of Students to be Accepted

| Name of department | Number of students to be accepted |
|---|---|
| Mathematical Sciences | A few |
| Physics | A few |
| Chemistry | A few |
| Biological Sciences | A few |

## 2. Qualification *

(1) Individuals who possess a master's degree or are expected to receive one by September 30, 2025

(2) Individuals who possess a Professional degree or who are expected to receive one by September 30, 2025

(3) Individuals who have been conferred a master's degree or any other degree equivalent to a Professional degree or are expected to receive one by September 30, 2025 in a foreign country

(4) Individuals who have been conferred a master's degree or any other degree equivalent to a Professional degree by completing a prescribed course of a foreign school via distant learning in Japan

(5) Individuals who have been conferred a master's degree or any other degree equivalent to a Professional degree by completing a prescribed course of a study at an educational institution located in Japan that is positioned as the one offering foreign graduate courses under the educational system of the said country and separately designated by the Japanese Minister of Education, Culture, Sports, Science, and Technology

(6) Individuals who are appointed by the Minister of Education, Culture, Sports, Science, and Technology (1989 Ministry of Education Notification No. 118) **(Note)**

(7) Individuals who do not fall under any of (1) to (6) above, but are recognized based on the individual qualification screening as having an academic ability equal to or superior to those with a master's or a Professional degree

* Those who are applying under the above (7) must undergo the application qualification screening. Please send an application following the rules stated on page 7 of these Guidelines.

**(Note)** The above qualification (6) refers to those who satisfy one of the following requirements.

(1) Individuals who have engaged in research activities for two years or more at a university, research institute, etc. after graduating from a university and are recognized by the Graduate School, based on the research outcomes, as having an academic ability equal to or superior to those with a master's degree

(2) Individuals who have engaged in research activities for two years or more at a university or research institute, etc., after completing 16 years of school education in a foreign country or 16 years of school education offered by a foreign school via distant learning in Japan, and are recognized by the Graduate School, based on the research outcomes, as having an academic ability equal to or superior to those with a master's degree

## 3. Application Qualification Screening

Applicants who fall under the following must undergo the application qualification screening.

- Those who apply under the qualification (7)

**<Application period>**

**June 19 (Thu) to 26 (Thu), 2025**

The reception of the Academic Affairs Section of Science is available to receive the application documents on weekdays from 10:00 am - 12:00 pm and 2:00 pm - 4:00 pm only (excluding national holidays).

If you send the documents by post, they must be postmarked on or before the last day of the deadline.

**<Documents to be submitted>**

- Confirmation of qualification (Designated form by the Graduate School)
- Certificate of (expected) completion of the last educational institution
- Academic transcript of the last educational institution
- Curriculum vitae (Designated form by the Graduate School)
- Statement of purpose (A4, 1 page)
- Confirmation of educational background

  Please write down your career and research experiences after the last educational institution attended. If there are any documents proving your engagement in research activities, etc. (for example, a paper, a summary of a presentation at an academic meeting, a certificate of research participation issued by a research institute, a certificate issued by a thesis adviser, etc.), attach them as well.
- A self-addressed stamped envelope (standard-size, with 410-yen postage stamps affixed <express delivery fee included>) (For notification of application approval/rejection purpose)

Note: Resubmission of both “certificate of (expected) graduation” and “academic transcript” from the last educational institution will not be required at the time of formal application.

**<Designated form>**

Please download the designated forms from the website of the Graduate School of Science (https://www.se.tmu.ac.jp/en/entrance_exam.html).

**<Place for submission>**

Academic Affairs Section of Science, Academic and Student Affairs Division of Sciences, Administrative Affairs Department of Tokyo Metropolitan University

(Please send **by registered express mail** and write down **in red “Qualification screening documents to the Doctoral program [October enrollment] enclosed”** on the front left side of the envelope. )

**<Notice of results>**

Notification will be sent out on **July 10 (Thu), 2025**.

**<Application procedure>**

Individuals who are admitted to undergoing application may proceed with the application procedures following these Guidelines.

## 4. Request for Special Consideration or Arrangement Related to Physical Disability

If you would like to request special consideration or arrangement related to physical disability at the time of examination or during school attendance, please notify us in advance. Please download the designated request form from the website of the Graduate School of Science (https://www.se.tmu.ac.jp/en/entrance_exam.html) .

**<Request acceptance period>**

**June 19 (Thu) to 26 (Thu), 2025**

The reception of the Academic Affairs Section of Science is available to receive the form on weekdays from 10:00 am - 12:00 pm and 2:00 pm - 4:00 pm only (excluding national holidays).

If you send the form by post, it must be postmarked on or before the last day of the deadline.

