

## **Admission Guidelines for the Academic Year 2026 for the World-leading INnovative Graduate Study Program (WINGS), Frontiers of Mathematical Sciences and Physics (WINGS-FMSP)**

The University of Tokyo conducts the *World-leading INnovative Graduate Study Program* (WINGS) that is Doctoral Programs cooperated by several graduate schools and institutes in order to foster doctoral personnel who contribute to human society with high research power and expertise. The Graduate School of Mathematical Sciences conducts the *Frontiers of Mathematical Sciences and Physics* (WINGS-FMSP) and recruits course students.

### **Prospective profile of FMSP course graduates**

The key to innovation in sciences and society is the construction and renewal of the underlying mathematical theory. We aim to foster the next generation of mathematical science leaders who can create research areas that are centered on mathematics and spread in various sciences and deepen and create novel mathematical theories.

**The WINGS-FMSP website** <https://www.ms.u-tokyo.ac.jp/wings-fmsp/>

### **1. Application requirements**

To apply for this program under the following guidelines, you must fulfill all of the requirements listed below.

- You must be a 1st-year student at the University of Tokyo enrolled in the Master Course of one of the following eight Graduate Schools as of October 2026 (\*1): *Mathematical Sciences, Science, Economics, Frontier Sciences, Engineering, Information Science and Technology, Medicine, and Arts and Sciences*, the University of Tokyo.
- You aim to acquire a PhD degree in fields related to mathematical sciences, in a broad sense of the term.
- You are interested in the social/industrial applications of science, and eager to actively learn about them.
- You fully understand the purpose of the WINGS-FMSP course, as well as its rules, such as course requirements.
- You intend to enroll in the Doctoral program at one of the eight graduate schools participating in the WINGS-FMSP program (\*2).

- You agree to apply for DC1/DC2 in the JSPS Research Fellowship for Young Scientists, and should you be accepted, you also agree to stay in the WINGS-FMSP course. (This requirement does not apply for government-sponsored foreign students.)
- You understand and agree to the fact that your PhD diploma will bear a note saying that you have completed the WINGS-FMSP course.

(\*1) You may not simultaneously apply for WINGS-FMSP and another WINGS program. Here, “simultaneously apply” refers to applying to multiple programs whose application-to-admission decision periods overlap. If the periods do not overlap, applicants may reapply even if they have previously been unsuccessful in another WINGS program.

(\*2) You may not enroll in the WINGS-FMSP program if you are planning to find business employment when you finish your Master's program.

## **2. Selection method**

Selection will be based on the prospective students' application documents (Applicant Information, Research Proposal, Essay, and Supervisor's Letter of Opinion), their scores in the graduate school entrance examination and their scores in the graduate course.

## **3. Enrollment period**

New WINGS-FMSP course students will be enrolled in the program from October 1, 2026 to March 31, 2028. In February 2028, a Qualifying Examination will take place to select those to be permitted to stay on the program through their Doctoral years. Students who are selected will be enrolled in the WINGS-FMSP course up to March 31, 2031.

## **4. Financial support**

WINGS-FMSP course students are appointed as *Takuetsu (Excellence) Research Assistants (TRAs)* and are provided with financial support in the form of salary as compensation for their research activities. In the master's program, a monthly salary of JPY 120,000 is provided from October 2026 to March 2027. Subject to approval in the review conducted in March 2027, a monthly salary of JPY 150,000 will be provided from April 2027 to March 2028. In the doctoral program, a monthly salary of JPY 180,000 is provided. Appointments are made on a yearly basis, and the maximum duration of support is three years.

The amount of the TRA salary may be subject to change depending on the budgetary situation of the program.

If a student applies for and is awarded a JSPS Research Fellowship for Young Scientists (DC1/DC2), the salary will not be provided from the fiscal year in which the fellowship is awarded.

Students who do not wish to be appointed as TRAs may still apply to this program. For example, because they are receiving other scholarships for which concurrent receipt is not permitted, or due to concerns regarding dependent tax exemption.

(\*1) The appointment of TRAs will start on October 1, 2026.

(\*2) Income tax will be deducted from your TRA salary every month. You must therefore make a year-end adjustment or file a final tax return.

## 5. Seats available

Graduate Schools	Number of new students to be admitted
Mathematical Sciences Science Economics Frontier Sciences Engineering Information Science and Technology Medicine Arts and Sciences	12

## 6. Selection announcement and enrollment procedures

- The results of the admission selection will be posted in the WINGS-FMSP website Thursday, August 27, 2026 around 13:00. The applicants will also receive their results by email.
- Enrollment documents will be emailed to successful applicants with the selection results. Those who have been accepted must finish the necessary procedures (submitting the enrollment documents) by 13:00 on Thursday, September 3, 2026. Those who fail to hand in the necessary documentation by the deadline will be treated as having declined to enroll in the WINGS-FMSP program.

