## AY 2022 / AY2023 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 Program to Foster Architects Who Lead a Super-Smart Society by Co-Creating Innovating Solutions to "X-Care" Social Issues

Fellowship Student Application Guidelines

[0616 revised]

# Osaka Metropolitan University Doctoral Human Resource Development Support Office June 2022

\*Contents assume that the budget for academic year 2023 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

| App. | lication | period |
|------|----------|--------|

Microsoft Forms submission: Mon. July 4, 2022 – Mon. July 11, 2022, 12:00 p.m. Submission of essay and face photo: Mon. July 4, 2022 – Mon. July 11, 2022, 3:00 p.m. Interview

One of the following days: Mon. July 25, 2022 through Fri. August 5, 2022 Announcement of Acceptance: Fri. September 2, 2022

# I. Nambu-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, 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 Fellowship Program to Foster Architects who Lead a Super-Smart Society with Co-Creating Innovative Solutions to "X-Care" Social Issues

#### 1. Our Ideal Image of Researcher

In this program, we define "X-Care problem-solving" as those that require discerning and understanding the health and soundness of people, products, society, and culture, especially in human healthcare, product care, and social system care, as well as the prevention of unhealthy conditions alongside a rapid recovery to a healthy state. The goal of this program is to foster "co-creative X-Care problem-solving architects," who can design systems to achieve X-Care problem solving process through co-creation activities with various stakeholders. The architects are required to have (1) "sense of discernment" to decide what information to use to determine the health status of the care target, (2) expertise to essentially decipher the health of the care target from the data, (3) data analytics expertise to process and analyze a vast amount of data on the care target using appropriate algorithms in a timely manner. In addition, they are required to have the ability to design a sustainable ecosystem with many members in order to resolve X-Care issues. Based on these elements as a background, this program will foster human resources with the ability to solve social issues through an interdisciplinary approach, focusing on informatics and collaborating with the natural sciences, humanities, and social sciences.

#### 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 opportunities for co-creative joint research
- Providing lectures that contribute to solve X-Care issues
- · Providing lectures to support the improvement of research capabilities

#### (2) Programs to secure career paths

- Conducting long-term internships
- Introduction of multiple supervisor scheme through a mentor system
- · Conducting Interactive Matching event with related companies

# **IV 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. Please also see "5. Number of students to be accepted (capacity)" on Page 11.

<u>Graduate School and Majors listed in Table 1-1, Table 1-2, and Table 1-3 (Three-Year Doctoral</u> <u>Course).</u>

- Applicants who plan to apply for admission in April 2023 to the graduate schools and majors listed in Table 1-1.
- (2) Applicants who plan to apply for admission in October 2022 to the graduate schools and majors listed in Table 1-1.
- (3) Persons who were admitted in April 2022 to the graduate schools and majors listed in Table 1-1, who are enrolled as of October 1, 2022 and not on a leave of absence.
- (4) Persons who were admitted in October 2021 to the graduate schools and majors listed in Table 1-2 and Table 1-3, who are enrolled as of October 1, 2022 and not on a leave of absence.
- (5) Persons who were admitted in April 2021 to the graduate schools and majors listed in Table 1-2 and Table 1-3, who are enrolled as of October 1, 2022 and not on a leave of absence.

<u>Graduate Schools and Majors listed in Table 2-1 and Table 2-2 (Four-Year Doctoral Course /</u> Graduate School of Medicine and Department of Veterinary Science)

- (6) Persons who were admitted in April 2022 to the graduate schools and majors listed in Table 2-1, who are enrolled as of April 1, 2023 and not on a leave of absence.
- (7) Persons who were admitted in April 2021 or October 2021 or October 2020 to the graduate schools and majors listed in Table 2-2, who are enrolled as of October 1, 2022 and not on a leave of absence.
- (8) Persons who were admitted in April 2020 to the graduate schools and majors listed in Table 2-2, who are enrolled as of October 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)
- International 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 whose affiliated company has a welfare program that provides a sufficient amount of money as living expenses (2.4 million yen / year as a reference).