**<Documents to be submitted>**

Request for consultation regarding entrance examination to the Doctoral program (October enrollment) at the Graduate School of Science (Designated form by the Graduate School)

- A self-addressed return envelope (standard-size, with 410-yen postage stamps affixed <express delivery fee included>) (For notification of application approval/rejection purpose)

**<Place for submission>**

Academic Affairs Section of Science, Academic and Student Affairs Division of Sciences, Administrative Affairs Department of Tokyo Metropolitan University

(Please send by **registered express mail** and write down **in red "Request for consultation regarding entrance examination to the Doctoral program [October enrollment] enclosed"** on the front left side of the envelope.)

## 5. Request for Adult Working Student Enrollment

Programs suitable for adult working students are available to individuals who fall under any of the items listed in "2 Qualification" on pages 6 - 7 of these Guidelines and ever worked at the same company or research/ educational institution for more than one year by the time of enrollment. The applicant must continue working for their current employer with being approved by their immediate manager after the enrollment in the Doctoral program. If you wish to enroll as an adult working student, notify us in advance in the way explained below. It is still possible to apply for the Doctoral program as a general student without using this system.

**<Request acceptance period>**

**June 19 (Thu) to 26 (Thu), 2025**

The reception of the Science Office is available to receive the request on weekdays from 10:00 am - 12:00 pm and 2:00 pm - 4:00 pm only (excluding national holidays).

If you send the documents by post, they must be postmarked on or before the last day of the deadline.

**<Documents to be submitted>**

- Curriculum vitae (Designated form by the Graduate School)
- Certificate of approval for application (signed by applicant's immediate manager) (Designated form by the Graduate School)
- Research interest information sheet (Designated form by the Graduate School or a form created in accordance with it)
- Certificate of completion of the last educational institution or certificate of expected completion of the Master's program
- A self-addressed return envelope (standard-size, with 410-yen postage stamps affixed <express delivery fee included>) (For notification of application approval/rejection purpose)

Note: Resubmission of "certificate of (expected) completion from the last educational institution" will not be required at the time of formal application.

**<Designated form>**

Please download the designated form from the website of the Graduate School of Science (https://www.se.tmu.ac.jp/en/entrance_exam.html).

**<Place for submission>**

Academic Affairs Section of Science, Academic and Student Affairs Division of Sciences, Administrative Affairs Department of Tokyo Metropolitan University

**<Notice of results>**

Notification will be sent out on **July 10 (Thu), 2025**.

**Note: Applicants who are deemed to require an interview will be notified separately.**

**<Application procedure>**

Individuals who are admitted to undergoing application may proceed with the application procedures following these Guidelines. (In this regard, this Graduate School will adopt the Special Provision on Educational Method stipulated in Article 14 of the Standards for Establishment of Graduate Schools.)

## 6. Long-term Study System

Graduate School of Science has a system in which students may complete the program on a pre-planned basis during a fixed period exceeding the standard study duration (three years for the Doctoral program) under such circumstances of occupation, childbirth, childcare, nursing needs, etc. The students should pay the same amount

of tuition fees as regular students in installments over the period permitted for their long-term study.

**<Qualification criteria>**

Students who have difficulty completing their course within the standard study duration due to any of the following reasons:

(1) Occupation as a full-time employee

(2) Childbirth, childcare, or nursing needs

(3) Other reasons approved as exceptional circumstances

**<Application procedure>**

Application Information and forms are available to download from the website of the Graduate School of Science (https://www.se.tmu.ac.jp/en/entrance_exam.html). Send the application forms together with other required application documents. For the details of this program, please confirm with the Application Information.

Notification of approval/rejection for the Long-term study system is scheduled to be sent out on **September 8 (Mon), 2025**.

## 7. Application Procedure

**Before making an application, make sure to obtain approval from your prospective thesis advisor.**

(1) **Application period**

Sending by post: **July 25 (Fri) to August 1 (Fri), 2025**

(Application must be postmarked on or before the last day of the deadline.)

Place for submission: Academic Affairs Section of Science, Academic and Student Affairs Division of Sciences, Administrative Affairs Department of Tokyo Metropolitan University

Note:

- Write down **in red** "**Application form to the Doctoral program (October enrollment) enclosed**" on the front side of the envelope and send it **by registered express mail**.
- Send the application well in advance, considering the days to be delivered.
- Be sure to contact the Academic Affairs Section of Science if you do not receive the Exam admission card by **August 15 (Fri), 2025**.

