

# Kanazawa University Strategic Project for Development of Doctoral Students and Research Promotion Application Guidelines, April 2023

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## 0. Overview of the Support from the Project

The following table indicates the students who are eligible to apply for the "Kanazawa University Strategic Project for Development of Doctoral Students and Research Promotion" in April 2023, the individual projects that can be applied for, and the financial support for each project.

|  |   | WISE Program for Nano-Precision Medicine, Science, and Technology   | KU Doctoral Fellowship Project for Science & Technology   | Project for Outstanding Next Generation Ph.D. Students   | Preliminary Selection of Kanazawa University Strategic Project for Development of Doctoral Students and Research Promotion  |   |
|--|---|---|---|--|---|---|
| Content of project   |   | Degree course   | Support for research and career formation   |  | —   |   |
| Capacity   |   | 12/fiscal year  | 27/fiscal year  | 120 (Total for the year)   | Dozens of students/ fiscal year   |   |
| Support period (in principle)  |   | For 5 years consisting of 2 years of Master's Level Section of Integrated Course / Master's course and 3 years of Doctoral Level Section of Integrated Course, or for 4 years of 4-year Doctoral Course; within standard period of courses  | Within standard period of Doctoral Level Section of Integrated Course or within standard period of 4-year Doctoral Course students enrolled for 12 months or more   | Within standard period of Doctoral Level Section of Integrated Course or of 4-year Doctoral Course | Within standard period of Master's Level Section of Integrated Course / Master's Course   |   |
| Applicable course and year<br><br>As of April 1, 2023  | Equivalent to the first year of Master's Level Section of Integrated Course / Master's Course<br><small>(Only for those enrolling in April, 2023)</small> | ✓   | NA  | NA   | ✓   |   |
|  | Equivalent to the first to third year of Doctoral Level Section of Integrated Course  | NA  | ✓   | ✓  | NA  |   |
|  | Equivalent to the first year of 4-year Doctoral Course  | ✓<br><small>(Only for those enrolling in April, 2023)</small>   | NA  | ✓  | NA  |   |
|  | Equivalent to the second to fourth year of 4-year Doctoral Course   | NA  | ✓   | ✓  | NA  |   |
| Outline of financial support contents<br><br>Apply to FY2023   | Master's Level Section of Integrated Course / Master's Course   | Grant for living expenses per month   | 50,000 yen (in principle)   |  |   | — |
|  |   | RA salary   | ca. 360,000 yen per year maximum  |  |   | — |
|  | Doctoral Level Section of Integrated Course / Doctoral Course   | Grant for living expenses per month   | 180,000 yen (in principle)  | 180,000 yen  | 180,000 yen   |   |
|  |   | Research fund per year  | 400,000 yen   | 400,000 yen  | 400,000 yen   |   |
|  |   | RA salary   | ca. 240,000 yen per year maximum<br><small>(Only for those in the first year of 4-year Doctoral Course)</small>   | —  | —   |   |
|  | Support for travel expenses, etc.   |   | Support unique to the project available   | Support unique to the project available  | Support unique to the project available   | — |
|  | Admission fee   |   | Full exemption  |  |   |   |
| Tuition fee  |   | Full exemption  |   |  |   |   |
| Obligations of awardees<br><small>Note: read and confirm the details of 7. Obligations of Awardees</small> |   | <ul style="list-style-type: none"> <li>Awardees must acquire the credits prescribed by the WISE Program for Nano-Precision Medicine, Science, and Technology in addition to those required for completion set by the graduate school to which they belong.</li> <li>Awardees are to willingly participate in the programs related to research capability improvement and career development support conducted by Kanazawa University.</li> <li>Awardees are to report the progress and the results of the research every fiscal year in the prescribed format.</li> </ul> | <ul style="list-style-type: none"> <li>Awardees are to willingly participate in the programs related to research capability improvement and career development support conducted by Kanazawa University.</li> <li>Awardees are to report the progress and the results of the research every fiscal year in the prescribed format.</li> </ul> <p><small>[[International students]]</small><br/>In the case of international students, they must pledge that they are to be employed as research and development personnel or professional at a Japanese company, university, research entity, etc. (including overseas subsidiary) or an internationally affiliated company in Japan for 3 years or more after completing Kanazawa University Graduate School.</p> |  | <ul style="list-style-type: none"> <li>Preliminary awardees must pledge to go on to the Doctoral Level Section of Integrated Course of Kanazawa University.</li> <li>After passing the entrance examination for the Doctoral Level Section of Integrated Course of the relevant division of graduate school of Kanazawa University, they are to take the selection examination of the Project.</li> </ul> |   |

