

AY 2022
University Fellowship Founding Project
for Innovation Creation in Science and Technology

Nambu-Einstein Fellowship Program

Fellowship Program to Foster
International Ph.D.-Holding Researchers
through Materials Innovations

Fellowship Student Application Guidelines

Three-Year Doctoral Course D1 Students

Four-Year Doctoral Course D2 Students

<Additional Recruitment>

Osaka City University, Osaka Prefecture University
Fellowship Support Office

*Contents assume that the budget for academic year 2022 will be met; however, since the budget for the project has not yet been determined, the contents related to support are subject to change.

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Schedule for application and selection

Application period: Forms application period

Fri. March 11, 2022 – Mon. March 21, 2022, 12:00.(JST)

Essay and Photo submission period

Fri. March 11, 2022 – Mon. March 21, 2022, 13:00.(JST)

Interview: One of the following days: Wed. March 23, 2022 – Sat. March 26, 2022,

Announcement of Acceptance: Thu. March 31, 2022

I. Nanbu-Einstein Fellowship

1. Our Ideal Image of Researcher

Our target with this project is to foster high-level researchers who can cooperate with others to create completely novel values “paradigm shifts”—unbound by conventional concepts—based on a foundation of comprehensive viewpoints and free thinking. To this end, these researchers will be educated in a wide range of scientific and technological disciplines, while simultaneously being exposed to a diverse range of perspectives and value systems. The fellowship will be provided to eligible doctoral-course students. In addition to supporting their research activities, we will also provide programs to improve their research capabilities and support their career paths.

2. Obligations of Eligible Students

Fellowship students shall have the following obligations:

- Participation in (every year) and presentation (once during this course) at the fellowship plenary seminar
- Participation in seminar camp or cross-disciplinary research proposal meetings (every year) and research presentations (once during this course)
- Participation in international conferences and lectures (once during this course, conferences held in Japan is acceptable)
- Obtaining credits from specific graduate courses (Advanced Technology and Science in Chemical industry, or Advanced Lecture on Global Management)
- Participation in (every year) and presentation (once during this course) at exchange meetings with private companies
- Individual meetings with mentors (twice a year)
- Application to the Japan Society for the Promotion of Science DC (every year)
- Evaluation of achievement and progress reports on research goals (twice a year)

3. Program Features

(1) Programs to improve research capabilities and support career paths

- Provision of lectures to support the improvement of research capabilities
- Support for research study at domestic and overseas research institutions
- Improvement of research capabilities and provision of a research environment through interdisciplinary and cross-disciplinary collaboration with researchers within the university
- Introduction of multiple supervisory scheme through a mentor system

(2) Programs to secure career paths

- Conducting long-term internships
- Development scheme to assistant professor
- Conducting Interactive Matching event with related companies
- Support for research study at domestic and overseas research institutions

II Fellowship Program to Foster International Ph.D.- Holding Researchers through Materials Innovations

1. Our Ideal Image of Researcher

This program aims to foster doctoral researchers through "Materials Innovations" based on nanoscience in the material research field for highly demanded energy and healthcare area, who have a fundamental scientific and technical background, advanced subject-matter expertise, superior creativity, and a global outlook as researchers and lead future science and technologies.

2. Obligations of Eligible Students

The fellowship student shall have the following obligations:

- Obtaining a certain number of credits from common education courses at graduate school.
- Participation in a long-term internship
- Portfolio management for required skill items
- Evaluation of achievement and progress reports on research goals (twice a year)

3. Program Features

(1) Programs to improve research capabilities and support career paths

- Providing lectures to support the improvement of research capabilities
- Overseas associate supervisor system
- Providing programs to improve research capabilities and a research environment through disciplinary and cross-disciplinary collaboration with researchers within the university
- Introduction of multiple supervisor scheme through a mentor system

(2) Programs to secure career paths

- Conducting long-term internships
- Development scheme to assistant professor
- Conducting Interactive Matching event with related companies

III Common Items to All Programs

4. Application Requirements

Applicants must have excellent research abilities and meet the following requirements to ensure successful execution of this project:

Graduate Schools and Majors listed in Table 1-1, Table 1-2, and Table 1-3 (Three-Year Doctoral Course).