(2) **Documents to be submitted**

| Application documentation | Remarks |
|---|---|
| (1)<br>Application form<br>Exam admission card | Use the designated form by the Graduate School. Affix your photo (4 cm in height x 3 cm in width, upper-body, frontal and bare head, taken within the last three months of application) in the specified space. |

| | |
|---|---|
| Photo card | |
| (2)<br>Academic transcript of the Master's program<br>(3)<br>Certificate of (expected) completion of the Master's program | Issued by the president/dean of the university attended (Original hard copy)<br>**[*Note]**<br>*If you have graduated from a higher education institution in the People's Republic of China<br>Instead of submitting degree certificates and transcripts, students may submit the Academic credentials certification report and the Grade Certification Report issued by the China Higher Education Student Information (CHSI) or the Japanese Agency of the China Academic Record and Student Registration Certification Centre. These documents will also be accepted. |
| (4)<br>Master's thesis or<br>an equivalent work | Submit a thesis abstract alternatively if you can't submit a master's thesis by the application due date. |
| (5)<br>Payment certificate or Printout of the "Results page" | • 30,000 Japanese yen (Entrance examination fee)<br>• **The entrance examination fee will not be refunded for any reason once the application is processed.**<br>• Applicants who completed the Master's program at Tokyo Metropolitan University in March 2025 or who are expected to complete it in September 2025 are exempted from paying the entrance examination fee.<br>**【Online payment (e-payment site)】**<br>[Payment on the Japanese website]<br>Paste the "Payment certificate" portion of the "Handling statement of entrance exam/screening fee" on the "Certificate for a Fee Payment by Online Payment System" provided in these Guidelines.<br>[ Payment on the English website]<br>Submit a printout of the "Results page." |
| (6)<br>Return-mail envelope | Write down your address, name, and postal code and affix 410-yen postage stamps (express delivery fee included) on a return envelope (12 cm x 23.5 cm size). |
| (7)<br>Student visa support request form | When any support is necessary for the acquisition/renewal of the visa, fill out the "Request for support regarding acquisition/renewal of student visa" and submit it together with the application documents.<br>Please note that support will be provided only for visa acquisition/renewal at the time of enrollment, not at the time of entrance examination. |
| (8)<br>Certificate of receipt of the government-financed scholarship | Government-financed international students (through Embassy recommendation or Domestic selection) who are currently enrolled at another university but are wishing to enter this University must submit the certificate of receipt of the government-financed scholarship.<br>Note: For information on the scholarship period extension for a high-ranking |

| | |
|---|---|
| | academic program (including this Doctoral program), please confirm with the university currently attending. |
| (9)<br>Application form for the long-term study system | If you wish to have the long-term study system applicable upon enrollment, obtain the Application information and forms on the website of the Graduate School of Science (https://www.se.tmu.ac.jp/en/entrance_exam.html). Submit the completed forms together with other required application documents. |

**[*Note]**

Applicants who completed the Master's program at Tokyo Metropolitan University in March 2025 or are expected to complete it in September 2025 are not required to submit documents (2) and (3).

## 8. Screening Method for Applicants

Successful applicants will be selected comprehensively based on the oral examination results, the contents of the master's thesis (or an equivalent work providing an outline of recent research), and the academic transcript issued at the university attended.

(1) Examination date: **August 25 (Mon), 2025**

(2) Examination venue: Building No. 8, 11 or 12 Minami-Osawa Campus, Tokyo Metropolitan University
(Applicants will be notified of the details when receiving the Exam Admission Card.)

Examination subjects (oral examination): Specialized subjects mainly in the form of oral examination

| Department | Subject |
|---|---|
| Mathematical Sciences | Math |
| Physics | Physics |
| Chemistry | Chemistry |
| Biological Sciences | Biology |

See page 16 for the examination timetable.

## 9. Announcement of Results

Date & Time: **September 8 (Mon), 2025 at 2:00 pm**

Exam admission card numbers of the successful applicants will be posted on the website of the Graduate School of Science (https://www.se.tmu.ac.jp/). Therefore, make sure to confirm the results. Please note that telephone inquiries are not accepted.

(1) A Letter of acceptance and other documents will be provided to the successful applicants in exchange for the Exam admission card at the Academic Affairs Section of Science, Academic and Student Affairs Division of Sciences, Administrative Affairs Department of Tokyo Metropolitan University on the dates below.

**September 8 (Mon), 2025 from 2:00 pm - 5:00 pm**

**September 9 (Tue), 2025 from 10:00 am -12:00 pm and 2:00 pm -5:00 pm**

(2) If you wish to have the results or the admission procedures documents sent to you by post, please submit, after the oral examination, your Exam admission card and an A4 size self-addressed return-mail envelope (24 cm x 33.2 cm, with your exam admission card number written and 730-yen postage stamps affixed) to the Academic Affairs Section of Science, Academic and Student Affairs Division of Sciences, Administrative Affairs Department of Tokyo Metropolitan University.

