# Support for Pioneering Research Initiated by the Next Generation presented by the Division of Graduate Studies, Kyoto University (Regular category) Kyoto University Science and Technology Innovation Creation Fellowship Application Guidelines for Selection in AY 2023

## 1. Purpose

The most important challenge in graduate schools currently is to encourage talented and motivated students to proceed to doctoral level studies. In order to address this challenge, it is essential to expand financial support for students, clarify future career paths, and provide educational opportunities and support for career development that connects with those paths.

To coordinate and advance initiatives in this area, Kyoto University established the Division of Graduate Studies on October 1, 2021. This new Division will operate a range of financial support measures for graduate students in a unified and effective manner, and develop diverse career paths that enable doctoral degree holders to pursue a broad range of activities.

Kyoto University was recently selected for funding as part of the Support for Pioneering Research Initiated by the Next Generation program operated by the Japan Science and Technology Agency (JST). Under this program, as part of an initiative titled Support for Pioneering Research Initiated by the Next Generation presented by the Division of Graduate Studies, Kyoto University (hereinafter referred to as "SPRING program"), research incentive grants and other assistance will be offered to outstanding doctoral program students selected beyond the conventional frameworks of graduate schools and research laboratories.

The selection process for the SPRING Program will be conducted jointly with the Kyoto University Science and Technology Innovation Fellowship Program (hereinafter referred to as "Fellowship"), which is designed to improve the conditions and support the career paths of doctoral students who will assume responsibility for future scientific and technological innovation in Japan. Please refer to Appendix 1 for details of each disciplinary grouping of the Fellowship.

## 2. Disciplinary grouping of the SPRING program

Humanities and Social Sciences/ Informatics and AI/ Quantum science and technology / Materials sciences/ Health, medical sciences and biostudies/ Environment, Energy and Interdisciplinary Studies

Regardless of the graduate schools/divisions you belong, you can apply for any disciplinary grouping. You can choose only one disciplinary grouping.

## 3. Concurrent Fellowship Application

If you are enrolled in one of the graduate schools/departments listed in Appendix 2-1 and choose a disciplinary grouping of the designated SPRING Program, there are cases in which you will be treated as if you are concurrently applying for the corresponding Fellowship disciplinary grouping. The program to be applied to the successful candidate will be reviewed and decided through preliminary selection and university-wide selection.

As some of the Fellowship are managed being combined to a specific support program in each graduate school or WISE Program, you must confirm the conditions of being treated as concurrently application with the supervisor or person in charge in your graduate school, as well as checking Appendix 1.

Even if you are planning to enter one of the graduate schools or departments listed in Appendix 2-1, if you choose other disciplinary groupings than those designated in Appendix 2-1, you will be considered to be applying exclusively to the SPRING Program, rather than concurrently.

If you plan to enroll in a graduate school or department not listed in Appendix 2-1, you will be considered to be applying exclusively to the SPRING Program.

If you are in the second year of a four-year doctoral program in medicine or pharmaceutical sciences, you are not eligible to apply for SPRING program, but are eligible to apply exclusively to the Fellowship. For details, please refer to Appendix 2-2.

**4. Tentative Number of Awards**

SPRING program: Around 170 students
Fellowship: Around 90 students

The tentative number of awards may vary in line with budgetary conditions and other factors.

The tentative number of awards in the SPRING program is the total number including students already selected under the early-offer category during the AY 2022 selection process.

Substitutes may be selected during the current selection process to fill vacancies in the SPRING program. Additional substitutes may also be selected around fall of the current academic year.

**5. Eligibility to Apply**

Students must be enrolled in one of the following doctoral programs at the University in April 2023.

There is no age requirement, including for foreign nationals. Enrolled working adults who are receiving salary from their company, etc. are not eligible, but those who are not receiving stable salary from their company, etc. or receiving less than 2.4 million yen per year are eligible to apply. (Except for the case that they are not receiving any salary in spite that they have access to a system that allows them to receive more than 2.4 million yen per year.)

① First year of doctoral program or a four-year doctoral program in medicine or pharmaceutical sciences
② Third year of a five-year integrated doctoral program
③ Second year of a four-year doctoral program in medicine or pharmaceutical sciences (only exclusive applications to the Bottom-up (health, medical sciences and environment) or the Materials Sciences of the Fellowship are permitted)

However, the types of students listed below are not eligible for support under this program. If you fall under any of these types during or after the selection process, please notify us promptly by submitting Form 3 to the email address shown in "16. Office in Charge and Inquiries Point."
In the event that you are selected for the JSPS Research Fellowship for Young Scientists, information will be shared with the relevant departments within the university and you will be deemed to have withdrawn your application/selection for this program. In this case, there is no need to submit Form 3.