## 7. Application procedures

### (1) Application documents

- a. The *WINGS-FMSP Course Application* form: Fill out the form by the applicant (yourself) and save it as a *pdf* file.
- b. The *Letter of Opinion on the Applicant* form: Ask your expected supervisor to fill out the form and save it as a *pdf* file.

Those forms are available on the WINGS-FMSP webpage.

### (2) How to apply

- a. The applicant must send the *WINGS-FMSP Course Application* form by email to the following address. The name of the applicant should be clearly written on the email subject.
- b. The applicant's (expected) supervisor must directly send the *Letter of Opinion on the Applicant* form by email to the following address. The name of the applicant should be clearly written on the email subject.

The application will not be considered unless all of the necessary documents (including the supervisor's letter of opinion) are submitted by the deadline.

### (3) Application periods

From Monday, July 6 until Friday, July 10, 2026

### (4) Email address

fmsp-group@g.ecc.u-tokyo.ac.jp

## 8. Notes

- Only applications for which all of the necessary documentations are submitted by the deadline will be considered.
- Under no circumstances may an applicant change the contents of their application, once it has been submitted.
- There may be changes made to this guideline or the application procedure due to unforeseen reasons. In such cases, an announcement will be made for potential applicants.
- The personal information made known to the WINGS-FMSP program through the application process will be used for the following purposes: (i) selection of WINGS-FMSP course students (application processing and selection), (ii) announcement of selected applicants, and (iii) enrollment procedures. For the selected applicants only, the information will further be used for administrative duties relating to: (i) academic affairs (e.g. registration, enrollment), and (ii) student support (e.g. employment assistance, tuition waiver applications).

- A student who has made a false statement in their application, even after being selected to join the program, may have their status as a WINGS-FMSP student taken away from them retroactively.

## **9. Contact information**

The WINGS-FMSP Desk, the Graduate School Office of the Graduate School of Mathematical Sciences, the University of Tokyo

E-mail: [fmsp-group@g.ecc.u-tokyo.ac.jp](mailto:fmsp-group@g.ecc.u-tokyo.ac.jp)

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## **Appendix: Overview of WINGS-FMSP Activities**

The WINGS-FMSP program aims to foster the next generation of mathematical science leaders who can create research areas that are centered on mathematics and spread in various sciences and deepen and create novel mathematical theories. Students who are considering applying for this program should consult with their (expected) supervisor and understand the following activities carefully before the application.

### **Credits**

Students must earn at least 6 credits from the 82 courses offered as lectures in this WINGS program (see the WINGS web page for a list of lectures). In particular, "Frontiers of Mathematical Sciences and Society III (社会数理先端科学Ⅲ)" in the Doctoral course is required. In addition, "Frontiers of Mathematical Sciences and Society" is offered as "Practical Research in Mathematical Sciences and Society (社会数理实践研究)" as described below.

### **Internship**

In the Doctoral program, students are required to do one of the following:

- (1) Internship at domestic companies or research institutions
- (2) Internship in a laboratory of another graduate school within the university (within a participating eight graduate schools)

### **Practical Research in Mathematical Sciences and Society (社会数理实践研究)**

- This activity involves conducting research that goes beyond conventional applications of mathematics by applying mathematical knowledge and creating new mathematics to address problems presented by participating organizations such as industry and other sectors.
- Course students are required to take this component once during their doctoral studies. Credit for the required course "Frontiers of Mathematical Sciences and Society III (社会数理先端科学Ⅲ)" is granted through participation in this course. It is intended to be taken in the first year of the doctoral program.
- Students are organized into groups according to the participating organizations. Each student selects one project and joins a corresponding group. In collaboration with the assigned assistant professor, project assistant professor, and educational support staff, and with advice from representatives of the participating organization, students carry

out their research. On average, research meetings and progress reports are held once a month. Students are expected to devote no more than 10% of their overall research activities to this component.

- Students present progress at the WINGS-FMSP midterm presentation meeting and final results at the *Workshop of Practical Research in Mathematical Sciences*. In addition, research outcomes are summarized in a letter-style paper (in Japanese or English, 2 pages or more) and published in the *Practical Research Letters in Mathematical Sciences*, a peer-reviewed electronic journal edited by the Graduate School of Mathematical Sciences.

### **Qualifying Exam (QE)**

A Qualifying Examination (QE) will be conducted intended for current WINGS-FMSP M2 students to select those permitted to remain in the program as Doctoral students. For this purpose, the evaluation of the master's thesis, the results of the doctoral entrance examination, and the results of the poster presentation will be taken into consideration. For details of the poster presentation, please refer to the WINGS-FMSP web page.

### **Secondary Supervisor**

In addition to the supervisor, each WINGS-FMSP student is assigned a secondary supervisor. Students are required to report their research to their secondary supervisor at least once a year, and receive advice on participation in research meetings organized by WINGS-FMSP, acquisition of credits, and dispatch abroad, etc. The course student should take the initiative in contacting and arranging interviews. Only the faculty member in charge of this WINGS program may serve as a secondary supervisor.