## 10. Admission Procedure

Successful applicants are requested to complete admission procedures by **September 12 (Fri), 2025**. Details will be notified after the announcement of results.

## 11. Admission Fees, Tuition Fees, and Scholarships

(1) Admission fee

Residents of Tokyo: 141,000 Japanese yen (tentative amount)
Others: 282,000 Japanese yen (tentative amount)

Note:

- If the admission fee is revised, the new price shall apply.
- **Successful applicants who completed the Master's program at Tokyo Metropolitan University in March 2025 or are expected to complete it in September 2025 are exempted from paying the admission fee.**
- **A "resident of Tokyo" refers to the one whom he/she, or his/her spouse or a first-degree relative has lived in Tokyo continuously for one year or longer (from October 1, 2024) before the day of enrollment (October 1, 2025). The decision for granting certification of "resident of Tokyo" will be made based on the applicant's "Certificate of Items Stated in Resident Register" if the applicant him/herself lives in Tokyo, or in other cases "Certificate of Items Stated in Resident Register" and "Extract of Family Register" of his/her relative living in Tokyo.**

(2) Tuition fee

Annual amount: 520,800 Japanese yen (tentative amount)

Note:

- The tuition fee should be paid by account transfer. Half of the annual amount (260,400 Japanese yen) is charged from the bank account in late October and late April.
- If the tuition fee is revised during the Academic Year 2025, the new price shall apply.
- A tuition fee waiver is available.

(3) Scholarships available

- **Benefit type of scholarships**

  Benefit-type scholarships are available to those enrolled in the Doctoral program of Tokyo Metropolitan University. Details can be confirmed on the website of the Student Affairs Division (https://gs.tmu.ac.jp/scholarship/) (Japanese site).

  If you wish to apply, please contact the Academic Affairs Section of Science before the application period starts. An individual application is not required because the university selects the candidates after screening.

  Please note that a scholarship will not be provided to all applicants due to budgetary limits.

## 12. Opportunities to Participate in Education and Training

Teaching assistant/research assistant positions and the financial support for participating in domestic/international academic conferences are available to graduate students.

## 13. Important Reminders

(1) Incomplete application documents will not be accepted.

(2) No documents submitted will be returned, nor will the entrance examination fee be refunded for any reason after the application has been processed.

(3) Make sure to bring the Exam admission card on the day of the examination.

(4) If any fraud or other act of dishonesty is found during the entrance examination or in the application procedure, enrollment will be rescinded even after admission has been granted.

(5) Thuro not recommend or introduce accommodation to examinees.

(6) Tokyo Metropolitan University has established the "Tokyo Public University Corporation Security Export Control Regulations" based on the "Foreign Exchange and Foreign Control Trade Law" and carries out strict screening from the perspective of providing technology and exporting goods when accepting international students.

Please note that those falling under the regulated matters may not be admitted to the University or be restricted in the research activities they wish to do at the University. For further information, please refer to the following website of the University's Security Export Control.

https://www.tmu.ac.jp/cooperation/compliance/exportcontrol.html

## 14. Payment of Entrance Examination Fee

(1) Online payment (e-shiharai.net)

Register for e-shiharai.net (https://e-shiharai.net/) in advance and pay either at a convenience store, through Pay-easy ATM/Internet Banking, by credit card, through UnionPay service. (In the case of payment made outside Japan, credit card, and UnionPay service are acceptable).

For the payment method details, please refer to a separate sheet titled “How to Pay the Entrance Examination Fee to the Graduate School of Science of Tokyo Metropolitan University (Application from

within and outside Japan).” The service charge should be shouldered by the remitter.

**[Payment made on the Japanese website]**

After the payment, detach the “Payment certificate” portion of the “Handling statement of entrance exam/screening fee,” paste it on the “Certificate for a Fee Payment by Using Payment Slip or Online Payment System”, and submit it together with the application documents.

**[Payment made on English website]**

After the payment, submit a printout of the “Results page” together with the application documents.

**<Payment period>**

**July 11 (Fri) – August 1 (Fri), 2025**

**<Note>**

For questions concerning the procedures of e-shiharai.net, please refer to “Frequently Asked Questions” on the following website (https://e-shiharai.net/ecard/sss/FAQ.html) and then contact the e-Service Support Center.

**【Exemption from the entrance examination fee for the victims of natural disasters】**

Applicants affected by any of the natural disasters (The Great East Japan Earthquake occurred in March 2011, Heavy rain in July 2020 and Noto Peninsula Earthquake occurred in January 2025) will be exempted from paying the entrance examination fee. Before paying the entrance examination fee, please consult with the Academic Affairs Section of Science, Administrative and Student Affairs Division of Sciences.

