

Nagoya University
Interdisciplinary Frontier Fellowship
Application Guidelines (New Recruitment)

○ Qualified Enrollment Year

AY2023 (2nd Recruitment)

Doctoral Course	Scheduled entrants in April 2023 Scheduled entrants in October 2023
Doctoral Course in Medicine	Scheduled second-year student in April 2023 Scheduled second-year student in October 2023

AY2024 (1st Recruitment)

Doctoral Course	Scheduled entrants in April 2024
Doctoral Course in Medicine	Scheduled second-year student in April 2024

*For details other than the above, refer to 4. Application Qualifications.

January 2023

Nagoya University Interdisciplinary Frontier Fellowship
Application Guidelines (New Recruitment)
【AY2023 (2nd Recruitment)/ AY2024 (1st Recruitment)】

1. Purpose

Nagoya University (hereinafter referred to as “the University”) aims to foster doctoral human resources who can **advance the interdisciplinary frontier, create future knowledge, implement it in society, and play an active role globally.**

The Nagoya University Interdisciplinary Frontier Fellowship (hereinafter referred to as “the Fellowship”) is an academic system designed **to support both the research and the livelihood** of students who enroll in the doctoral program of the University in the hope that they will acquire considerable knowledge and outstanding abilities during the three years of the doctorate program and will demonstrate their wide-ranging faculties cultivated through their experience in various fields in society after obtaining their doctoral degree.

Through this system, the University expects that successful doctoral graduates will contribute to the continued deepening of science and technology in Japan, the creation of next-generation science, technology, and innovation, and the construction of a vibrant society. The University Fellowship Establishment Project for the Creation of Science and Technology Innovation of JST and Nagoya University jointly implement this system. The contents of the Fellowship may be subject to change due to changes in JST’s program.

2. Fields Open to Applications (Four (4) fields)

There are four fields. Each field has its own vision for the human resources it wishes to develop (See Appendix Table 1)

I: Creating the Future of Asia, II: Information and AI, III: Quantum Science, IV: Materials

Points to Note

- When applying, you can select up to your third choice.

3. Number of applicants to be accepted

	AY2023 (2nd Recruitment)	AY2024 (1st Recruitment)
Creating the Future of Asia	Approximately 15	Approximately 13
Information and AI	Approximately 15	Approximately 13
Quantum Science	Approximately 10	Approximately 6
Materials	Approximately 10	Approximately 7

* The number of applicants to be accepted in each field is a rough estimate.

4. Application Qualifications

Applicants to the Fellowship must be persons who meet (1) – (3) below (including international students).

< For AY2023 2nd Recruitment >

- Doctoral Course—Expected to enroll in April or October 2023**
- Doctoral Course in Medicine—Scheduled second-year student in April or October 2023**

< For AY2024 1st Recruitment >

- Doctoral Course—Expected to enroll in April 2024**
- Doctoral Course in Medicine—Scheduled second-year student in April 2024**

(1) Enrollment Required

- For AY2023 2nd Recruitment

Those who wish to enter Nagoya University’s Doctoral Course or Doctoral Course in Medicine and who enter the Doctoral Course (or second year of the Doctoral Course in Medicine) in April or October 2023

- For AY2024 1st Recruitment

Individuals who wish to enroll Nagoya University’s Doctoral Course or Doctoral Course in Medicine and who enrolled in the Doctoral Course (or second year of the Doctoral Course in Medicine) in April 2024

(2) An individual who does not fall under any of the following at the time of admission to the Doctoral Course (or second year in the case of the Doctoral Course in Medicine)

- (i) A student who is deemed to be receiving stable income from their university or company, such as a salary or executive remuneration, at a level sufficient to cover living

expenses (approximately 2.4 million yen/year)

- (ii) International student receiving the Monbukagakusho Scholarship
- (iii) International student receiving scholarships from their home country
- (iv) An individual in the Japan Society for the Promotion of Science's Research Fellowship for Young Scientists

*If you are offered a position in a project (2) to (4) above, you must withdraw from this Fellowship (The Nagoya University Interdisciplinary Frontier Fellowship).

- (3) An individual who has not applied for the THERS Interdisciplinary Frontier Next Generation Researcher (AY2023 2nd Recruitment or AY2024 1st Recruitment)

Points to Note

- If you plan to receive support from another organizations during the support period of the Program, check with the office of the scholarship or the academic affairs officer of the graduate school to which you belong whether or not you can receive both.
- This recruitment is related to the Fellowship, and in order to receive the support from the Fellowship and enroll in Nagoya University, you must pass the entrance examination separately conducted by each graduate school.
- If you do not enroll or advance to the Doctoral Course (or advance to the 2nd year in the Doctoral Course in Medicine) at the time you selected when you input application information registration, qualification to receive the support under the Program will be disqualified.