- 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.

• Program for Developing Human Resource with Rhizome-based Research Approach and Second/Third Choice

Applicants may NOT apply for the Program for Developing Human Resource with Rhizomebased Research Approach, or they will be requested to withdraw one of the applications prior to the selection process.

If you are not selected for your first choice of the program, you may further apply for second and/or third choice(s) in a different field of fellowship programs or for the Program for the Developing Human Resources with Rhizome-based Research Approach (Support for Pioneering Research Initiated by the Next Generation program). Nevertheless, such further application is considered only if the field and/or program of your second and third choices have not been filled. Please note that the second and third choice cannot be the same field/program. In addition, applicants who meet Application Requirements (3) through (8) listed on Page 11 cannot select the Program for Developing Human Resource with Rhizome-based Research Approach (Support for Pioneering Research Initiated by the Next Generation program) as their second or third choice due to the program requirements (only prospective students for admission in October 2022 and April 2023 are eligible for the program).

Please apply for the fellowship programs upon understanding the purpose and contents by watching explainer videos for each program and the founding project "University Fellowship Founding Project for Innovation Creation in Science and Technology" on the following website: <u>http://fellowship-program.osakafu-u.ac.jp</u>

| Osaka Metropolitan University<br>Graduate School/Department/Major |  |   | Materials  | Super-<br>Smart<br>Society |
|---|--|---|------------|----------------------------|
| Sustainable System<br>Sciences                                    | Sustainable System<br>Sciences Sustainable System Sciences       |   | ×          | 0                          |
|   | Philosophy and History   | × | ×          | 0                          |
| Literature and Human  | Human Behavioral Sciences  | × | ×          | 0                          |
| Sciences  | Language and Culture   | × | ×          | 0                          |
|   | Cultural Management  | × | ×          | 0                          |
| Law   | Law and Political Science  | × | ×          | 0                          |
| Economics   | Economics  | × | ×          | 0                          |
| Business  | Global Business  | × | ×          | 0                          |
| Urban Management  | Urban Management   | × | ×          | 0                          |
| Information   | Core Informatics   | 0 | 0          | 0                          |
| mormatics   | Interdisciplinary  | × | 0          | 0                          |
|   | Mathematics  | 0 | 0          | 0                          |
|   | Physics  | 0 | 0          | 0                          |
| Saianaa   | Chemistry  | 0 | 0          | 0                          |
| Science   | Biology  | 0 | 0          | 0                          |
|   | Geosciences  | 0 | $\bigcirc$ | 0                          |
|   | Biological Chemistry   | 0 | $\bigcirc$ | 0                          |
|   | Aerospace and Marine-System<br>Engineering                       | × | 0          | 0                          |
|   | Mechanical Engineering   | × | 0          | 0                          |
|   | Urban Engineering  | × | ×          | 0                          |
| Engineering   | Physics and Electronics  | 0 | $\bigcirc$ | 0                          |
| Engineering   | Electrical and Electronic<br>Engineering                         | × | 0          | 0                          |
|   | Science and Engineering for<br>Materials, Chemistry, and Biology | 0 | 0          | 0                          |
|   | Quantum and Radiation Engineering                                | 0 | 0          | $\bigcirc$                 |
|   | Applied Biological Chemistry                                     | × | 0          | 0                          |
| Agriculture   | Agricultural Biology   | × | 0          | 0                          |
|   | Environmental Sciences   | × | 0          | $\bigcirc$                 |
| Rehabilitation Science  | Rehabilitation Science   | × | ×          | 0                          |
| Nursing   | Nursing  | × | ×          | 0                          |
| Human Life and Ecology  | Human Life and Ecology   | × | ×          | 0                          |