Note: A refund can be made only when an applicant paid the entrance examination fee but didn’t send the application documents or paid the fee twice by mistake. For details, please see the following University’s website. https://www.tmu.ac.jp/campus_life/tuition/expenses.html (Japanese site)

## 15. Handling of Personal Information

Please acknowledge beforehand that Tokyo Metropolitan University handles personal information strictly following laws and regulations as follows:

(1) Personal information obtained through the admission selection, including applicants’ names and addresses, etc., shall be used for screening (processing applications, conducting selection, and announcing successful applicants) and admission procedures. Additionally, personal information of enrolled students will be used for the procedures concerning 1) academic affairs (school register, educational guidance, etc.), 2) student support service (healthcare, employment support, tuition fee reduction/exemption, scholarship application, etc.), and 3) clerical work for tuition collection.

(2) Admission evaluation results gained through the admission selection will be used to prepare documents for future admission selection procedures.

## 16. Timetable for the 2025 Entrance Examinations to the Graduate School (Doctoral Program)

Graduate School of Science, Tokyo Metropolitan University

| Department | August 25 (Mon), 2025 | Remarks |
|---|---|---|
| Mathematical Sciences | 10:00 am – 3:00 pm<br>Math<br>(Oral examination) | The oral examination consists of a presentation on the contents of the master's thesis (approx. 15 minutes). Own laptop PC can be used for the presentation. |
| Physics | 10:00 am – 3:00 pm<br>Physics<br>(Oral examination) | The oral examination consists of a presentation on the contents of the master's thesis or an outline of recent research followed by an interview. |
| Chemistry | 10:00 am – 3:00 pm<br>Chemistry<br>(Oral examination) | The oral examination consists of a presentation on the contents of the master's thesis or an outline of recent research followed by an interview. |
| Biological Sciences | 10:00 am – 3:00 pm<br>Biology<br>(Oral examination) | The oral examination consists of a presentation on the contents of the master's thesis or an outline of recent research followed by an interview. |

Precautions for taking the entrance examinations:

1. Make sure to arrive at the exam anteroom 10 minutes before the specified examination time on the examination day. Follow the instructions of the test proctor.
2. Locations of examination venue will be indicated by displays on the examination day.

# 17. Introduction of Thesis Advisors, Visiting Professors from Partner Institutions, and Study Fields of the Graduate School of Science

(1) Professors whose names are marked with "*" are scheduled to retire in March 2027 and those marked with "**", in March 2028.

(2) Numbers 1, 2, …on the rightmost column should correspond to the field number written down in the "application field" of the Application Form.

(3) The Graduate School of Science has concluded an agreement on a joint graduate school program with research institutes based on which students can receive research guidance from visiting professors from the partner institutes. The names, study fields, and study descriptions of visiting professors are mentioned separately after the list of this University's faculty members in each Department. For details, please contact a university faculty member who has the same field number as the visiting professor from a partner institute.

As of April, 2026 (Scheduled)

