2023
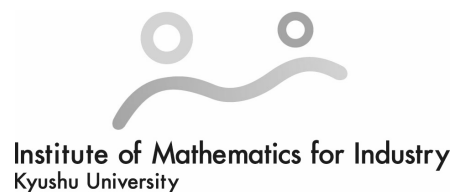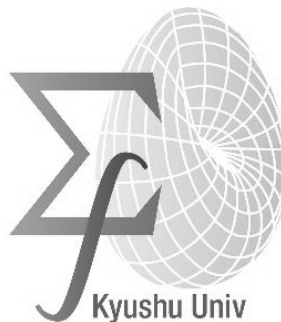# Graduate School of Mathematics, Kyushu University Doctoral Course

Guideline for Special Screening of International Students for Admission in October, 2023

KYUSHU UNIVERSITY

Kyushu Univ

Institute of Mathematics for Industry
Kyushu University

1. Department and number of students to be admitted

Department	Courses	Number of Students	Note
Mathematics	Mathematics	A few	The number shall not exceed the quota for the department in the Graduate School of Mathematics.

2. Qualification for application

Applicants must be citizens of countries other than Japan with Status of Residence "Student" (including those who are expected to acquire this status after being admitted), and satisfy one of the following requirements:

(1) Those who hold or are to receive a degree equivalent to a Master's Degree in countries other than Japan by September 30, 2023.

(2) Those who are evaluated to have an academic ability equal to or surpassing that of a holder of a Master's Degree in a Preliminary qualification examination of the Graduate School (see the note below), and who will be 24 years old or older by September 30, 2023.

(Note) "(2) Those who are evaluated to have an academic ability equal to …." applies to those applicants who do not satisfy (1), and who have completed a course at an educational institute equivalent to a graduate school.

(Note) Preliminary qualification examination for application

Applicants who qualify under (2) above must submit themselves to a Preliminary qualification examination for application. Such applicants must submit application form and other relevant documents to the Student Support Office, Graduate School of Science by the deadline specified below, after receiving an approval from his/her prospective supervisor.

Only the applicants who have passed the qualification examination are allowed to take the entrance examination, and the application form and other relevant documents submitted by the applicants will be accepted.

Examination card and relevant documents will be sent to applicants after the payment of the application fee is confirmed. The application documents submitted by those who have been declared as "not qualified" shall be returned.

○ Application period for the Preliminary qualification examination for application:
June 26 (Mon) to June 30 (Fri), 2023.

○ The examination results of Preliminary qualification examination for application will be announced to the applicants promptly.

3. Documents to be submitted

Before starting the application procedure, at the earliest opportunity, an applicant is requested to obtain consent from a potential supervisor and confirm whether he/she can accept the applicant. To find the contact information, simply type his/her name in the search box in the Kyushu University website.

(1) Application form and Resume (Use the form provided by the Graduate School of Mathematics.)

(2) Academic Transcript and Certificate of Completion with the name of degree (or Expected Completion Certificate) issued by the educational institution from which the applicant graduated last (copies are not accepted)

(3) Master's thesis (A copy is acceptable. If the thesis is written in a language other than Japanese or English, a summary of Master's thesis written in Japanese or in English must be attached. For applicants who cannot submit Master's thesis, submit documents of research achievement such as academic papers.)

(4) Certificate of Japanese or English language ability (A copy is acceptable.)

(5) Copies of both sides of Resident Card or Residence Certificate (only for those living in Japan)
※A copy of passport, including the pages with your name, nationality, photograph and expiration date. (for those living outside of Japan)

(6) Application fee (30,000 yen). The Application fee is not required for students who are currently Japanese Government MEXT Scholars.

Application fee must be paid either (i) at a convenience store or (ii) by credit card after registering at the following website ("e-shiharai site", https://e-shiharai.net/). (Payment (i) at a convenience store is available only in Japan.)

For the details of payment method, please refer to "How to make the payment for the Application fee at a convenience store, by credit card, Union Pay or Alipay" on page 9 of this guideline. The transfer fee should be covered by the applicant.

(i) Payment at convenience stores
Paste "入学検定料・選考料・取扱明細書 (Certificate of payment of Application fee)" on "『入学検定料・選考料・取扱明細書』貼付用台紙" (Form for submission of the Certificate of payment of Application fee) and submit it with other application documents.

(ii) Payment by credit card
Submit the printed "Result" page with other application documents.

(iii) Payment period: June 10 (Sat), 2023 to July 14 (Fri), 2023

(Note) For questions regarding the procedures, etc. on the e-shiharai site, applicants should check the information on the website (https://e-shiharai.net/Syuno/FAQ.html), "FAQ" or "Common questions", and if you have any further questions, please ask E-service support center directly.