## Table 1-1 \*See also "5. Number of students to be accepted (capacity)" on Page 11.

|   | *                                 |            |                   |                 |
|---|-----------------------------------|------------|-------------------|-----------------|
| Osaka Prefecture University (OPU)<br>Graduate School/Department/Major |                                   | Quantum    | Materials         | Super-<br>Smart |
|   |                                   | Science    | 1,1,1,0,1,1,0,1,0 | Society         |
|   |                                   |            |                   | Society         |
|   | Mechanical Engineering            | ×          | 0                 | $\bigcirc$      |
|   | Aerospace and Marine-System       | ×          | $\bigcirc$        | $\bigcirc$      |
|   | Engineering                       | ~          | U                 | $\bigcirc$      |
|   | Electronics, Mathematics, and     |            |                   | (               |
|   | Physics                           | 0          | 0                 | 0               |
|   | Electrical Engineering and        |            |                   |                 |
| Engineering   | Information Science/              | ×          | $\bigcirc$        | $\bigcirc$      |
|   | Electrical Engineering Area       |            |                   |                 |
|   | Electrical Engineering and        |            |                   |                 |
|   | Information Science/ Information  | $\bigcirc$ | $\bigcirc$        | $\bigcirc$      |
|   | Science Area                      |            |                   |                 |
|   | Materials Science and Engineering | 0          | 0                 | $\bigcirc$      |
|   | Quantum and Radiation Engineering | 0          | 0                 | $\bigcirc$      |
|   | Applied Life Science              | ×          | 0                 | 0               |
| Life and Environmental  | Environmental Sciences and        | ~          | $\bigcirc$        | $\bigcirc$      |
| Sciences  | Technology                        | ~          | U                 | $\bigcirc$      |
|   | Mathematical Sciences             | 0          | 0                 | $\bigcirc$      |
|   | Physical Science (Geoscience)     | 0          | 0                 | $\bigcirc$      |
| Science   | Physical Science (Non-Geoscience) | 0          | 0                 | 0               |
|   | Chemistry                         | 0          | 0                 | $\bigcirc$      |
|   | Biological Science                | 0          | $\bigcirc$        | $\bigcirc$      |

Table 1-2\*See also "5. Number of students to be accepted (capacity)" on Page 11

| Osaka City University<br>Graduate School/Department/Major |   | Quantum<br>Science | Materials  | Super-<br>Smart<br>Society |
|---|---|--------------------|------------|----------------------------|
|   | Mathematics and Physics/ Mathematics                          | 0                  | 0          | 0                          |
|   | Mathematics and Physics/ Physics                              | 0                  | $\bigcirc$ | $\bigcirc$                 |
| Science   | Molecular Materials Science                                   | 0                  | $\bigcirc$ | $\bigcirc$                 |
|   | Biology and Geosciences/ Biology                              | 0                  | $\bigcirc$ | $\bigcirc$                 |
|   | Biology and Geosciences/ Geosciences                          | 0                  | $\bigcirc$ | $\bigcirc$                 |
| Engineering   | Mechanical and Physical Engineering                           | ×                  | $\bigcirc$ | $\bigcirc$                 |
|   | Physical Electronics and Informatics/<br>Informatics          | 0                  | 0          | 0                          |
|   | Physical Electronics and Informatics/<br>Physical Electronics | 0                  | 0          | 0                          |
|   | Applied Chemistry and Bioengineering                          | 0                  | 0          | 0                          |
|   | Urban Engineering   |                    | N/A        |                            |

Table 1-3\*See also "5. Number of students to be accepted (capacity)" on Page 11

| Table 2-1 | *See also | "5. Number | of students to | be accepted | (capacity)"    | on Page 11. |
|-----------|-----------|------------|----------------|-------------|----------------|-------------|
|           |           |            |                | 1           | \ <b>I J</b> / | 0           |

| Osaka Metropolitan University<br>Graduate School/Department |                          |   | Materials  | Super-<br>Smart<br>Society |
|---|--------------------------|---|------------|----------------------------|
| Veterinary Science  | Veterinary Science       | × | $\bigcirc$ | 0                          |
| Madiaina  | Basic Medical Science    | × | 0          | 0                          |
| Medicine  | Clinical Medical Science | × | 0          | 0                          |