◆Mathematical Sciences

| Research Field | Thesis Advisor | | Research Subject | Field Number |
|---|---|---|---|---|
| Algebra | Professor | KURODA, Shigeru | Affine Algebraic Geometry, Polynomial Ring Theory | 1 |
| Analysis | Associate Professor | SHIMOJO, Masahiko | Reaction Diffusion Equations, Dynamical Systems | 2 |
| Analysis | Professor | YOSHITOMI, Kazushi | Partial Differential Equations, Pseudo-Differential operators | 3 |
| Geometry | Associate Professor | FUKAYA, Tomohiro | Geometric Group Theory, Coarse Geometry | 4 |
| Algebra | Professor | TSUMURA, Hirofumi * | Analytic Number Theory | 5 |
| Algebra, Geometry | Professor | TOKUNAGA, Hiro-o * | Algebraic geometry, Topology of algebraic curves and surfaces, Arithmetic of Branched Covers | 6 |
| Geometry | Professor | YOKOTA, Yoshiyuki | Knot, 3-Manifold, Quantum Invariant | 7 |
| Geometry | Associate Professor | AKAHO, Manabu | Symplectic Geometry, Floer Theory, Morse Theory | 8 |
| Algebra, Geometry | Professor | UEHARA, Hokuto | Algebraic Geometry, Classification Theory of Higher Dimensional Algebraic Varieties, Derived Categories of Coherent Sheaves | 9 |
| Algebra, Geometry, Applied Mathematics | Associate Professor | KOBAYASHI, Masanori | Algebraic Geometry, Mirror Symmetry, Related Mathematical Sciences | 10 |
| Geometry | Professor | SAKAI, Takashi | Differential Geometry, Submanifold Theory | 11 |
| Applied Mathematics, Algebra | Professor | UCHIYAMA, Shigenori | Cryptography, Algorithmic Number Theory | 12 |
| Applied Mathematics, Algebra | Associate Professor | YOKOYAMA, Shun-ichi | Symbolic Computation, Computational Number Theory, Cryptography | 13 |
| Applied Mathematics, Analysis | Associate Professor | ISHITANI, Kensuke | Probability Theory, Mathematical Finance | 14 |
| Applied Mathematics, Algebra | Associate Professor | UCHIDA, Yukihiro | Algorithmic Number Theory, Arithmetic Geometry, Cryptography | 15 |
| Applied Mathematics | Associate Professor | SUZUKI, Toshio | Theory of Computing, Mathematical Logic | 16 |
| Analysis | Associate Professor | SEKI, Yukihiro | Nonlinear Partial Differential Equations, Reaction-Diffusion Systems, Asymptotic Analysis | 17 |
| Applied Mathematics, Analysis | Professor | SVADLENKA, Karel | Calculus of Variations, Partial Differential Equations, Mathematical Modeling, Numerical Analysis | 18 |
| Algebra, Geometry | Associate Professor | KANEMITSU, Akihiro | Algebraic Geometry, Vector bundles on algebraic varieties | 19 |
| Applied Mathematics | Associate Professor | SATO, Shun | Numerical analysis, Continuous optimization | 20 |
| Geometry | Associate Professor | KAZUKAWA, Daisuke | Geometric Analysis, Metric Measure Spaces, Convergence Theory, Concentration of Measure Phenomenon | 21 |

◆Physics

| Research Field | Thesis Adviser | | Research Subject | Field Number | Group |
|---|---|---|---|---|---|
| Particle Physics | Associate Professor | YIN Wen | Particle Physics, Particle Cosmology | 1 | A |
| Cosmology and Gravitation | Associate Professor | MOTOHASHI Hayato | Cosmology, Gravitational Physics | 2 | |
| Theoretical Astrophysics | Professor | FUJITA Yutaka | High-Energy Astrophysics, Cosmology | 4 | |
| Quantum Condensed Matter Theory | Professor<br>Associate Professor | MORI Hiroyuki *<br>ARAHATA Emiko | Low-Dimensional Systems, Cold Atoms, Quantum Phenomena<br>Quantum Gases, Superconductivity, Superfluidity | 6 | B |
| Strongly Correlated Electron Theory | Professor<br>Associate Professor | HOTTA Takashi<br>HATTORI Kazumasa | Theory of Magnetism and Superconductivity in Strongly Correlated Electron Systems<br>Condensed Matter Theory, Strongly Correlated Electron Systems, Quantum Critical Phenomena | 7 | |
| Computational Materials Science | Associate Professor | NOMOTO Takuya | Theoretical research on magnetism, superconductivity, and other quantum phenomena and the search for new materials | 8 | |
| Experimental High Energy Physics | Professor | KAKUNO Hidekazu | Experimental High Energy Physics, Experimental Neutrino Physics | 9 | C |
| Experimental Astrophysics | Professor<br>Associate Professor | EZOE Yuichiro<br>ISHISAKI Yoshitaka | X-ray Astronomy, Observations and Instrumentation | 11 | |
| Soft Matter Physics | Professor | KURITA Rei | Soft Matter, Phase Transition, Non Equilibrium | 12 | D |
| Correlated Electron Physics | Professor<br>Professor | AOKI Yuji<br>MATSUDA Tatsuma | Condensed Matter Physics, Spintronics, Topological, Strongly-Correlated Electron Systems, Superconductivity and Magnetism | 13 | |
| Superconducting Material | Associate Professor | MIZUGUCHI Yoshikazu | Condensed Matter Physics, Superconductivity, Functional Materials | 14 | |
| Nanostructure Physics | Professor | YANAGI Kazuhiro | Condensed Matter Physics in Nano Materials and Integrated Nanostructures, Material Science | 15 | |

※There are no Field Numbers 3, 5 and 10 in Physics group.