5. Fellowship Grant (hereinafter referred to as the "Grant")

Fellows receive the following financial grants:

- (1) Research support grant: ¥180,000 per month

In principle, the grant is transferred to the individual's account by the end of each month. As this income is classified as miscellaneous income, a tax return* is required every year.

* International students may not be required to file a tax return by following tax treaty procedures.

- (2) Research expenses ¥250,000 annually

The University manages research expenses. Expenditures will be made in accordance with the University's accounting procedures and each Fellow's research plan.

*The University may increase the amount of both (1) the research support grant and (2) research expenses if the recipient is selected as an Excellent Fellow/Researcher based on

the results of Annual Activity Evaluation, etc. conducted in the 1st or 2nd year of the Doctoral Course (or a year higher for the Doctor of Medicine Course student.)

Note 1: Annual Activity Evaluation (Doctoral Course Year 1: Review of Potential to complete the standard term of study, planning status of international joint research and interdisciplinary research, and confirmation of at least IELTS 5.5 or equivalent)

Note 2: Annual Activity Evaluation 2 (Doctoral Course Year 2: Review of Potential to complete the standard term of study, implementation status of international joint research and interdisciplinary research, and confirmation of at least IELTS 6.0 or equivalent (International students are required to pass at least Japanese Language Proficiency Test N2 or equivalent in addition to holding English proficiency))

6. Pay period

The research immersion support period is three years maximum. (However, the payment period may be shortened if the payment suspension/stoppage requirement is met.)

7. Application documents

- (1) Nagoya University Interdisciplinary Frontier Fellowship Application (Form 1)
- (2) Research Outline (Form 2)
- (3) Academic Advisor Evaluation (Form 3)
- (4) Application Outline Video (For details, see the attached “About Creating a Video”)

8. Application process

For details, refer to separate Nagoya University interdisciplinary Frontier Fellowship/ THERS Interdisciplinary Frontier Next Generation Researcher Application Guidelines to check how to apply.

Application Information Registration Period: from January 23 (Mon) to 14:00, February 6 (Mon) 2023

Upload Application Document Period: from February 2 (Thu) to 14:00, February 14 (Tue) 2023

9. Screening and results

(1) Screening

We will conduct a 1st screening (document and video screening) and a 2nd screening (interview screening). However, depending on their 1st screening results, some applicants who pass the 1st screening may be exempted from the 2nd screening and be accepted based only on the 1st screening. The 2nd screening (interview screening) is conducted for those who pass the 1st screening (document and video screening), except

for those who are exempted from the 2nd screening.

The screening will basically be conducted based on your first choice field, although this may be changed to your second or third choice field, depending on the state of applications.

Points to Note

- The 2nd screening (interview screening) will be conducted on the following dates and times. Note that we cannot accept any requests for a specific date and time.
- Interviewees will be notified in the same manner as in “(3) Notification of results”, “Notification methods”.

Interview screening dates:

Field	Interview Dates
Creating the Future of Asia	Thursday, March 23 AM
Information/AI	Wednesday, March 29 AM
Quantum Science	Tuesday, March 28 PM
Materials	Friday, March 31 AM

- Applicants will be notified about 2-3 days prior to the interview date.
- Conducted online

(2) Screening policy

Evaluation items are as follows and will be evaluated based on individual factors. Refer to the Attached Table 1 for the Screening criteria for each field.

- Applicants have the ability to conduct joint research with leading research institutions and companies, including those overseas, or to conduct challenging research in interdisciplinary research areas.
- Applicants must be sufficiently expected to become capable doctoral human resources in the future.
- Applicants must bring unique research methods, and research targets must be set appropriately within the standard period of study.
- Applicants must be clearly aware of their career path after obtaining their doctorate and demonstrate the ability to cultivate the capabilities needed over the standard period of

study.

(v) Standard to be set in each field

(3) Notification of results

Successful candidates will be notified as follows. Only successful candidates will be notified.

Notification of results: Thursday, April 13
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Notification methods

Notification via the email address registered at the time of application.

10. Obligations of Fellows

As recipients of financial grants, Fellows are subject to the following obligations.

- (1) Submission of a report on research for the year and a research activity plan for the following year and thereafter.
- (2) Interview with academic advisor, mentor or career counselor.
- (3) Application to the Japan Society for the Promotion of Science's Research Fellowship for Young Scientists
- (4) Undergo evaluation of activities each year.
- (5) Participation in lectures, training, seminars, etc. certified by subject fields (See Appendix Table 1)
- (6) Training on the use of public funds and participation in research ethics education designated by the University.
- (7) Registration of data on the implementation status of obligations in designated systems.
- (8) Cooperation with inquiries after the fellowship period.
- (9) Other matters required by the University.