- (1) Persons admitted in October 2021 to the graduate schools and majors listed in Table 1-2 and Table 1-3, who are enrolled as of April 1, 2022, and not on a leave of absence.
- (2) Persons who have applied for admission to the graduate schools and majors listed in Table 1-1 as prospective students for April 2022.
- (3) Applicants who plan to apply in October 2022 for admission to the graduate schools and majors listed in Table 1-1.

Graduate Schools and Majors listed in Table 2 (Four-Year Doctoral Course<Graduate School of Medicine or Department of Veterinary Science>)

- (4) Persons who were admitted in October 2020 or April 2021, who are enrolled as of April 1, 2022, and not on a leave of absence.
- (5) Students who were enrolled in October 2021, who are enrolled as of April 1, 2022, and not on a leave of absence.

However, the following are excluded:

- Students who have been selected as a Research Fellowship for Young Scientists (DC) of the Japan Society for the Promotion of Science (JSPS)
- Foreign students supported by the Japanese Government (Japanese Ministry of Education, Culture, Sports, Science, and Technology [MEXT]) Scholarship Program
- International students who receive scholarships and/or other support from their home country
- Working students who have been receiving a sufficient amount of money as living expenses (2.4 million yen / year as a reference) from the company to which they belong.
- Those who are receiving support from the Support for Pioneering Research Initiated by the Next Generation program

* Even if you meet these requirements above, you may not be eligible in case you have taken a leave of absence after enrollment of the doctoral course. Please check individually with the Support Office if it is the case.

Precautions

- Other financial supports from such as scholarships of JASSO and various foundations

Since this program is targeting to "create an environment where students can concentrate on their research" and JASSO scholarships has the different nature, you may basically receive the support from this program and either of loan-type or benefit-type scholarships at the same time. However, JASSO may not allow you to receive scholarships at the same time. Please make sure to check with JASSO as well.

Regarding scholarships from various foundations, those foundations may not allow you to receive scholarships together with this project. Please make sure to check with the foundations.

- Second choice

In addition to your first choice of the program, you may further apply for second choice in a different field of fellowship programs as long as you are eligible to apply. Your second choice cannot be the same as your first choice. If you are not selected for your first choice, such further application is considered only if the field of your second choice has not been filled.

Table 1-1

Osaka Metropolitan University Graduate School/Department/Major		Quantum Science	Material
Sustainable System Sciences	Sustainable System Sciences	×	×
Literature and Human Sciences	Philosophy and History	×	×
	Human Behavioral Sciences	×	×
	Language and Culture	×	×
	Cultural Management	×	×
Law	Law and Political Science	×	×
Economics	Economics	×	×
Business	Global Business	×	×
Urban Management	Urban Management	×	×
Informatics	Core Informatics	○	○
	Interdisciplinary	×	○
Science	Mathematics	○	○
	Physics	○	○
	Chemistry	○	○
	Biology	○	○
	Geosciences	○	○
	Biological Chemistry	○	○
Engineering	Aerospace and Marine-System Engineering	×	○
	Mechanical Engineering	×	○
	Urban Engineering	×	×
	Physics and Electronics	○	○
	Electrical and Electronic Engineering	×	○
	Science and Engineering for Materials, Chemistry, and Biology	○	○
	Quantum and Radiation Engineering	○	○
Agriculture	Applied Biological Chemistry	×	○
	Agricultural Biology	×	○
	Environmental Sciences	×	○
Rehabilitation Science	Rehabilitation Science	×	×
Nursing	Nursing	×	×
Human Life and Ecology	Human Life and Ecology	×	×

Table 1-2

Osaka Prefecture University (OPU) Graduate School/Department/Major		Quantum Science	Material
Engineering	Mechanical Engineering	×	○
	Aerospace and Marine-System Engineering	×	○
	Electronics, Mathematics, and Physics	○	○
	Electrical Engineering and Information Science/ Electrical Engineering Area	×	○
	Electrical Engineering and Information Science/ Information Science Area	○	○
	Materials Science and Engineering	○	○
	Quantum and Radiation Engineering	○	○
Life and Environmental Sciences	Applied Life Science	×	○
	Environmental Sciences and Technology	×	○
Science	Mathematical Sciences	○	○
	Physical Science (Geoscience)	○	○
	Physical Science (Non-Geoscience)	○	○
	Chemistry	○	○
	Biological Science	○	○
Humanities and Sustainable System Sciences	Humanities and Sustainable System Sciences	×	×