[Application documents]

- Application Forms A-1, B-1, C-1
  - Examination ticket (copy) of entrance examination of relevant division of graduate school
- ⇒
- [Those enrolling in the Doctoral Level Section of Integrated Course / Doctoral Course in April 2023]**
- Application Forms A-2, B-2, C-2
  - Examination ticket (copy) of entrance examination of relevant division of graduate school
- ⇒
- [Those currently enrolled in the Doctoral Level Section of Integrated Course / Doctoral Course]**
- Application Forms A-2, B-2, C-2

Equivalent to the first year, enrollment for less than 12 months: equivalent to the second year, enrollment for 12 months or more and less than 24 months: equivalent to the third year, enrollment for 24 months or more and less than 36 months: equivalent to the fourth year, enrollment for 36 months or more and less than 48 months.

**Note 1: For details on the support target of individual projects, be sure to read and understand 2. Outline of the Support, 1) Graduate school, course and division as the target for support, and 3. Application Requirements.**

**Note 2: Read page 2 and following carefully before preparing the application documents.**

## 1. Purpose and Outline of the Project

Kanazawa University is reinforcing support for aspiring students of the Doctoral Level Section of Integrated Course / Doctoral Course, encouraging our students to go on to the Doctoral Level Section of Integrated Course / Doctoral Course, thus fostering and nurturing research personnel with a doctoral degree who wish to create innovation in Japan and around the world.

The "**Kanazawa University Strategic Project for Development of Doctoral Students and Research Promotion**" (hereinafter referred to as "the Project") has the following three individual projects as major pillars of support for students of the Doctoral Level Section of Integrated Course / Doctoral Course.

- WISE Program for Nano-Precision Medicine, Science, and Technology
- KU Doctoral Fellowship Project for Science & Technology
- Project for Outstanding Next Generation Ph.D. Students

Each of these individual projects aims to nurture talented scientists who can contribute to society, by reinforcing support such as financial support, enhancement of the environment for concentration on research, interdisciplinary development, career development, etc.

A student of the Doctoral Level Section of Integrated Course / Doctoral Course who applies for the Project and is approved will be supported by one of the projects including the grant for living expenses, research fund, travel expense supplement, etc., and his/her research environment will be arranged to allow him/her to concentrate on research. The student is required to fulfill his/her obligations imposed by the Project and the relevant project.

In addition, undergraduate students who go on to the Master's Level Section of Integrated Course / Master's Course and pledge to further go on to the Doctoral Level Section of Integrated Course at our university will be selected as "preliminary awardees" and supported so as to reduce their financial burden during the Master's Level Section of Integrated Course / Master's Course.

We recruit ambitious students who are willing to pursue challenging and interdisciplinary research that aims to create new knowledge based on their high level of expertise and research capability and to lead to big steps forward in society.

The details of each project are as follows.

### **[WISE Program for Nano-Precision Medicine, Science, and Technology]**

This is the top-level of the Project. Project for 5-year integrated doctoral course (consisting of 2-year Master's Level Section of Integrated Course / Master's Course and 3-year Doctoral Level Section of Integrated Course) or 4-year Doctoral Course in medicine or pharmacy.