Affiliated graduate school

| Research Field | Guest teacher | Affiliation | Research Subject |
|---|---|---|---|
| Strongly Correlated Electron Theory (Field 7) | KUBO Katsunori | JAEA | Theory of Superconductivity and Multipole Ordering Emerging from Multiple Degrees of Freedom |
| Experimental High Energy Physics (Field 9) | ADACHI Ichiro<br>NISHIDA Shohei | KEK | High Energy Physics using SuperKEKB collider and Belle II detector, Search for New Physics beyond the Standard Model |
| Astrophysics (Field 11) | ISHIDA Manabu | JAXA | X-ray Astronomy, Observations and Instrumentation |

◆Chemistry

| Research Field | Thesis Adviser | | Research Subject | Field Number |
|---|---|---|---|---|
| Coordination Chemistry | Professor | SUGIURA, Ken-ichi ** | Synthetic Chemistry | 1 |
| | Associate Professor | ISHIDA, Masatoshi | Coordination Chemistry, Dye Chemistry | |
| Environmental Geochemistry | Professor | TAKEGAWA, Nobuyuki | Atmospheric Chemistry, Aerosol, Online Particle Analysis, Optical Particle Characterization, Microparticles in Ocean and Cryosphere | 2 |
| | Associate Professor | MOTEKI, Nobuhiro | | |
| Inorganic Chemistry | Professor | YAMAZOE, Seiji | Functional Materials Chemistry, Catalytic Chemistry, X-ray Spectroscopy | 3 |
| | Associate Professor | OURA, Yasuji | Radiochemistry, Cosmochemistry, Cosmogenic Nuclides | |
| | Associate Professor | KAWASOKO, Hideyuki | Solid state chemistry, Solid state physics, Electrochemistry | |
| Organic and Structural Biochemistry | Professor | ITO, Yutaka | Solution-State NMR, In-cell NMR, Structural Biology | 4 |
| | Associate Professor | IKEYA, Teppei | Biophysical Chemistry, NMR-based Structural Biology, Computational Biology | |
| Organic Chemistry | Professor | NOMURA, Kotohiro | Organometallics, Molecular Catalysis, Organic Synthesis | 5 |
| | Associate Professor | Abdellatif Mohamed Mehawed | Polymer Chemistry, Materials Science | |
| Biochemistry | Professor | HIROTA, Kouji | DNA Repair, Chromatin, Replication | 6 |
| | Associate Professor | TAOKA, Masato | Proteomics, RNA, Biochemistry | |
| Solid State Physical Chemistry | Professor | HIROSE, Yasushi | Solid State Chemistry, Thin Film Synthesis, Oxide Electronics | 7 |
| | Associate Professor | OKA, Daichi | | |
| Physical Chemistry of Molecular Structure and Reaction | Professor | KANYA, Reika | Physical Chemistry, Atomic Molecular Optical Physics | 9 |
| | Associate Professor | OKUMURA, Takuma | | |
| Synthetic Organic Chemistry | Professor | KUSUMOTO, Shuhei | Organo main group chemistry, Organometallic chemistry | 10 |
| | Associate Professor | DOI, Ryohei | | |
| Theoretical and Computational Chemistry | Professor | NAKATANI, Naoki | Quantum Chemistry, Electronic Structure Theory, Transition Metal Complexes | 11 |
| Isotope Chemistry | Associate Professor | KUBUKI, Shiro | Chemistry of Glass and Ceramics,Radiochemistry of fullerenes | 12 |

※There is no Field Number 8 in Chemisry group.

Affiliated graduate school

| Research Field | Guest teacher | Affiliation | Research Subject |
|---|---|---|---|
| Organic and Structural Biochemistry (Field 4) | MIKAWA, Tsutomu | RIKEN | Biofuel cell which mimics metabolic pathways, Functional analysis of proteins which are important for homologous recombination |