11. Suspension of grant payments

Grant payments will be suspended if any of the following apply.

- (1) Withdrawal, expulsion, or transfer from the University.
- (2) Suspension from the University.
- (3) Poor academic performance.
- (4) Failure to report research results for each year.

- (5) Existence of a reason research grant payments are deemed no longer necessary
- (6) Application qualification (3) (i) - (iv) is met
- (7) Existence of facts other than (1) - (6) that are inappropriate for a recipient

12. Returning grant funds

If there are grant funds that were received despite the individual being ineligible due to the suspension or stoppage of payment, the portion of the funds that were paid that the individual is not eligible to receive must be returned to the University.

13. Obligation regarding cooperation with inquiries after the fellowship period

This system is operated with assistance from the Ministry of Education, Culture, Sports, Science and Technology's University Fellowship Establishment Project for the Creation of Science and Technology Innovation. Therefore, surveys may be conducted on participants' current employment status and so on in the 10 years following the end of this program.

Previous participants may be contacted even after the fellowship period has ended. If your address, place of employment, email address, and so on has changed, be sure to contact the University's point of contact (Doctoral Education Consortium).

Inquiries regarding the Interdisciplinary Frontier Fellowship
Education Planning Division, Education & International Affairs Department
Doctoral Education Consortium

Inquiry Form

<https://dec.nagoya-u.ac.jp/inquiry/top>



Attached Table 1

	Creating the Future of Asia		Information and AI		Quantum Science		Materials		
The objectives of this fellowship and image of researchers to be fostered	The fellowship will foster doctoral experts who will create future knowledge, implement it in society, and play an active role globally. This fellowship will provide opportunities and programs related to research and education in the interdisciplinary frontier with students who aim to coexist with Asian countries, contribute to SDGs, and build a prosperous and vibrant society.		The fellowship will foster doctoral experts in the Information and AI field who will create future knowledge, implement it in society, and play an active role globally. These experts will support, lead, and advance mobility field and medical fields of basic medicine, drug discovery, medical care, and precision prevention medicine. The experts will also contribute to a wide range of fields including humanity and social science, physics, mathematical sciences, and agriculture.		The fellowship will foster capable doctoral experts in the Quantum Science field who will play an active role globally. These experts will develop academic research that integrates a broad range of research levels, from mathematics and science that form the theoretical basis of quantum science to the application of quantum devices using semiconductors.		The fellowship will foster doctoral experts in the Materials field who will be the driving force of material innovation in Japan. These experts will acquire research skills to produce innovative products from a comprehensive perspective covering basic theory and application. They will develop an interdisciplinary frontier of materials science with other disciplines such as electrical and electronic engineering, machinery engineering, information, energy, biology, medicine, and agriculture.		
Screening criteria	(1) Applicants must understand the purpose of the fellowship program, proactively participate in the program, and be willing to interact with students and researchers from other fields. (2) Applicants must be sufficiently expected to become capable doctoral human resources in the future. (3) Applicants must bring unique research methods and research topics must be set appropriately for three years. (4) Applicants must be clearly aware of their career path after obtaining their doctorate and demonstrate the ability to cultivate the capabilities needed over the three years.				(5) Applicants should intend to participate in academic research that integrates a wide range of levels from basic physics to applied research in the field of quantum science. It is preferred that applicants have experience in the above activities or have participated in related programs.		(5) Applicants should be prepared to participate in academic research that integrates a broad range of research levels, from the basic theory that forms the basis of quantum science to applied research. Applicants should propose an interdisciplinary research project. This fellowship field prefers applicants who have experience related to the research described above or have attended related programs. Interdisciplinary research is highly valued in this program.		
	(5) Applicants should be interested in interdisciplinary frontier research and be concerned with Asia-related development such as coexistence with Asian countries.		(5) Applicants should propose and implement research projects that use information and AI technology. The research fields include fields of basic medicine, pharmaceutical science, medical care, and precision prevention medicine. Humanity and social science, physics, mathematical sciences, and agriculture are additional applicable research fields.						
Lectures, training, seminars, etc. common to all fields [Required]	[1] Annual Activity Evaluations [Screening items: Degree completion within the standard period of study/Interdisciplinary research & international joint research/Language ability] [2] University-sponsored research presentation meeting with invited visitors from outside corporations, etc. (Participation more than once during D1 and D2 years.) [4] *Interdisciplinary [3] Interaction with mentors etc for career development. (Details will be announced later.) *For a four-year doctoral course, the year listed is one year higher. [1] University-sponsored research presentation meeting with invited visitors from outside corporations, etc. (Participation more than once during D1 and D2 years.)								