- Students selected for the JSPS Research Fellowship for Young Scientists
- Students obtaining stable income through salary, executive remuneration, or the like from their affiliated university, company, etc., at a level sufficient to cover living expenses (2.4 million yen annually). (As income from paid internship, RA, TA, or part-time job is not regarded as stable income, such income is not subject to regulation based on the amount of income. However, if it interferes with research, career development or training content efforts., the support may not be continued. In addition, if you are earning more than 2.4 million yen annually by holding a post such as a non-regular employee or a temporary employee for some period of time, you are not eligible to apply for the program. This also applies to self-employed worker.)
- International students supported by a Japanese Government Scholarship, a scholarship from their home country, or the like

If you are receiving support for research expenses rather than living expenses, you may still be eligible for this program.

If you are currently receiving a scholarship from a private scholarship foundation or have an offer of a scholarship from a private scholarship foundation, please be sure to confirm with that foundation if you are permitted to apply for the SPRING Program or Fellowship before applying, regardless of whether or not you are eligible to receive both scholarships concurrently. Failure to do so may result in the revocation of your scholarship from the private scholarship foundation or the SPRING Program or Fellowship.

## 6. Cancellation

Your selection under this program may be cancelled or support may be suspended temporarily if any of the following applies:

(i) Inadequate engagement with studies and/or research;
(ii) Withdrawal, suspension, or leave of absence from the doctoral program;
(iii) Subjection to disciplinary action under the Article 53 mutatis mutandis application of paragraph 1, Article 32 of the General Regulations of Kyoto University (Order No. 3 of 1953);
(iv) Other grounds judged by the program's coordinators to warrant cancellation or temporary suspension.

## 7. Support Start Date

April 1, 2023

Support expires at the end of the standard period required for completion of your degree program: you will not receive support beyond this period. Also, any periods of absence from school are not eligible for support. However, if it becomes difficult to continue the research due to childbirth, childcare, injury or illness, etc., the support period may be suspended or extended according to individual circumstances.

As a result of the selection process, the period of support may be adjusted individually within the standard period required for completion of your degree program.

## 8. Value of Support

SPRING program: Research incentive grant of 2.2 million yen per year (1.8 million yen for living expenses + 0.4 million yen for research expenses)

Fellowship : Research incentive grant of 2.1 million yen per year (1.8 million yen for living expenses + 0.3 million yen for research expenses)

(Part of the amount corresponding to living expenses may be paid as salary by employing the student as an RA. Alternatively, the student may be appointed as an RF and paid commensurately.)

The amount corresponding to living expenses will be provided beginning in April 2023.
Research expenses can be used for expenses incurred after the date set by the Division of Graduate Studies after the completion of the selection process.
Tuition exemption will be announced on our website in late March.

Research expenses may be used for the following purposes:

① Goods expenses: Costs of new purchases of apparatus, equipment, consumables, etc. that are essential for research

② Travel expenses: Costs (transportation, accommodation, daily allowance) of official international and domestic research related travel (to gather materials, conduct surveys, meet with collaborators, present findings, etc.)

③ Honoraria: Costs of paying honoraria etc. to individuals cooperating with research and development (organizing materials, assisting with experiments, translating/proofreading, providing expert knowledge, distributing/collecting questionnaires, gathering research materials, etc.)

④ Other expenses: Costs associated with the implementation of research projects (concrete examples include printing and copying documents, developing and printing images, communication [postage stamps, telephone charges, etc.], freight, rental of specialized facilities, meetings [venue hire, food and beverages other than alcohol], rentals [computers, vehicles, experimental equipment/devices, etc.], equipment repairs, transportation other than travel expenses, presentation of research findings [journal publication charges, website production, production of brochures to publicize research findings, etc.])

If a student is selected for the SPRING program, the Director of the Division of Graduate Studies, who is in charge of the Program, will provide support for the student through the " Discretionary Expense of the Director of the Division of Graduate Studies" system, which provides an amount exceeding the research expenses if the Director deems it significant for the student's research or career development. Recipients of the SPRING Program will be notified of the details of the recruitment process.

If you are selected for a Fellowship, you will be required to participate in programs relevant to improving your research skills and supporting your career path, etc., which are implemented by the University and the graduate school to which the Fellowship applies and in which you are instructed to participate. Please refer to Appendix 1 for details.

## 9. Application Procedure

### (1) Application documents

- Form 1　Application form
  Research plan, etc.
- Form 2　Confirmation Form
  Directly request a faculty member who has a substantial understanding of your research, such as a supervisor.
- Transcription of grades in master's program (From the first year to the most recent one that can be submitted, such as the first semester of the second year.)
  However, in the case of a five-year integrated doctoral program, submit the doctoral program grades.
  For a four-year doctoral program in medicine or pharmaceutical sciences, submit the transcript of grades from the undergraduate program.

The language used on the documents shall be Japanese or English.

### (2) How to apply

Please apply through the web application system. We will not accept any application other than through the web application system. Please do the following in the web application system (For details, please refer to the manual).