○ Application fee for those who intend to go on to the Doctoral Course of Graduate School of Mathematics from a Master's Course of Kyushu University is as follows.

Those who satisfy one of the following are exempt from application fee.

1. Those who will complete a Master's Course at Kyushu University in September, 2023, and intend to go on to the Doctoral Course of Graduate School of Mathematics.
2. Those who will complete the second year of 5-years doctoral course at Kyushu University obtaining the master's degree in September, 2023, and intend to go on to the Doctoral Course of Graduate School of Mathematics.
3. Those who will complete a professional degree course of a graduate school at Kyushu University in September, 2023, and intend to go on to the Doctoral course of Graduate School of Mathematics.

(Note) If you have any questions, please contact in advance the Student Support Office, Graduate School of Science.

(7) Two photos of the applicant (taken within the past three months), should be attached to the application form.

(8) A self-addressed and stamped (84 yen(344 yen for express delivery)) envelope, for sending the examination card and other documents to the applicant. The envelope is not necessary for those who are students of the Kyushu University and who are not residents in Japan. Applicants who take the Preliminary qualification examination for application are required to submit two envelopes.

(Note) Applicants who take the Preliminary qualification examination for application are required to submit the following documents in addition to the documents above.

a. Research plan: two sets (Write horizontally on A4 size paper using approx. 2,000 characters in Japanese or 1,300 words in English, about the applicant's intended research after entering the Graduate School.)
b. Certificate of research history (prepared by the president or the dean of the educational institution from which the applicant graduated last).

(Notes for preparing documents)

1) Documents must be written either in Japanese or in English. (Documents prepared by word processors are acceptable.)
2) In case any of the documents are written in a language other than Japanese or English, attach Japanese or English translation.

4. Application period: July 10 (Mon) to July 14 (Fri), 2023

5. Application documents should be sent to:

Student Support Office, Graduate School of Science, Kyushu University,

W1-B-306,744 Motooka, Nishi-ku, Fukuoka 819-0395, Japan

(Notes for submitting documents)

1. Write "Application form for Doctoral Course of the Graduate School of Mathematics enclosed" in red on the front of the envelope.
2. The application form and other related documents can be accepted in person at Student Support Office, Graduate School of Science, from 8:30 a.m. to 5:00 p.m. on weekdays, except national holidays. When mailing the documents, use a registered mail and make sure the documents arrive before the deadline.

6. Screening process

Screening is based on submitted documents, and if necessary, examination will be conducted.

(1) Academic ability examinations will be conducted in written or oral form on specialized subjects, foreign languages, and Japanese.

(2) The details of the examination will be announced after the application documents are received.

7. Date of examination

August 17 (Thu), 2023

8. Place of examination

Graduate School of Mathematics, Kyushu University

744 Motooka, Nishi-ku, Fukuoka 819-0395, Japan

(For details, see "Information" enclosed with the examination card.)

9. Announcement of screening result and enrollment procedure

(1) Date and time: August 25 (Fri), 2023, 10:00 a.m.

(2) Method of notification: The results will be posted on the public notice board at the entrance hall of West 1- C-2F in Ito campus, and also surface mailed to all successful applicants. The application ID numbers of successful applicants will also be posted on the website of the Faculty of Mathematics (http://www.math.kyushu-u.ac.jp/) after 10:00 a.m. No direct inquiries about the results (such as by phone or by e-mail) will be accepted.

(3) Procedure for enrollment: See the "Enrollment Procedure Guidelines" enclosed with the acceptance letter.

(4) Admission fee, tuition:

Admission fee: 282,000 yen (to be paid by the end of September, 2023)

Tuition: 267,900 yen (annual total 535,800 yen)

(Note) The amounts above are subject to change without prior notice.

Foreign students under Japanese Government MEXT Scholarship are not required to pay the admission fee or the tuition.

10. Applicants with Disabilities

Kyushu University provides consultation for applicants with disabilities who may require special arrangements during the entrance examinations or in classes after enrollment.

Please contact the Student Support Office of Graduate School of Science prior to the application process as soon as possible as it sometimes takes extra time to decide on the arrangements depending on the situation.

No special arrangements will be made, if there is no contact by June 30 (Fri), 2023.

11. Period-extension System

Kyushu University has introduced the Period-extension system. This system enables those who have disabilities or other difficulties to complete a Doctoral course over a longer period than the regular period. Once an application is approved, the total tuition fee will be the same as that for the regular period. In addition, the application details of this system will be explained in detail upon notification of the entrance formalities.

12. Miscellaneous remarks

(1) Any documents submitted, such as application forms, will not be returned and screening fee will not be reimbursed.
(2) An admission may be cancelled, if there is any wrongdoing or misconduct related to application documents.
(3) For more details about the screening, please contact the address at the bottom of this page.
(4) Any changes due to COVID-19 will be announced via the website of the Faculty of Mathematics. In addition, the school may take separate actions depending on the situation.