Table 2-2\*See also "5. Number of students to be accepted (capacity)" on Page 11.

| Graduate School/Department              |                          |   | Materials  | Super-<br>Smart<br>Society |
|---|--------------------------|---|------------|----------------------------|
| OPU/ Life and<br>Environmental Sciences | Veterinary Science       | × | $\bigcirc$ | 0                          |
| OCU/Madiaina                            | Basic Medical Science    | × | $\bigcirc$ | $\bigcirc$                 |
|   | Clinical Medical Science | × | $\bigcirc$ | $\bigcirc$                 |

| Number of students to be accepted  |   |   |   |   |  |   |  |
|--|---|---|---|---|--|---|--|
| *Below numbers correspond to ones listed in "4. Application Requirements". |   |   |   |   |  | nents".   |  |
| (1)  | (6)   | (2)   | (3)   | (4)   | (7)  | (5)   | (8)  |
| 5 students   | -   | 5 students -  |   |   |  |   |  |
| 12 stu   | idents  | 5 students 1 student  |   |   |  |   |  |
| 8 stu  | dents   | -   |   |   |  |   |  |
|  | *Belo<br>(1)<br>5 students<br>12 stu<br>8 stu | *Below numbers<br>(1) (6)<br>5 students<br>-<br>12 students<br>8 students | *Below numbers correspon   (1) (6) (2)   5 students - -   12 students 8 students 8 students | Number of studen   Number of studen   *Below numbers correspond to ones li   (1) (6) (2) (3)   5 students - 5 students   12 students 5 students 5 students   8 students - - - | Number of students to be ac<br>*Below numbers correspond to ones listed in "4.(1)(6)(2)(3)(4)5 students- $5$ students $5$ students12 students5 students $5$ students $-$ | Number of students to be accepted*Below numbers correspond to ones listed in "4. Application(1)(6)(2)(3)(4)(7)5 students- $5$ students12 students5 students | Number of students to be accepted*Below numbers correspond to ones listed in "4. Application Requirem(1)(6)(2)(3)(4)(7)(5)5 students-5 students12 students $5$ students-1 students8 students |

### 5. Number of students to be accepted (capacity)

#### **6. Application Documents**

(1) Where to apply:

Please visit <u>https://forms.gle/rFbGxbU9g7RjeHf89</u> (use a browser other than Internet Explorer) and submit the required information. Submission deadline: 12:00 p.m. on Mon. July 11, 2022

Also, send the files listed in "(2) Files" below to the following address by email: <u>gr-knky-fellow-na@omu.ac.jp</u>

Submission deadline: 3:00 p.m. on Mon. July 11, 2022

\*Notification of receipt will NOT be sent.

Please do not forget to encrypt the files, and send the password(s) in a separate email.

Your application will be received by completing the submission of both Microsoft Forms and required files. Doctoral Human Resource Development Support Office will contact you only to inquire about your entry on Forms or request for re-submission of the files.

\*The application on Microsoft Forms sets many sections for entry and it will take time for you to complete filling in. Please give yourself a sufficient time to proceed with the application. In case you submit the application forms for multiple times, only the latest submission shall be valid and received.

#### (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, followed by a 13 minutes question-and-answer session. In your presentation, you may utilize Microsoft Powerpoint or other presentation tools. |

(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.

#### 8. Date and Place of Interview

After the application documents are received, the date and time will be designated sometime between Monday, July 25 and Friday, August 5.

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 Friday, July 22. If you do not hear from us by 4:30 p.m. on Friday, July 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

Google Form submission: Monday, July 4, 2022 – Monday, July 11, 2022, 12:00 p.m.

Submission of essay and face photo: Monday, July 4, 2022 – Monday, July 11, 2022, 3:00 p.m.