- Enter basic information and upload all application documents other than Form 2 (Confirmation Form)
- Enter the email address of your academic advisor, etc., and send them a request to upload Form 2 (Confirmation Form). The system will send a link to the specified email address to upload Form 2.
- After completing the above two steps, click the "Complete" button to finalize your application.

Web Application System URL:　https://kugd.kyoto-u.online/applicant/senkos/8/top

(3) Application period

From Friday Monday 27 to 5:00 p.m., Tuesday March 21, 2023 (Japan Standard Time) [strictly enforced]

It is not possible to apply after this period. Additionally, servers may be busy during the final hours before the application period ends. We are not responsible for any delays or problems caused by web traffic. Please allow plenty of time for your application.

(4) Points to note

- Please use the prescribed forms for your application documents. Applications that do not use these forms will not be accepted.
- After the application is finalized (completed) on the web application system, it cannot be canceled under any circumstances. You are not permitted to change or append any information in the application form.
- One application per person only. If you submit two or more applications, all your applications will be invalidated.
- If your application documents are found to contain any false information, your eligibility to apply and receive support under this program will be revoked. Even if you have already been selected to receive the support, the revocation will apply retrospectively to the date of selection and your selection may be cancelled.

## 10. Screening and Results

The selection process of the SPRING program involves a preliminary screening and a university-wide screening. The preliminary screenings will be conducted in the disciplinary groupings shown in the Appendix, with a focus on expertise and abilities in your area of disciplinary specialization. Those passing the preliminary screening will undergo a university-wide screening, which focuses on ambitious, integrative research plans and motivation with a capacity to address societal needs, regardless of the disciplinary area.

The selection of the Fellowship is conducted by the steering committee in each disciplinary grouping and the university-wide Fellowship Management Committee.

Applicants will be notified directly of the screening results by email on or after Friday May 12, 2023.

## 11. Appropriate Management of Research Incentive Grants, etc.

Kyoto University has established Guidelines for the Use of Competitive Research Funds (Ver. 9) (hereinafter “the Guidelines”) to ensure appropriate administration and management of competitive research funds.

Graduate students selected under the SPRING and Fellowship programs are required to comply with the Guidelines.

Reference Material: Handbook on the Use of Research Funds

URL https://www.kyoto-u.ac.jp/ja/research/rule/public/competitive/handbook

### 12. Take e-Learning Research Courses

Graduate students selected for the SPRING Program and Fellowships must take research ethics training "eAPRIN (formerly CITI)" and "Appropriate Use of Research Funds, etc." on the Kyoto University e-learning training system.

### 13. Cooperation

Graduate students selected for SPRING program or Fellowship will be required by the Japan Science and Technology Agency (JST), Ministry of Education, Culture, Sports, Science and Technology (MEXT) or Kyoto University to cooperate with the matters shown below. Details will be provided to successful applicants at a later date.

① **Participation in exchange meetings with other doctoral students**
Doctoral students participating in this program will attend inter-university exchange meetings to inspire one another and form interpersonal networks through interaction with students at other universities.

② **Student monitoring surveys**
JST or MEXT will conduct direct follow-up activities with students receiving support under this program, as well as guaranteeing access for those students and soliciting their opinions directly. The results of these activities will be used directly in the evaluation of projects to support doctoral students.

③ **Evaluation of effectiveness and follow-up surveys**
Follow-up surveys on the careers of program alumni will be conducted over a period of ten years or more, and the results provided to JST or MEXT.

### 14. Handling of Personal Information

The personal information contained in application documents will be managed strictly in accordance with the Kyoto University Regulations Concerning the Handling of Personal Information and used only to perform work pertaining to the screening of applicants for this program. Please be aware, however, that some personal information may be provided to other relevant departments within Kyoto University for verification purposes in the event that an applicant is selected to receive support from any of the other programs listed under "5. Eligibility to Apply."

If you are selected for SPRING program or Fellowship, your personal information will be publicized to ensure appropriate transparency.

### 15. Publication of research outcomes

When presenting research results obtained through the SPRING Program, please indicate that the research was supported by the Program as demonstrated by the following example.

SPRING program:
Grant Number: JPMJSP2110
Sample:
【En.】This work was supported by JST SPRING, Grant Number JPMJSP2110.
【和】本研究は、JST 次世代研究者挑戦的研究プログラム JPMJSP2110 の支援を受け

たものです。

Fellowship
Grant Number: JPMJFS2123
Sample:
【En.】This work was supported by JST, the establishment of university fellowships towards the creation of science technology innovation, Grant Number JPMJFS2123.
【和】本研究は、JST 科学技術イノベーション創出に向けた大学フェローシップ創設事業 JPMJFS2123 の支援を受けたものです。

## 16. Handling of Living Expenses

The amount equivalent to your living expenses is treated as miscellaneous income under the tax law and is subject to income tax and resident tax. You must file your own tax return. In addition to informing your financial supporter (parent, etc.) of this, please inquire with the HR Department in your financial supporter's (parent, etc.) workplace about the handling of support in terms of health insurance, support allowance, etc. Also, be sure to properly complete and manage your own social insurance and pension procedures.