Those who have completed/acquired the required credits prescribed by the WISE Program, in addition to the requirements for completion set by the division of the graduate school to which they belong, will be awarded a doctoral degree as stipulated in the Rules for Degrees of Kanazawa University, and completion of this project will be stated in the diploma.

[Title to be added to the diploma] Completion of WISE Program for Nano-Precision Medicine, Science, and Technology

Based on nanoscience, the strength of KU, this project aims to foster and nurture "nano-precision medicine professionals strong in technology" and "nano-precision science and technology professionals strong in medicine" who will play primary roles in creating innovative prevention, diagnosis, and treatment methods through understanding and control at the nano level.

**Note: The WISE Program for Nano-Precision Medicine, Science, and Technology imposes unique requirements stipulated in its guideline in addition to the Application Guidelines, so be sure to read and confirm the guideline.**

**[KU Doctoral Fellowship Project for Science & Technology]**

This project focuses on supporting excellent doctoral students with high research motivation who will lead the research fields that can be the key to the future science and technology and creation of innovation in Japan. This project provides financial support, support for strengthening research capability and support for the formation of diverse career development for excellent students of the Doctoral Level Section of Integrated Course / Doctoral Course in three research fields: interdisciplinary research, information and medical sciences, and innovative materials.

**[Project for Outstanding Next Generation Ph.D. Students]**

This project provides financial support, support for strengthening research capability and support for the formation of diverse career development for truly talented doctoral students who have clear talent for innovation, aiming for practical and interdisciplinary research in the Doctoral Level Section of Integrated Course / Doctoral Course. The target of this project is all Doctoral Level Section of Integrated Course / Doctoral Course.

**[Preliminary Selection of Kanazawa University Strategic Project for Development of Doctoral Students and Research Promotion]**

This is a system that allows students, who, while still enrolled in an undergraduate course, wish to play an active role after obtaining a doctoral degree and who pledge to go on to the Doctoral Level Section of Integrated Course of Kanazawa University after finishing the Master's Level Section of Integrated Course / Master's Course, exempting the target students as preliminary awardees from admission and tuition fees while enrolled in the Master's Level Section of Integrated Course / Master's Course and allowing them to participate in various programs within the research environment.

In order to be supported by the Project in the Doctoral Level Section of Integrated Course, preliminary awardees are required to pass the selection examination after they pass the entrance examination for the Doctoral Level Section of Integrated Course of the relevant division of the graduate school. The preliminary awardees who enroll in the Master's Level Section of Integrated Course are required as a general rule to complete the course with Qualifying Examination (QE) which will be conducted in September in the second year of the course, not Master's Thesis. QE and the Entrance Examination to the Doctoral Level Section of Integrated Course will be conducted at the same time.