○ **Use of Personal Information**

1. Personal information provided for your application will be used exclusively for Kyushu University's screening process and the following purposes:
   (1) The addresses, names, etc. of the successful applicants may be used for enrollment procedures, etc.
   (2) Academic transcripts issued by the previous university will be used for financial support during the first year.
2. Academic records and other personal information used for screening of applicants may be used, in a form in which the individual is unidentifiable, for surveys and research concerning the screening of applicants for the Graduate School of Mathematics.

3. Personal information provided for your application will not be used for any other purposes or provided to a third party without your permission, except in cases stipulated in the Act on the Protection of Personal Information and other related laws.

Student Support Office, Graduate School of Science,
Kyushu University, W1-B-306, 744 Motooka,
Nishi-ku, Fukuoka 819-0395, Japan
Phone (+81)-92-802-4038
Email rixgksien@jimu.kyushu-u.ac.jp

List of faculty of the Graduate School of Mathematics, Kyushu University

Professors (As of October 1, 2023)

Name	Research Keywords
Katsuki FUJISAWA	Optimization Software, Graph Analysis, High-performance Computing
Yasuhide FUKUMOTO**	Fluid Mechanics
Takashi HARA**	Mathematical Physics
Fumio HIROSHIMA	Quantum Field Theory, Operator Theory and Spectral Analysis, Functional Integrations
Kei HIROSE	Computational Statistics, Machine Learning
Yuzuru INAHAMA	Stochastic Analysis, Rough Path Theory
Yutaka ISHII	Dynamical System Theory
Norio IWASE *	Topology, Algebraic Topology, A_∞ structure
Shizuo KAJI	Topology, Algebraic Topology, Applied Topology
Kenji KAJIWARA	Discrete Differential Geometry, Integrable Systems
Joe KAMIMOTO	Complex Analysis, Partial Differential Equations
Naoyuki KAMIYAMA	Discrete Optimization
Masanobu KANEKO***	Number Theory
Shuichi KAWANO	Mathematical Statistics, Statistical Science, Multivariate Analysis, Bayesian Modeling
Daisuke KISHIMOTO	Topology, Algebraic Topology, Combinatorial Algebraic Topology
Shinichi KOBAYASHI	Number Theory
Yasuro GON※	Number Theory
Toshihiko MASUDA	Operator Algebras
Taku MATSUI *	Mathematical Physics
Yoshihiro MIZOGUCHI***	Software Science, Graph Transformation, Theory of Computing
Masanori MORISHITA	Arithmetic Topology
Koji NUIDA	Mathematical Cryptography, Combinatorial Group Theory
Hiroyuki OCHIAI	Algebraic Analysis, Representation Theory, Special Function
Ryoko OISHI-TOMIYASU	Applied Algebra, Lattice, Quadratic Form, Mathematical Crystallography
Osamu SAEKI	Topology, Singularity Theory, Differential Topology, DNA Knots
Hirofumi SASAHIRA	Topology, Gauge Theory, Floer Theory
Jun-ichi SEGATA	Partial Differential Equations, Harmonic Analysis
Tomoyuki SHIRAI	Probability Theory
Toshio SUMI ※	Topology, Transformation Groups
Masato TSUJII	Dynamical Systems, Ergodic Theory
Lin WENG	Algebraic and/or Arithmetic and/or Complex Geometry, Number Theory
Takuzo OKADA	Algebraic Geometry

 *: Those who will retire on the end of March, 2024.   ※: Those who are affiliated with the Faculty of Arts and Science.