## 17. Office in Charge and Inquiries Point

Division of Graduate Studies, Kyoto University
Tel : 075-753-9353, 9599
E-mail : graduate_studies_office@mail2.adm.kyoto-u.ac.jp
Website : https://www.kugd.k.kyoto-u.ac.jp/

Please note that it may take time to reply to e-mails due to the large number of inquiries received near the end of the application period.

Please allow plenty of time to prepare your application.

Also, in order for us to provide you with an accurate response, please send your inquiries by e-mail whenever possible.

If you are selected for a Fellowship, please contact the academic affairs office of the relevant graduate school or department for more information about the programs that the University and the graduate school to which the fellowship is awarded will implement and instruct you to participate in improving your research skills and supporting your career path.

(Appendix 1 - Fellowships in each disciplinary grouping)

The Ministry of Education, Culture, Sports, Science and Technology (MEXT) offers two types of university fellowship programs to promote innovation in science and technology: one is a disciplinary grouping-specific program in which the government designates disciplinary groupings (Informatics and AI, Quantum science and technology, Materials sciences) for which there is a growing need for human resources through industry and academia, and the other is a bottom-up program in which a university proposes a wide range of fields in which they expect to create innovation by utilizing their strengths and the strengths of the region.

The details of each disciplinary grouping for the Fellowship offered by the University are as follows. Please refer to the websites if available. In addition, if you are selected for a Fellowship, please contact the academic affairs office of the relevant graduate school or department for details on programs related to improving your research skills and supporting your career path that the University and the graduate school to which the fellowship applies will implement and instruct you to participate in.

- Informatics and AI
  http://www.i.kyoto-u.ac.jp/fellowship/index.html

■ **Overview**

Kyoto University has made world-leading achievements in the fields of information, AI, and data science. In order for our university to continue to lead the further development of this field, we need to further improve the environment in which faculty and students can concentrate on their research. As one of these measures, Kyoto University will provide financial support for doctoral students who are engaged in research, with the support of the "University Fellowship Program for Innovation in Science and Technology" to be launched in 2021 by the Ministry of Education, Culture, Sports, Science and Technology. It's expected that graduate students will develop a broad perspective that transcends academic disciplines and leads to innovation, in addition to the deep academic pursuits typical of Kyoto University. In this Program, in addition to financial support, we will provide opportunities to enhance research skills and cultivate this kind of broad perspective. We hope that this Fellowship Program will help Kyoto University's information, AI, and data science research to take a further leap forward and that you will grow to become future leaders in information, AI, and data science research and innovation in Japan and around the world.

■ **Obligations of students eligible for support**

- In order to contribute to improving research skills and building career paths in various academic and industrial fields after graduation, students will present their research results at "Kyoto University ICT Innovation" or "Science Club Day" (or other alternative events planned by the Graduate School of Science), and engage in long-term overseas research, research internships, or TA in data science education.
- Receive regular interviews with mentors (faculty members who provide guidance and advice on students' research and career development), and report on the status of research activities to the supervisor and others in accordance with the established deadlines.

- Quantum science and technology
  http://www.sci.kyoto-u.ac.jp/ja/academics/programs/quantum/entry/

[Important] Even if you belong to Graduate Schools/Divisions listed in Appendix 2-1, there are cases that you cannot become a successful candidate depending on some conditions. If you select "Quantum science and technology", please inform your supervisor of your application to confirm whether you can be treated as being concurrently applying for the Fellowship in advance of asking him/her to upload the Form 2 (Confirmation Form.)

Students who are receiving/earning (or have been offered) more than 2.4 million yen annually as research support from private scholarships, government research institutions, etc., are not eligible for this Fellowship due to the limitations on concurrent receipt. This disciplinary grouping is handled differently than otherwise stated under "5. Eligibility to Apply" on page 2. Please be sure to check with the Quantum Science and Technology Fellowship Office (fs-quantum-jimukyoku@mail2.adm.kyoto-u.ac.jp) in advance.

■ **Overview**

The rapid progress and development of quantum technology in recent years has been called the "second quantum revolution" in comparison to the quantum revolution of 100 years ago. As stated in the Quantum Technology Innovation Strategy issued by the Cabinet Office (January 21, 2020), the importance of the three technological areas of quantum computing/quantum simulation, quantum communication, and quantum sensing, as well as the need for new electronic devices, electrical and communication system technologies, and quantum technology theory research, are critical issues. In addition, light and quantum beam science and technology is a key technology that serves as a common foundation for everything from basic science to industrial applications, and its role and importance as a fundamental technology supporting innovation is increasing, with expectations for leading inspection and medical applications.

■ **Obligations of students eligible for support**

In order to cultivate doctoral students who can compete and cooperate with the rest of the world in the future of quantum technology, and who have sufficient expertise and vision for future career paths, the following obligations are imposed on the fellowship recipients.

