Application call: FY2022 Fellowship Program

"Fellowship program to foster architects who lead super-smart society with co-creating innovative solutions to "X-Care" social issues"

"Nambu-Einstein Fellowship Program"

"Fellowship program to foster international Ph.D. holding researchers through materials innovations"

Prof. Toshiyuki Matsui
Faculty of Liberal Arts and Sciences
Chair of Fellowship Project Steering Committee

大阪府立大学
高度研究型大学〜世界に翔く地域の信頼拠点〜

①Objective of Fellowship Program

②Provided Support

③Eligible Candidates (List of Majors)

④Selection and Schedule

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Science, Technology and Innovation Basic Plan:

https://www8.cao.go.jp/cstp/english/outline_plan.pdf

Society That Japan Aims for (Society 5.0)

"Sustainable and Resilient Society That Ensures the Safety and Security of the People, and a Society in Which Each Individual Can Realize Diverse Happiness (Well-Being)"……Realization of the SDGs

Traditional Japanese values of "trust" and "sharing"

To realize such society……
"Social Transformation utilizing Convergence of Knowledge"
and
"Investments in Knowledge and Human Resources"

• "convergence of knowledge" that fuses the natural sciences with humanities and social science

• Development of human resources to support a new society

The background and the objective of this project (MEXT)

Ph.D. students account for 20% of the first authors of published academic papers. They take an important role in the fields of frontier research and leading science technologies and innovations for next generation. Securing capable masters students aiming to be a Ph.D. student is essential for this country as the world is getting more competitive to retail highly skilled people.

In Japan, however, the number of Ph.D. students and doctors shows a tendency to decrease unlike other countries; acquiring Ph.D. does not attract students anymore because of the economic insecurity and the future career-paths being unclear.

Also, it has been pointed out that outstanding students no longer wish to become a researcher because of the disappointments in the environment surrounding researchers; this brings up a serious concern about a hollowing out of the future science, technology & innovation in Japan. The situation keeps to get worse with the spread of COVID-19 infections and the deterioration of the economy and the research environment. In order to resolve such a critical situation, we have to move fast to establish the countermeasure linked to the reformation of the university system; in other words, universities in our country need to change the way of providing support for Ph.D. students drastically.

Given the circumstances, it is our university's strategy to provide Ph.D. students with better treatment and support for their career-paths.

The target research fields of each program categories

Bottom-up: a wide range of research fields including human and social sciences, expected to create innovation utilizing the strengths of the university or the local community.

" Fellowship program to foster architects who lead super-smart society with co-creating innovative solutions to "X-Care" social issues"

Field-specific: Quantum

"Nambu-Einstein Fellowship Program"

Field-specific: Materials

"Fellowship program to foster international Ph.D. holding researchers through materials innovations"

(Detailed explanations for each program will be provided later by the professor in charge of the field.)

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The fellows passed through the selection can:

Apply for the "fellowship" (= 2,300,000yen in total per year : 500,000yen of research grant and 1,800,000yen of Research Engagement Support Fund which enables students to focus on their research)

- Research Engagement Support Fund is considered as miscellaneous income.
- As receiving Research Engagement Support Fund, the tax procedures, pension procedures, and procedures for social insurance are required.
- Research grant (up to 500,000 yen) is provided, but it needs to be properly used in accordance with the University Expenditure Rules.
- The support period is:
  - Up to 3 years for those who are enrolling in a doctorial course
  - Up to 3 years between the 2nd year and 4th year for those who are enrolling in Graduate School of Medicine and Graduate School of Life and Environmental Sciences

The support for developing a postdoctoral career-path is also provided, such as advise from the mentors and opportunities for diverse experiences.

(There are duties for the fellow students to fulfill. Also, a screening is held every year to review fellowship students' qualifications for receiving the grant and support fund. The detailed explanations will be given later.)

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An eligible student must fulfill the conditions below:

- Those who are enrolling in the majors, which each program category designate, in April 2022 or September 2021.

- Those who possess distinguished research ability and wish to focus on research. In addition, who are willing to build their own career paths.

- Students with no experience of full-time job (*Please confirm with Fellowship Support Office)

- Those who are under 30 years old as of April 1, 2022
  (For those who went through a life event [e.g., childbearing or childcare] are recommended to consult with Fellowship Support Office – there might be a case of making exception.)