**2. Outline of the Support**

1) Graduate school, course and division as the target for support

| Project name   |   | Graduate school name                                    | Course name  | Division name   |
|--|---|---|--|---|
| WISE Program for Nano-Precision Medicine, Science, and Technology  |   | Graduate School of Natural Science and Technology       | Master's Level Section and Doctoral Level Section of Integrated Course           | All divisions   |
|  |   | Graduate School of Medical Sciences                     | Doctoral Course  | Division of Medicine<br>Division of Pharmacy  |
|  |   |   | Master's Course (those who go on to Doctoral Level Section of Integrated Course) | Division of Medical Science   |
|  |   |   | Master's Level Section and Doctoral Level Section of Integrated Course           | Division of Pharmaceutical Sciences<br>Division of Health Sciences  |
|  |   | Graduate School of Advanced Preventive Medical Sciences | Doctoral Course  | Division of Advanced Preventive Medical Sciences  |
|  |   | Graduate School of Frontier Science Initiative          | Master's Level Section and Doctoral Level Section of Integrated Course           | All divisions   |
| KU Doctoral Fellowship Project for Science & Technology  | Fellowship Project/ Bottom-up type for Graduate School of Frontier Science Initiative                     | Graduate School of Frontier Science Initiative          | Doctoral Level Section of Integrated Course                                      | All divisions   |
|  | Fellowship Project/ Informatics and AI for interdisciplinary research in information and medical sciences | Graduate School of Natural Science and Technology       | Doctoral Level Section of Integrated Course                                      | Division of Electrical Engineering and Computer Science<br>Division of Mechanical Science and Engineering |
|  |   | Graduate School of Medical Sciences                     | Doctoral Course  | Division of Medicine<br>Division of Pharmacy  |
|  |   | Graduate School of Medical Sciences                     | Doctoral Level Section of Integrated Course                                      | Division of Pharmaceutical Sciences<br>Division of Health Sciences  |
|  | Graduate School of Advanced Preventive Medical Sciences   | Doctoral Course   | Division of Advanced Preventive Medical Sciences                                 |   |
| Fellowship Project/ Innovative materials field   |   | Graduate School of Natural Science and Technology       | Doctoral Level Section of Integrated Course                                      | All divisions   |
| Project for Outstanding Next Generation Ph.D. Students   |   | All graduate schools                                    | Doctoral Level Section of Integrated Course / Doctoral Course                    | All divisions   |
| Preliminary Selection of Kanazawa University Strategic Project for Development of Doctoral Students and Research Promotion |   | All graduate schools                                    | Master's Level Section of Integrated Course / Master's Course                    | All divisions   |

## 2) Contents of financial support

The financial support provided by each project is shown in the following table.

(Apply to FY2023)

|   |                                     | WISE Program for Nano-Precision Medicine, Science, and Technology  | KU Doctoral Fellowship Project for Science & Technology                               |   |   | Project for Outstanding Next Generation Ph.D. Students   | Preliminary Selection of Kanazawa University Strategic Project for Development of Doctoral Students and Research Promotion |
|---|-------------------------------------|--|---|---|---|--|--|
|   |                                     |  | Fellowship Project/ Bottom-up type for Graduate School of Frontier Science Initiative | Fellowship Project/ Informatics and AI for interdisciplinary research in information and medical sciences   | Fellowship Project/ Innovative materials field                        |  |  |
| Support period (in principle)                                 |                                     | For 5 years consisting of 2 years of Master's Level Section of Integrated Course / Master's course and 3 years of Doctoral Level Section of Integrated Course, or for 4 years of 4-year Doctoral Course; within standard period of courses | Within standard period of Doctoral Level Section of Integrated Course                 | Within standard period of Doctoral Level Section of Integrated Course or within standard period of 4-year Doctoral Course students enrolled for 12 months or more | Within standard period of Doctoral Level Section of Integrated Course | Within standard period of Doctoral Level Section of Integrated Course or of 4-year Doctoral Course | Within standard period of Master's Level Section of Integrated Course / Master's Course                                    |
| Master's Level Section of Integrated Course / Master's Course | Grant for living expenses per month | 50,000 yen (in principle)  |   |   |   |  | —  |
|   | RA salary                           | ca. 360,000 yen per year maximum   |   |   |   |  | —  |
| Doctoral Level Section of Integrated Course / Doctoral Course | Grant for living expenses per month | 180,000 yen (in principle)   |   | 180,000 yen   |   | 180,000 yen  |  |
|   | Research fund per year              | 400,000 yen  |   | 400,000 yen   |   | 400,000 yen  |  |
|   | RA salary                           | ca. 240,000 yen per year maximum (Only for those in the first year of 4-year Doctoral Course)  |   | —   |   | —  |  |
| Support for travel expenses, etc.                             |                                     | Support unique to the project available  | Support unique to the project available   |   |   | Support unique to the project available  | —  |
| Admission fee   |                                     | Full exemption   |   |   |   |  |  |
| Tuition fee   |                                     | Full exemption   |   |   |   |  |  |

Financial support is a special case for awardees and preliminary awardees of the Project. In the case where such an awardee cancels or suspends his/her study while benefitting from an award within the WISE Program for Nano-Precision Medicine, Science, and Technology before completing his/her Doctoral Level Section of Integrated Course / Doctoral Course or if an awardee in any of the projects declines the award or preliminary selection, support may be stopped. Besides, in this case, refund of the grant for living expenses and unexecuted research funds, payment of the exempted admission fee and the exempted tuition fee may be requested.