- Students are required to devote themselves to the research to be conducted in the doctoral program with the aim of becoming world-class researchers. In principle, part-time jobs, etc. that are not related to the improvement of research skills or career paths are not permitted.
- Participation in the "International Symposium on Future Advanced Quantum Technology" and "Workshop on Future Advanced Quantum Technology" to improve the overall research ability of the fellowship recipients, and a research presentation (once per year each).
- At least one internship of two weeks to several months at a university, public research institution, or company in Japan or abroad during the period of the Fellowship.
- As part of the education to enhance the ability to plan and articulate a research plan, students are required to consult with their academic advisor and apply for a Japan Society for the Promotion of Science (JSPS) Research Fellowship for Young Scientists (DC) in principle.
  Be regularly interviewed by mentors (faculty members who provide guidance and advice on students' research and career development), and report on the status of research activities to the supervisor and others in accordance with the established deadlines.

## ● Materials Sciences https://sites.google.com/kyoto-u.ac.jp/fs-mat

■ **Overview**

Materials science is an academic discipline that aims to understand and utilize all phenomena and entities related to global society, from life phenomena and the creation of materials to space science, and at the same time, it is the discipline that is most widely and closely related to human activities and directly linked to the creation of innovation necessary for the sustainable development of global society. Kyoto University has achieved world-leading results in the broad field of materials science, including chemistry, material science, and life science. In order for Kyoto University to continue to lead the further development of this field, it is necessary to improve the environment in which faculty members and students can devote themselves to research. As one of these measures, Kyoto University will launch the Fellowship for Future Human Resource Development for Materials Innovation (FSMAT) with the support of the "University Fellowship Program for Innovation in Science and Technology" to be launched in 2021 by the Ministry of Education, Culture, Sports, Science and Technology (MEXT), and will provide financial support to doctoral program graduate students engaged in materials science research. It's expected that graduate students will develop a broad perspective that transcends academic disciplines and leads to the creation of innovations, in addition to the deep academic pursuits typical of Kyoto University. In this Program, in addition to

financial support, we will provide opportunities to enhance research skills and cultivate this kind of a broad perspective. We hope that this fellowship program will contribute to the further development of materials science at Kyoto University and to your growth as future leaders in materials science research and innovation in Japan and around the world.

■ **Obligations of students eligible for support**

- The Graduate School of Engineering will operate a system combining the Graduate School's own doctoral student support system (Engineering RA Program) and the Fellowship. Students who are eligible to apply for the Engineering RA Program must be sure to complete both this application and the Engineering RA Program application. However, the total amount of Fellowship support will not change even if the student is selected for the Engineering RA Program.
  (See: https://www.t.kyoto-u.ac.jp/ja/admissions/doctor/dsupport/index.html)
- Be regularly interviewed by a mentor (a faculty member who provides guidance and advice on students' research and career development), and report on the status of research activities to your academic advisor and others in accordance with the established deadlines.

● Bottom-up (health, medical sciences and environment)

[Important] When selecting fellows in medical sciences (Eligible applicant: D1 and D2 in Department of Medicine in Graduate School of Medicine), those who are currently studying under the "Graduate Program for Medical Innovation" take priority.

■ **Overview**

In the field of health, medicine, and the environment, in addition to pursuing in-depth academic research, we aim to help students build a system of knowledge that develops the ability to position their own research from a broad perspective that transcends academic disciplines. By observing the activities of the five participating graduate schools and occasionally participating in events at other graduate schools, we hope that participants will practice cross-disciplinary research that is not bound by established specialties.

We hope that this Fellowship program will help Kyoto University to make further progress in the field of health, medicine, and the environment, and that you will develop into future leaders in the fields of health, medicine, and the environment and in innovating in Japan and around the world.

■ **Obligations of students eligible for support**

- Actively participate in programs conducted by each graduate school to improve your research skills.
- Actively participate in internships recommended by each graduate school.
- Actively participate in efforts to support career paths recommended by each graduate school.
- Be interviewed regularly by a mentor (a faculty member who provides guidance and advice regarding the student's research and career development), and to report on the status of research activities to the faculty advisor and others in accordance with the established deadlines.

① (Appendix 2-1 -- Applying Concurrently with the Fellowship (For D1(or D3 in a five-year integrated doctoral program)))