- Those who are NOT: a fellow of JSPS Research Fellowship for Young Scientists, an international student funded by MONBUKAGAKUSHO Scholarship and an international student funded scholarship etc. by their home-country.

Applicants are recommended to apply for JSPS Researcher Fellowship for Yound Scientists (DC1) as much as possible.

Super-smart Society   Number of Acceptance: 12 people
(Fellowship program to foster architects who lead super-smart society with co-creating innovative solutions to "X-Care" social issues)

Department of Core Informatics, Graduate School of Informatics
Department of Interdisciplinary, Graduate School of Informatics

Division of Sustainable System Sciences, Graduate School of Sustainable System Sciences

Division of Electrical and Electronic Engineering, Graduate School of Engineering
Division of Physics and Electronics, Graduate School of Engineering
Division of Mechanical Engineering, Graduate School of Engineering
Division of Aerospace and Marine-System Engineering, Graduate School of Engineering
Division of Science and Engineering for Materials, Chemistry and Biology, Graduate School of Engineering
Division of Quantum and Radiation Engineering, Graduate School of Engineering
Division of Urban Engineering, Graduate School of Engineering

Department of Agricultural Biology, Graduate School of Agriculture
Department of Applied Biological Chemistry, Graduate School of Agriculture
Department of Environmental Sciences and Technology, Graduate School of Agriculture

Department of Veterinary Science, Graduate School of Veterinary Science

Division of Rehabilitation Science, Graduate School of Rehabilitation Science

Department of Nursing, Graduate School of Nursing

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Super-smart Society   <u>Number of Acceptance: 12 people</u>
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Department of Mathematics, Graduate School of Science
Department of Physics, Graduate School of Science
Department of Chemistry, Graduate School of Science
Department of Biology, Graduate School of Science
Department of Geosciences, Graduate School of Science
Department of Biological Chemistry, Graduate School of Science

Department of Economics, Graduate School of Economics
Department of Global Business, Graduate School of Business

Department of Law and Political Science, Graduate School of Law

Department of Human Behavioral Sciences, Graduate School of Literature and Human Sciences
Department of Cultural Management, Graduate School of Literature and Human Sciences
Department of Language and Culture, Graduate School of Literature and Human Sciences
Department of Philosophy and History, Graduate School of Literature and Human Sciences

Department of Urban Management, Graduate School of Urban Management

Department of Basic Medical Science, Graduate School of Medicine
Department of Clinical Medical Science, Graduate School of Medicine

Division of Human Life and Ecology, Graduate School of Human Life and Ecology

Quantum   Number of Acceptance: 10 people
(Nambu-Einstein Fellowship Program)

Department of Mathematics, Graduate School of Science
Department of Physics, Graduate School of Science
Department of Chemistry, Graduate School of Science
Department of Biology, Graduate School of Science
Department of Geosciences, Graduate School of Science
Department of Biological Chemistry, Graduate School of Science

Division of Physics and Electronics, Graduate School of Engineering
Division of Science and Engineering for Materials, Chemistry and Biology,
Graduate School of Engineering

Department of Core Informatics, Graduate School of Informatics

Materials　Number of Acceptance: 15 people
(Fellowship program to foster international Ph.D. holding researchers through materials innovations)

Division of Science and Engineering for Materials, Chemistry and Biology, Graduate School of Engineering
Division of Physics and Electronics, Graduate School of Engineering
Division of Electrical and Electronic Engineering, Graduate School of Engineering
Division of Mechanical Engineering, Graduate School of Engineering

Department of Chemistry, Graduate School of Science
Department of Physics, Graduate School of Science
Department of Biology, Graduate School of Science
Department of Biological Chemistry, Graduate School of Science

Department of Applied Biological Chemistry, Graduate School of Agriculture
Department of Agricultural Biology, Graduate School of Agriculture

Department of Basic Medical Science, Graduate School of Medicine

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Schedule (subject to change)

- Selections in all program categories take place in early-March, 2022

- The result will be notified in mid-March or late-March

- It is allowed to apply for up to 2 programs at the same time

- The application guidelines will be open in December

（Selection schedule for those who enroll in April 2023 is not arranged yet)

Examinations (Selection process)

- Essay

- Interview (Presentation and Q&A)