Lectures, training, seminars, etc., in the subject field [Required]			[1] A course on programming offered by a graduate school or WISE program		[1] University-sponsored research presentations that create cross-departmental collaborative research				
Lectures, training, seminars, etc. approved by the subject field [Required elective] (Fellow point*: FP)	Creating the Future of Asia		Information and AI		Quantum Science		Materials		
	*Students must select one of the following options and obtain at least 30 FPs while enrolled in a graduate school (by the end of the fellowship). Maximum FP: While students may obtain more FP points than the maximum FP, only the maximum FP will be counted as the total FP.		*Students must select one of the following options and obtain at least 30 FPs while enrolled in a graduate school (by the end of the fellowship). Maximum FP: While students may obtain more FP points than the maximum FP, only the maximum FP will be counted as the total FP.		*Students must select one of the following options and obtain at least 30 FPs while enrolled in a graduate school (by the end of the fellowship). Maximum FP: While students may obtain more FP points than the maximum FP, only the maximum FP will be counted as the total FP.		*Students must select one of the following options and obtain at least 30 FPs while enrolled in a graduate school (by the end of the fellowship). Maximum FP: While students may obtain more FP points than the maximum FP, only the maximum FP will be counted as the total FP.		
	Seminars, etc.	[1] Participation in transferable skills training, language training, career path seminars, interdisciplinary research seminars, graduate student planning seminars, etc.	8FP	[1] Participation in transferable skills training, language training, career path seminars, interdisciplinary research seminars, graduate student planning seminars, etc.	8FP	[1] Participation in transferable skills training, language training, career path seminars, interdisciplinary research seminars, graduate student planning seminars, etc.	8FP	[1] Participation in transferable skills training, language training, career path seminars, interdisciplinary research seminars, graduate student planning seminars, etc.	9FP
	Internships	[2] Internships (internships at companies, international organizations, research institutes, etc., in Japan and overseas)	24FP	[2] Internships (internships at companies, international organizations, research institutes, etc., in Japan and overseas)	24FP	[2] Internships (internships at companies, international organizations, research institutes, etc., in Japan and overseas)	24FP	[2] Internships (internships at companies, international organizations, research institutes, etc., in Japan and overseas)	24FP
	Study abroad, etc.	[3] Research programs abroad (training and short-term study abroad)	16FP	[3] Research programs abroad (training and short-term study abroad)	8FP	[3] Research programs abroad (training and short-term study abroad)	12FP	[3] Research programs abroad (training and short-term study abroad)	12FP
	Research presentations, awards, etc.	[4] Presentations at international conferences and symposiums	14FP	[4] Presentations at international conferences and symposiums Publication in international journals	6FP	[4] Presentations at international conferences and symposiums	6FP	[4] Presentations at international conferences and symposiums Awarded research prizes	6FP
	Student team experiences	[5] Student team projects (graduate student seminar planning, entrepreneurship experiences, participation in business contests, etc.)	8FP	[5] Student team projects (graduate student seminar planning, entrepreneurship experiences, participation in business contests, etc.)	8FP	[5] Student team projects (graduate student seminar planning, entrepreneurship experiences, participation in business contests, etc.)	8FP	[5] Student team projects (graduate student seminar planning, entrepreneurship experiences, participation in business contests, etc.)	8FP
	Joint research, interdisciplinary research, etc.	[6] Joint research and interdisciplinary research (joint application for research funding), participation in industry-academia collaborative courses and designated joint research (conducted in consultation with academic advisors)	24FP	[6] Joint research and interdisciplinary research (joint application for research funding), participation in industry-academia collaborative courses and designated joint research (conducted in consultation with academic advisors)	24FP	[6] Joint research and interdisciplinary research (joint application for research funding), participation in industry-academia collaborative courses and designated joint research (conducted in consultation with academic advisors)	24FP	[6] Joint research and interdisciplinary research (joint application for research funding), participation in industry-academia collaborative courses and designated joint research (conducted in consultation with academic advisors)	24FP
	Participation in short-term workshops (training retreats, etc.)	[7] Participation in short-term workshops on identifying social issues, interdisciplinary training, etc.	8FP	[7] Participation in short-term workshops on identifying social issues, interdisciplinary training, etc.	8FP	[7] Participation in short-term workshops on identifying social issues, interdisciplinary training, etc.	12FP	[7] Participation in short-term workshops on identifying social issues, interdisciplinary training, etc.	12FP
Activities organized by DEC	[8] DEC's hands-on activities (seminars by DEC are not included in this category.)	10FP	[8] DEC's hands-on activities (seminars by DEC are not included in this category.)	10FP	[8] DEC's hands-on activities (seminars by DEC are not included in this category.)	10FP	[8] DEC's hands-on activities (seminars by DEC are not included in this category.)	10FP	