| Graduate School | Division/Department | SPRING Program Disciplinary Grouping | Fellowship's Disciplinary Grouping in which you are treated as Concurrent Applicant |
|---|---|---|---|
| 理学研究科<br>Graduate School of Science | 数学・数理解析専攻<br>Mathematics and Mathematical Sciences | 情報・AI<br>Informatics and AI<br>量子<br>Quantum science and technology<br>マテリアル<br>Materials sciences | 情報・AI<br>Informatics and AI<br>量子<br>Quantum science and technology<br>マテリアル<br>Materials sciences |
| | 物理学・宇宙物理学専攻<br>Physics and Astronomy | 量子<br>Quantum science and technology | 量子<br>Quantum science and technology |
| | 地球惑星科学専攻<br>Earth and Planetary Sciences | 情報・AI<br>Informatics and AI | 情報・AI<br>Informatics and AI |
| | 化学専攻<br>Chemistry | マテリアル<br>Materials sciences | マテリアル<br>Materials sciences |
| | 生物科学専攻<br>Biological Sciences | マテリアル<br>Materials sciences | マテリアル<br>Materials sciences |
| 医学研究科<br>Graduate School of Medicine | 医学専攻<br>Medicine | マテリアル<br>Materials sciences<br>健康・医療・生命<br>Health, medical sciences and biostudies | マテリアル<br>Materials sciences<br>ボトムアップ(健康・医療・環境)<br>Bottom-up (Health, medical sciences and environment) |
| | 医科学専攻<br>Medical Science | マテリアル<br>Materials sciences | マテリアル<br>Materials sciences |
| 薬学研究科<br>Graduate School of Pharmaceutical Sciences | 薬科学専攻<br>Pharmaceutical Sciences | マテリアル<br>Materials sciences<br>健康・医療・生命<br>Health, medical sciences and biostudies | マテリアル<br>Materials sciences<br>ボトムアップ(健康・医療・環境)<br>Bottom-up (Health, medical sciences and environment) |
| | 医薬創成情報科学専攻<br>Bioinformatics and Chemical Genomics | マテリアル<br>Materials sciences<br>健康・医療・生命<br>Health, medical sciences and biostudies | マテリアル<br>Materials sciences<br>ボトムアップ(健康・医療・環境)<br>Bottom-up (Health, medical sciences and environment) |
| 工学研究科<br>Graduate School of Engineering | 原子核工学専攻<br>Nuclear Engineering | 量子<br>Quantum science and technology | 量子<br>Quantum science and technology |
| | 材料工学専攻<br>Materials Science and Engineering | マテリアル<br>Materials sciences | マテリアル<br>Materials sciences |
| | 電気工学専攻<br>Electrical Engineering | 量子<br>Quantum science and technology | 量子<br>Quantum science and technology |
| | 電子工学専攻 | 量子 | 量子 |

| | | | |
|---|---|---|---|
| | Electronic Science and Engineering | Quantum science and technology | Quantum science and technology |
| | 材料化学専攻<br>Materials Science and Engineering | マテリアル<br>Materials sciences | マテリアル<br>Materials sciences |
| | 物質エネルギー化学専攻<br>Energy and Hydrocarbon Chemistry | マテリアル<br>Materials sciences | マテリアル<br>Materials sciences |
| | 分子工学専攻<br>Molecular Engineering | マテリアル<br>Materials sciences | マテリアル<br>Materials sciences |
| | 高分子化学専攻<br>Polymer Chemistry | マテリアル<br>Materials sciences | マテリアル<br>Materials sciences |
| | 合成・生物化学専攻<br>Synthetic Chemistry and Biological Chemistry | マテリアル<br>Materials sciences | マテリアル<br>Materials sciences |
| | 化学工学専攻<br>Chemical Engineering | マテリアル<br>Materials sciences | マテリアル<br>Materials sciences |
| 農学研究科<br>Graduate School of Agriculture | 農学専攻<br>Agronomy and Horticultural Science | 環境・エネルギー・複合<br>Environment, Energy and Interdisciplinary Studies | ボトムアップ（健康・医療・環境）<br>Bottom-up (Health, medical sciences and environment) |
| | 森林科学専攻<br>Forest and Biomaterials Science | 環境・エネルギー・複合<br>Environment, Energy and Interdisciplinary Studies | ボトムアップ（健康・医療・環境）<br>Bottom-up (Health, medical sciences and environment) |
| | 応用生命科学専攻<br>Applied Life Sciences | マテリアル<br>Materials sciences<br>環境・エネルギー・複合<br>Environment, Energy and Interdisciplinary Studies | マテリアル<br>Materials sciences<br>ボトムアップ（健康・医療・環境）<br>Bottom-up (Health, medical sciences and environment) |
| | 応用生物科学専攻<br>Applied Biosciences | 環境・エネルギー・複合<br>Environment, Energy and Interdisciplinary Studies | ボトムアップ（健康・医療・環境）<br>Bottom-up (Health, medical sciences and environment) |
| | 地域環境科学専攻<br>Environmental Science and Technology | 環境・エネルギー・複合<br>Environment, Energy and Interdisciplinary Studies | ボトムアップ（健康・医療・環境）<br>Bottom-up (Health, medical sciences and environment) |
| | 生物資源経済学専攻<br>Natural Resource Economics | 環境・エネルギー・複合<br>Environment, Energy and Interdisciplinary Studies | ボトムアップ（健康・医療・環境）<br>Bottom-up (Health, medical sciences and environment) |
| | 食品生物科学専攻<br>Food Science and Biotechnology | 環境・エネルギー・複合<br>Environment, Energy and Interdisciplinary Studies | ボトムアップ（健康・医療・環境）<br>Bottom-up (Health, medical sciences and environment) |