(2) Notification of Interview Date and time

Notification to be sent by Friday, July 22 to the e-mail address provided on the application form

(3) Interview

Monday, July 25, 2022 – Friday, August 5, 2022 between 9:00 a.m. and 5:05 p.m. The interview will take approximately 25 minutes.

(4) Announcement of Acceptance

Friday, September 2, 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) and (6) listed in "4. Application Requirements"

- 1. Program start date: Saturday, April 1, 2023
- 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, 2023.

#### (2), (3), (4), (5), (7) and (8) listed in "4. Application Requirements"

- 1. Program start date: Saturday, October 1, 2022
- 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 for AY2022, regardless of the date of enrollment; 2 million yen for AY2023 and onwards.]).

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 inquire at the Doctoral Human Resource Development Support Office.

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.

Doctoral Human Resource Development Support Office

Email: gr-knky-fellow-na@omu.ac.jp

#### (Form 1)

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 Program to Foster Architects who Lead a Super-Smart Society with Co-Creating Innovative Solutions to "X-Care" Social Issues

# **Essay Form**

|  |  | Examinee's          | (Do not fi  | ll in)                    |  |  |
|--|--|---------------------|-------------|---------------------------|--|--|
|  |  | number              |             |                           |  |  |
|  |  | Date                | of Birth    | YYYY/MM/DD                |  |  |
| Name   |  |                     |             |                           |  |  |
|  | Graduate School of   | Acadeı              | nic         |                           |  |  |
| Affiliation  | Major in   | Superv              | isor        |                           |  |  |
| Subject of rese  | arch   |                     |             |                           |  |  |
| Research Keyv  | words (about 5)  |                     |             |                           |  |  |
| This is the end  | of the information to be included on this page.  |                     |             |                           |  |  |
| Please start you   | ur essay from next page in accordance with the   | instructions b      | below.      |                           |  |  |
| • There is n   | o fixed format or template for this essay assign   | ment.               |             |                           |  |  |
| • Please ma  | ke it intelligible for people outside the field.   |                     |             |                           |  |  |
| • The essay  | must not be more than <u>2 pages</u> long in <u>A4 paper</u>   | <u>size</u> when wr | itten in Ja | panese (approximately     |  |  |
| 45 charact   | ters a line and 40 lines in a page), including ima   | ges, tables an      | d graphs.   | Maximum word count        |  |  |
| <u>1s 2000 w</u>   | ords when written in English. When describing  | your achieve        | ements in   | the essay, please write   |  |  |
| "Applican  | it" to refer to yourself. Do not include your nam  | le.                 |             |                           |  |  |
| • Please inc   | lude following 3 points in your essay.   | •                   | <b>a</b>    |                           |  |  |
| Understand the   | e ideal researcher characteristics of the fellowsh   | up program (        | Quantum     | , Materials, and Super-   |  |  |
| Smart Society)   | that you are applying for:   |                     | c 1 ·       |                           |  |  |
| (1) Describe   | the purpose of your research (academic backg   | ground, speci       | tic object  | tives, features, original |  |  |
| points, e  | tc.) and your plan (specific research content and  | d methods to        | achieve 1   | the research goal, etc.). |  |  |
| Carefully  | y describe your research in such a way that it ca  | an be underst       | ood by re   | searchers outside your    |  |  |
| field of e   | expertise. Describe now your research will lead  | to the resolu       | tion of pi  | oblems with respect to    |  |  |
| natural s  | natural science, science and technology, people, society, and culture, as well as the position of your |                     |             |                           |  |  |
| research   | a application form as supplementary desument   | nowship for         | roung Sc    | cientist in F i 2025 may  |  |  |
| (2) Describe   | what types of transferable skills* you intend to   | acquire in this     | nrooren     | and why and how you       |  |  |
| (2) Describe what types of transferable skins <sup>1</sup> you mend to acquire in this program and why and now you |  |                     |             |                           |  |  |

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.

(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.

intend to acquire them.