 **: Those who will retire on the end of March, 2025.

***: Those who will retire on the end of March, 2026.

Associate Professors　　　　　　　　　　　　　　　　　　　　　（As of October 1, 2023）

Name	Research Keywords
Jan BREZINA ※	Partial Differential Equations, Euler Equations, Navier-Stokes-Fourier Equations
Pierluigi CESANA	PDEs, Calculus of Variations, Gamma-convergence, Materials Science
Daniel GAINA	Mathematical logic, Formal methods, Category Theory, Term Rewriting Systems
Kazuhiro HIKAMI	Mathematical Physics
Takuya KONNO	Number Theory, Arithmetic Theory of Automorphic Forms
Kaname MATSUE	Dynamical Systems, Numerical Analysis, Rigorous Numerics, Differential Equations, Combustion Theory
Yosuke MORITA	Lie groups and homogeneous spaces, differential geometry, homotopy theory
Dinh Hoa NGUYEN◇	Applied Mathematics for Energy, Artificial Intelligence, Optimization, Learning and Control
Shunsaku NII	Dynamical Systems
Yukio OTSU	Differential Geometry
Yuichi IKE	Topological data analysis, microlocal sheaf theory
Shingo SAITO ※	Classical Real Analysis, Multiple Zeta Values, Actuarial Science
Shota SAKAMOTO	Partial differential equations, Kinetic theory of gases, Boltzmann equation
Daisuke SAKURAI○	High-Performance Computing, Visualization, Topological Data Analysis
Yasuhiko SATO	Operator Algebras, Non-commutative geometry
Daisuke TAGAMI	Numerical Analysis
Yuichiro TAKEDA	Algebraic Geometry, Topology
Atsushi TERO	Mathematical Model
Koji TSUKUDA	Mathematical Statistics, Discrete Statistical Model, Regression Analysis, Statistical Quality Control
Kenkichi TSUNODA	Probability Theory, Interacting Particle System, Hydrodynamic Limit, Random Topology
Mitsunobu TSUTAYA	Topology, Algebraic Topology, Higher Homotopy Structure
Hayato WAKI	Continuous Optimization, Optimization Software
Hiroshi YOSHIDA	Mathematical Biology on Regeneration

※: Those who are affiliated with the Faculty of Arts and Science.

○: Those who are affiliated with the Research Institute for Information Technology.

◇: Those who are affiliated with International Institute for Carbon-Neutral Energy Research.

KYUSHU UNIVERSITY
How to make the Payment for the Application Fee by Credit Card, Union Pay.

24 hours a day, 365 days a year, you can pay anytime! Easy, Convenient and Simple!

You can pay the Application Fee by using Credit Card, Union Pay.

VISA　mastercard　JCB　AMERICAN EXPRESS　UnionPay 银联

Access

https://e-shiharai.net/english/

Online Transaction

1.	**Top Page**	Click "Examination Fee".
2.	Terms of Use and Personal Information Management	Please read the Terms of use and Personal Information Management. Click "Agree" button located in the lower part of this page if you agree with these terms. Click "Not agree" button located in lower part of this page if you do not agree with these terms.
3.	**School Selection**	Select "Kyushu University (Undergraduate Schools) " or "Kyushu University (Graduate Schools)."
4.	**School Information**	Read the information carefully and click "Next".
5.	**Category Selection**	Choose First to Fourth Selection and add to Basket.
6.	**Basket Contents**	Check the contents and if it is OK, click "Next".
7.	**Basic Information**	Input the applicant's basic information. Choose your credit card and click "Next".

Paying at Credit Card

Input Credit Card Number (15 or 16-digits) , Security Code and Expiration date.

↓

All of your application information is displayed. Check and Click "Confirm".

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Click "Print this page" button and print out "Result" page.
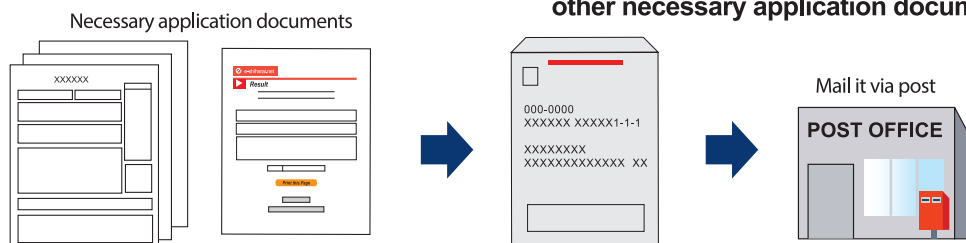
Paying at Union Pay

Follow the onscreen instructions to complete the card payment.

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Please click the "Application Results" button in the upper part of this site (e-shiharai.net).
↓
Please write down the "Receipt Number" given when you complete your application, and enter your "Payment Method", "Receipt Number" and "Birth Date". Please make sure your printer is ready.

Please print out the "Payment Inquiry - Inquiry result" page.

Application

Enclose the printed "Result" page in an application envelope with other necessary application documents.

Necessary application documents

XXXXXX

Result

Print this Page

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Mail it via post

POST OFFICE

[NOTICE/FAQ]

- You can make a payment anytime, during the payment period mentioned in the application instructions.
  Please refer to the application instructions and complete payment in time.
- Please complete payment by 11:00 pm Japan time, on the last date of the payment period.
- Please note that refund is not possible once you have made a payment of Application fee.

- A fee is added to Examination fee. For further info, please visit our website.
- It is possible to use a card which carries a name different from that of the applicant. However, please make sure that the information on the basic information page is that of the applicant him/he-self.
- If you did not print out "Result" page, you can check it later on Application Result page. Please enter "Receipt Number" and "Birth Date" to redisplay.
- Please directly contact the credit card company if your card is not accepted.

For questions or problems not mentioned here, please contact:

E-Service Support Center　Tel : +81-3-5952-9052 (24 hours everyday)