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|---|---|---|---|
| エネルギー科学研究科<br>Graduate School of Energy Science | エネルギー社会・環境科学専攻<br>Socio-Environmental Energy Science | 環境・エネルギー・複合<br>Environment, Energy and Interdisciplinary Studies | ボトムアップ（健康・医療・環境）<br>Bottom-up (Health, medical sciences and environment) |
| | エネルギー基礎科学専攻<br>Fundamental Energy Science | 環境・エネルギー・複合<br>Environment, Energy and Interdisciplinary Studies | ボトムアップ（健康・医療・環境）<br>Bottom-up (Health, medical sciences and environment) |
| | エネルギー変換科学専攻<br>Energy Conversion Science | 環境・エネルギー・複合<br>Environment, Energy and Interdisciplinary Studies | ボトムアップ（健康・医療・環境）<br>Bottom-up (Health, medical sciences and environment) |
| | エネルギー応用科学専攻<br>Energy Science and Technology | 環境・エネルギー・複合<br>Environment, Energy and Interdisciplinary Studies | ボトムアップ（健康・医療・環境）<br>Bottom-up (Health, medical sciences and environment) |
| 情報学研究科<br>Graduate School of Informatics | 情報学専攻<br>Informatics | 情報・AI<br>Informatics and AI<br>量子<br>Quantum science and technology (Communications and Computer Engineering course only) | 情報・AI<br>Informatics and AI<br>量子<br>Quantum science and technology(Communications and Computer Engineering course only) |
| 総合生存学館<br>Graduate School of Advanced Integrated Studies in Human Survivability | 総合生存学専攻<br>Advanced Integrated Studies in Human Survivability | 環境・エネルギー・複合<br>Environment, Energy and Interdisciplinary Studies | ボトムアップ（健康・医療・環境）<br>Bottom-up (Health, medical sciences and environment) |

(Appendix 2-2 -- Applying Concurrently with the Fellowship (For D2 in a four-year doctoral program in medicine or pharmaceutical sciences))

| Graduate School | Division/Department | SPRING Program Disciplinary Grouping | Fellowship's Disciplinary Grouping in which you are treated as Concurrent Applicant |
|---|---|---|---|
| 医学研究科<br>Graduate School of Medicine | 医学専攻<br>Medicine | not covered | マテリアル<br>Materials sciences<br>ボトムアップ（健康・医療・環境）<br>Bottom-up (Health, medical sciences and environment) |
| 薬学研究科<br>Graduate School of Pharmaceutical Sciences | 薬学専攻<br>Biomedical Sciences | not covered | ボトムアップ（健康・医療・環境）<br>Bottom-up (Health, medical sciences and environment |

(Appendix 3 -- Preliminary Selection Review Credits)

| 分野<br>Disciplinary Grouping | 研究科<br>Graduate School | 専攻<br>Division/Department |
|---|---|---|
| 人文・社会分野<br>Humanities and Social Sciences | 文学研究科<br>Graduate School of Letters | 文献文化学専攻<br>Philology and Literature<br>思想文化学専攻<br>Philosophy<br>歴史文化学専攻<br>History<br>行動文化学専攻<br>Behavioral Studies<br>現代文化学専攻<br>Contemporary Culture |
| | 教育学研究科<br>Graduate School of Education | 教育学環専攻<br>Interdisciplinary Studies in Education |
| | 法学研究科<br>Graduate School of Law | 法政理論専攻<br>Legal and Political Studies |
| | 経済学研究科<br>Graduate School of Economics | 経済学専攻<br>Economics |
| | 人間・環境学研究科<br>Graduate School of Human and Environmental Studies | 人間・環境学専攻<br>Human and Environmental Studies |
| | 経営管理教育部<br>Graduate School of Management | 経営科学専攻<br>Management Science |
| | アジア・アフリカ地域研究研究科<br>Graduate School of Asian and African Area Studies | 東南アジア地域研究専攻<br>Southeast Asian Area Studies<br>アフリカ地域研究専攻<br>African Area Studies<br>グローバル地域研究専攻<br>Global Area Studies |
| 情報・AI 分野<br>Informatics and AI | 理学研究科<br>Graduate School of Science | 数学・数理解析専攻<br>Mathematics and Mathematical Sciences<br>地球惑星科学専攻 |
| | 情報学研究科<br>Graduate School of Informatics | 情報学専攻<br>Informatics |
| 量子分野<br>Quantum science and technology | 理学研究科<br>Graduate School of Science | 数学・数理解析専攻<br>Mathematics and Mathematical Sciences<br>物理学・宇宙物理学専攻<br>Physics and Astronomy |
| | 工学研究科<br>Graduate School of Engineering | 機械理工学専攻<br>Mechanical Engineering and Science<br>マイクロエンジニアリング専攻<br>Micro Engineering<br>航空宇宙工学専攻<br>Aeronautics and Astronautics<br>原子核工学専攻<br>Nuclear Engineering<br>電気工学専攻<br>Electrical Engineering<br>電子工学専攻<br>Electronic Science and Engineering |
| | 情報学研究科<br>Graduate School of Informatics | 情報学専攻（通信情報システムコース）<br>Informatics（Communications and Computer Engineering course） |
| マテリアル分野 | 理学研究科 | 数学・数理解析専攻 |