Table 1-3

Osaka City University Graduate School/Department/Major		Quantum Science	Material
Science	Mathematics and Physics/ Mathematics	○	○
	Mathematics and Physics/ Physics	○	○
	Molecular Materials Science	○	○
	Biology and Geosciences/ Biology	○	○
	Biology and Geosciences/ Geosciences	○	○
Engineering	Mechanical and Physical Engineering	×	○
	Physical Electronics and Informatics/ Informatics	○	○
	Physical Electronics and Informatics/ Physical Electronics	○	○
	Applied Chemistry and Bioengineering	○	○
	Urban Engineering	×	×

Table 2

Graduate School/Department		Quantum Science	Material
OPU/ Life and Environmental Sciences	Veterinary Science	×	○
OCU/ Medicine	Basic Medical Science	×	○
	Clinical Medical Science	×	○

5. Number of Students to be Accepted (capacity)

Name of Program	Number of Students to be Accepted	
	(1) and (2) listed in “4. Application Requirements”	(3), (4), and (5) listed in “4. Application Requirements”
Quantum Science	5 students	-
Materials	8 students	

6. Application Documents

(1) Where to apply:

Please visit <https://forms.office.com/r/6A7mGtdRRL> and submit the required information by 12:00 JST on the last day of the application period. After you have submitted them, you will

receive an email on the address that you have entered. Please submit the following two files as attachments in reply to that email by 13:00 JST on the last day of the application period. Please encrypt the two files and send the password for decryption in a separate email. Once you submit these two files within the application period, your application will be completed.

* The above form has many fields and may take longer time than expected to complete. Please fill out the form well in advance so that you do not miss the deadline.

Please note that only the last completed form will be valid if you fill out the above form multiple times during the application period.

(2) Files

1. Essay using Form 1 (attached)

Please name the file "Student ID Number_Name.pdf" (in .pdf format only).

2. Face Photo (above shoulders) (jpg, bmp, png format).

Please name the file "Student ID Number_name.jpg" (or bmp, png).

If you belong to another university at the time of application, you do not need to enter your student ID number.

Form 1 can be downloaded from <http://fellowship-program.osakafu-u.ac.jp>.

Notes for special caution

- (1) Incomplete application documents will not be accepted.
- (2) Documents submitted at the time of application will not be returned.
- (3) No revisions of documents are allowed after the application procedure has been completed.
- (4) If it is confirmed that the information entered in the application form, or the information contained in the submitted documents, is not true, the applicant's eligibility to participate in this project may be revoked.
- (5) Personal information provided by applicants will be used only for the purpose of selection.
- (6) No application fee is required for the selection process.

7. Selection Method

(1) Examination contents

Subjects for examination	Scoring	Outline etc.
Short essay	100 points	To be prepared in accordance with Form 1.
Interview	100 points	This will be conducted online. You will have 7 minutes at the beginning to present your essay (using Power Point slides allowed), followed by a 13-minute question-and-answer session.

- (2) Evaluation method: Evaluation (scoring) will be performed in accordance with the results of the

essay and interview. Scoring will be based on the Rubric Evaluation Table.

Note:

Those who have taken the examination for this program in February or March 2022 can skip this examination process by adapting the points you earned at the previous one. If you wish to do so, please select “Yes” for the Q23 on the application form.

8. Date and Place of Interview

After the application documents are received, the date and time will be designated sometime between March 23 (Wednesday) and March 26 (Saturday), 2022.

If, during the abovementioned time periods, you are unable to attend an interview for legitimate reasons such as presentations at academic conferences, please specify your unavailability for the interview with the reason in the designated column of the application form (you may be asked to submit documentation to verify the reason later). However, this does not guarantee that the interview will be held at a time other than the specified time slot.

The interview will take approximately 25 minutes.

We will inform you of the date and time of the interview and the URL for the Zoom meeting by Tuesday, March 22. If you do not hear from us by 4:30 p.m. on Tuesday, March 22, please contact us by 5:00 p.m. on the same day at the e-mail address listed in “12. Contact for Inquiries.”