◆Biological Sciences

| Section | Research Field | Thesis Adviser | | Research Subjects | Field Number |
|---|---|---|---|---|---|
| Biology | Molecular Neuroscience | Prof. | ANDO, Kanae | Neuroscience, Cell Biology, Molecular Biology, Neurological Diseases and Aging | 1 |
| | Developmental Biology | Assoc. Prof. | FUKUDA, Kimiko | Morphogenesis, Digestive Tract, Extra-embryonic Tissue | 2 |
| | | Assoc. Prof. | TAKATORI, Naohito | Germ Layer Fates, mRNA Localization, Cell Polarity, Nuclear Migration | 3 |
| | Cellular Biochemistry | Prof. | KAWAHARA, Hiroyuki | Protein Quality Control, Cell Cycle Control, Ubiquitin System | 4 |
| | | Assoc. Prof. | OTANI, Tetsuhisa | Cell-cell Adhesion and Regulation of Homeostasis | 5 |
| | Cellular Genetics | Prof. | SAKAI, Takaomi | Molecular and Celluler Mechanisms of Learning and Memory | 6 |
| | Molecular Genetics | Prof. | EHIRA, Shigeki | Molecular Biology & Molecular Physiology of Microorganisms | 7 |
| | | Assoc. Prof. | OHBAYASHI, Ryudo | Molecular Biology & Evolution of Polyploid Microorganisms | 8 |
| | Plant Development and Physiology | Prof. | OKAMOTO, Takashi | Plant Development, Plant Reproduction | 9 |
| | Evolutionary Genetics | Prof. | TAKAHASHI, Aya | Evolutionary Genetics, Molecular Basis of Speciation, Population Genomics | 10 |
| | | Assoc. Prof. | NOZAWA, Masafumi | Evolutionary Genetics, Evolution of Sex Chromosomes, Evolution of Small RNAs | |
| | Plant Environmental Responses | Assoc. Prof. | NARIKAWA, Rei | Photobiology, Photosynthesis, Optogenetics | 12 |
| | Environmental Microbiology | Prof. | HARUTA, Shin | Microbial Ecosystems, Interspecies Interaction, Ecophysiology | 13 |
| | Animal Ecology | Assoc. Prof. | CRONIN, Adam L. | Behaviorual Ecology, Evolutionary Ecology, Collective Behavior, Systems Biology | 14 |
| | | Assoc. Prof. | OKAMURA, Yu | Evolutionary Ecology, Chemical Ecology, Plant-Animal interaction | 15 |
| | Plant Ecology | Prof. | SUZUKI, Jun-Ichirou | Plant Ecology, Conservation Ecology | 16 |
| | Systematic Zoology | Assoc. Prof. | EGUCHI, Katsuyuki | Systematics and Biogeography of Terrestrial Invertebrates (mainly Terrestrial Arthropods) | 17 |
| | Systematic Botany | Prof. | TAKAYAMA, Koji | Systematics, Biogeography, and Conservation Biology of Land plants | 18 |
| Biomedicine and Biotechnology | Molecular Neuroscience | Prof. | ANDO, Kanae | Neuroscience, Mechanisms underlying Alzheimer's disease and other tauopathies, Drosophila models of neurodegenerative disease | 1 |
| | Developmental Biology | Assoc. Prof. | TAKATORI, Naohito | Asymmetric Cell Division, Cell Morphology, Cell Cycle | 3 |
| | Cellular Biochemistry | Prof. | KAWAHARA, Hiroyuki | Protein Quality Control Mechanisms Related to Immunology, Oncology, Diabetes and Neurodegenerations | 4 |
| | Cellular Genetics | Prof. | SAKAI, Takaomi | Stress-induced Brain Plasticity in *Drosophila* | 6 |
| | Plant Development and Physiology | Prof. | OKAMOTO, Takashi | Production of New Crops by in Vitro Fertilization System | 9 |

※There are no Field Number 11 in Biological Sciences group.

◇ Affiliated graduate school

| Field Number | Guest Professor | Affiliation | Research Subjects |
|---|---|---|---|
| 1 | MIURA, Yuri | Tokyo Metropolitan Institute for Geriatrics and Gerontology | Search for Diagnostic Markers Using Proteome-based Technologies |
| 1 | NONAKA, Takashi | Tokyo Metropolitan Insitute of Medical Science | Molecular Mechanisms of Neurodegenerative Diseases |
| 1 | KONDO, Yoshitaka | Tokyo Metropolitan Institute for Geriatrics and Gerontology | Dietary Macronutrient Balance for Healthy Longevity |
| 2 | MARUYAMA, Chiaki | Tokyo Metropolitan Insitute of Medical Science | Brain Development, Cell Migration, Neocortical Evolution |
| 4 | INOUE, Azusa | RIKEN Integrative Medical Sciences | Intergenerational Epigenetic Inheitance in Mammals |
| 6 | UENO, Kohei | Tokyo Metropolitan Insitute of Medical Science | Neural Plasticity in the *Drosophila* Brain |
| 9 | MIYADO, Kenji | National Center for Child Health and Development | Molecular Mechanisms of Fertilization and Embryo Implantation, and Establishment of Intrauterine Environment by Symbiotic Bacteria in Animals |
| 11 | IYODA, Sunao | National Institute of Infectious Diseases | Genomics, Cell Biology, and Molecular Biology Studies to Elucidate the Pathogenicity of Diarrheagenic Bacteria. |
| 12 | YOSHITANE, Hikari | Tokyo Metropolitan Insitute of Medical Science | Circadian Clock and Lifespan/Aging Timer |
| 13 | IINO, Takao | RIKEN, BioResource Research Center | Isolation and Polyphasic Taxonomy of Yet-to Be Cultured Archaea and Bacteria. |
| 13 | SOMEYA, Yuichi | National Institute of Infectious Diseases | Cell Biology, Biochemistry and Structural Biology of Diarrheal Viruses |