| | | |
|---|---|---|
| Materials sciences | Graduate School of Science | Mathematics and Mathematical Sciences<br>化学専攻<br>Chemistry<br>生物科学専攻<br>Biological Sciences |
| | 医学研究科<br>Graduate School of Medicine | 医学専攻<br>Medicine<br>医科学専攻<br>Medical Science |
| | 薬学研究科<br>Graduate School of Pharmaceutical Sciences | 薬科学専攻<br>Pharmaceutical Sciences<br>医薬創成情報科学専攻<br>Bioinformatics and Chemical Genomics |
| | 工学研究科<br>Graduate School of Engineering | 機械理工学専攻<br>Mechanical Engineering and Science<br>マイクロエンジニアリング専攻<br>Micro Engineering<br>材料工学専攻<br>Materials Science and Engineering<br>材料化学専攻<br>Material Chemistry<br>物質エネルギー化学専攻<br>Energy and Hydrocarbon Chemistry<br>分子工学専攻<br>Molecular Engineering<br>高分子化学専攻<br>Polymer Chemistry<br>合成・生物化学専攻<br>Synthetic Chemistry and Biological Chemistry<br>化学工学専攻<br>Chemical Engineering |
| 健康・医療・生命分野<br>Health, medical sciences and biostudies | 理学研究科<br>Graduate School of Science | 生物科学専攻<br>Biological Sciences |
| | 医学研究科<br>Graduate School of Medicine | 医学専攻<br>Medicine<br>医科学専攻<br>Medical Science<br>社会健康医学系専攻<br>Public Health<br>人間健康科学系専攻<br>Human Health Sciences<br>京都大学・マギル大学ゲノム医学国際連携専攻<br>Kyoto-McGill International Collaborative School in Genomic Medicine |
| | 薬学研究科<br>Graduate School of Pharmaceutical Sciences | 薬科学専攻<br>Pharmaceutical Sciences<br>薬学専攻<br>Biomedical Sciences<br>医薬創成情報科学専攻<br>Bioinformatics and Chemical Genomics |
| | 生命科学研究科<br>Graduate School of Biostudies | 統合生命科学専攻<br>Integrated Life Science<br>高次生命科学専攻<br>Systemic Life Science |
| 環境・エネルギー・ | 理学研究科 | 地球惑星科学専攻 |

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|---|---|---|
| 複合分野<br>Environment, Energy and Interdisciplinary Studies | Graduate School of Science<br>工学研究科<br>Graduate School of Engineering | Earth and Planetary Sciences<br>社会基盤工学専攻<br>Civil and Earth Resources Engineering<br>都市社会工学専攻<br>Urban Management<br>都市環境工学専攻<br>Environmental Engineering<br>建築学専攻<br>Architecture and Architectural Engineering |
| | 農学研究科<br>Graduate School of Agriculture | 農学専攻<br>Agronomy and Horticultural Science<br>森林科学専攻<br>Forest and Biomaterials Science<br>応用生命科学専攻<br>Applied Life Sciences<br>応用生物科学専攻<br>Applied Biosciences<br>地域環境科学専攻<br>Environmental Science and Technology<br>生物資源経済学専攻<br>Natural Resource Economics<br>食品生物科学専攻<br>Food Science and Biotechnology |
| | 人間・環境学研究科<br>Graduate School of Human and Environmental Studies | 人間・環境学専攻<br>Human and Environmental Studies |
| | エネルギー科学研究科<br>Graduate School of Energy Science | エネルギー社会・環境科学専攻<br>Socio-Environmental Energy Science<br>エネルギー基礎科学専攻<br>Fundamental Energy Science<br>エネルギー変換科学専攻<br>Energy Conversion Science<br>エネルギー応用科学専攻<br>Energy Science and Technology |
| | アジア・アフリカ地域研究研究科<br>Graduate School of Asian and African Area Studies | 東南アジア地域研究専攻<br>Southeast Asian Area Studies<br>アフリカ地域研究専攻<br>African Area Studies<br>グローバル地域研究専攻<br>Global Area Studies |
| | 総合生存学館<br>Graduate School of Advanced Integrated Studies in Human Survivability | 総合生存学専攻<br>Advanced Integrated Studies in Human Survivability |
| | 地球環境学舎<br>Graduate School of Global Environmental Studies | 地球環境学専攻<br>Global Environmental Studies<br>環境マネジメント専攻<br>Environmental Management |