Notes:

- (1) In the event that an interview cannot be conducted as scheduled due to a natural disaster, etc., an “emergency notice” will be sent out via e-mail, so please check.
- (2) Emergency contact information on the day of the interview is the same as in “12. Contact for Inquiries.”

9. Schedule

(1) Application Period

Friday, March 11, 2022 – Monday, March 21, 2022, 12:00

Essay and Photo submission period

Friday, March 11, 2022 – Monday, March 21, 2022, 13:00

(2) Notification of Interview Date and time

Notification to be sent by Tuesday, March 22, 2022, 16:30 to the e-mail address provided on the application form

(3) Interview

Wednesday, March 23, 2022 – Saturday, March 26, 2022 between 9:00 and 17:05. The interview will take approximately 25 minutes.

(4) Announcement of Acceptance

Thursday, March 31, 2022: Successful applicants will be notified at the e-mail address that you provided on your application form.

We will not respond to any inquiries regarding acceptance or rejection by phone.

10. Program Start Date and Eligibility

(1), (2), and (4) listed in “4. Application Requirements”

1. Program start date: April 1, 2022 (Friday)
2. Eligibility: Applicants who have passed this selection process and are admitted to and enrolled in the major listed in "4. Application Requirements" as of April 1, 2022.

(3) and (5) listed in “4. Application Requirements”

1. Program start date: October 1, 2022 (Saturday)
2. Eligibility: Applicants who have passed this selection process and are admitted to and enrolled in the major listed in "4. Application Requirements " as of October 1, 2022.

Note:

Supports may be terminated if you take a leave of absence during the support period depending on the reasons.

11. Fellowship Payment

Students who are eligible for this program can apply for a fellowship (2.3 million yen per year [of this, 1.8 million yen is for research dedication support fee]).

This research dedication support fee is treated as miscellaneous income at tax treatment. The procedures for taxes, social insurance, pensions, etc., related to the receipt of the research dedication support fee will be explained after the announcement of acceptance.

12. Contact for Inquiries

Please contact us via e-mail and include the email addresses of both universities.

Please note that to avoid any discrepancies in the information shared by the Support Offices, inquiries will be accepted only by email. We thank you in advance for your understanding.

University Fellowship Program Support Office

<Osaka City University>

Email: kensi-fellowship@list.osaka-cu.ac.jp

<Osaka Prefecture University>

Email: fellow-opu@ao.osakafu-u.ac.jp

(Form 1)

University Fellowship Founding Project for Innovation Creation in Science and Technology

Nanbu-Einstein Fellowship Program

Fellowship Program to Foster International Ph.D. Holding Researchers through Materials Innovations

Essay Form

	Examinee's number	(Do not fill in)
Name	Date of Birth YYYY/MM/DD	
<p><u>Essay Assignment</u></p> <p>Understand the ideal researcher characteristics of the fellowship program (Quantum and Materials) that you are applying for, and write an essay of <u>about 1500 characters in Japanese or 750 to 800 words in English</u>, which includes the following information:</p> <p>(1) Describe the purpose of your research (academic background, specific objectives, features, original points, etc.) and your plan (specific research content and methods to achieve the research goal, etc.). Carefully describe your research in such a way that it can be understood by researchers outside your field of expertise. Describe how your research will lead to the resolution of problems with respect to natural science, science and technology, people, society, and culture, as well as the position of your research.</p> <p>(2) Describe what types of transferable skills* you intend to acquire in this program and why and how you intend to acquire them.</p> <p>Transferable skills in this program: skills that can be widely transferred and applied, such as originality, free thinking, a challenging spirit, the ability to identify research needs, research management skills, interactive skills, and leadership skills that attract people, which are necessary for innovative human resources.</p> <p>(3) Describe your thoughts on your career path after completing the doctoral course and how you would like to be active and contribute to society.</p>		
<p>Attention. Do not change this page and start your essay from page 2. Do not add sheets or change the format. You may use figures and tables. When citing literature, etc., the source should be clearly indicated. When describing achievements, etc., in the text, your name should not be identified; just "Applicant" should be used.</p>		