Please note that the amount of financial support may change depending on the budget situation.

For international students selected, if he/she cannot arrive in Japan by the grant payment starting date after the selection decision, the grant for living expenses equivalent to the period of non-arrival will not be paid. In addition, research funds can be used only after arriving in Japan.

## 3. Application Requirements

### 1) Number of students to be selected

The number of students to be selected is described in the following table.

Applicants have to confirm their qualifications for application stipulated in 2) and choose the preferred project at the time of application. Applicants should be aware that the applicant's wishes may not be met depending on the content of his/her research plan.

| WISE Program for Nano-Precision Medicine, Science, and Technology | KU Doctoral Fellowship Project for Science & Technology  |   |   | Project for Outstanding Next Generation Ph.D. Students | Preliminary Selection of Kanazawa University Strategic Project for Development of Doctoral Students and Research Promotion |
|---|--|---|---|--|--|
|   | Fellowship Project/ Bottom-up type for Graduate School of Frontier Science Initiative  | Fellowship Project/ Informatics and AI for interdisciplinary research in information and medical sciences | Fellowship Project/ Innovative materials field  |  |  |
| 12  | 21<br>(breakdown)<br>10 newly supported in FY2023 (note 1)<br>7 supported for vacancy in FY2022 (note 2)<br>4 supported for vacancy in FY2021 (note 3) | 10<br>(breakdown)<br>7 newly supported in FY2023 (note 1)<br>3 supported for vacancy in FY2021 (note 3)   | 22<br>(breakdown)<br>10 newly supported in FY2023 (note 1)<br>2 supported for vacancy in FY2022 (note 2)<br>10 supported for vacancy in FY2021 (note 3) | 22   | ca. 30   |

Note 1: Target students: those in the first year of Doctoral Level Section of Integrated Course (enrolled for less than 12 months) or those in the second year of Doctoral Course (enrolled for 12 months or more and less than 24 months)

Note 2: those who are enrolled in Doctoral Level Section of Integrated Course and equivalent to the second year or after in Doctoral Course where the year of study is not relevant. However, the fellowship period is 24 months or less and the financial support provided is based on FY2022.

Note 3: those who are enrolled in Doctoral Level Section of Integrated Course and equivalent to the second year or after in Doctoral Course where the year of study is not relevant. However, the fellowship period is 12 months or less and the financial support provided is based on FY2022.

## 2) Qualifications for application

We welcome applicants who understand the purpose of the Project, have a high motivation for research toward obtaining a doctoral degree, have an inquisitive spirit, and after obtaining a doctoral degree, wish to contribute to the creation of a better future society with a profound academic expertise. All of the following requirements must be met.

It should be noted that since the WISE Program for Nano-Precision Medicine, Science, and Technology is for a 5-year integrated (or 4-year) doctoral course, and since the concept of preliminary selection of the Project is to support those who wish to play an active role after obtaining a doctoral degree, those who are enrolled in the Master's Level Section of Integrated Course / Master's Course but do not intend to go on to the Doctoral Level Section of Integrated Course are not qualified.

i) Those who are enrolled in the graduate school, course, division and the status specified in the table below as of April 1, 2023.

|  |   |   | M, Master's Level Section of Integrated Course / Master's Course; MD, 4-year Doctoral Course |   |   |  |  |  |              |
|--|---|---|--|---|---|--|--|--|--------------|
|  |   |   | WISE Program for Nano-Precision Medicine, Science, and Technology                            | KU Doctoral Fellowship Project for Science & Technology                               |   |  | Project for Outstanding Next Generation Ph.D. Students | Preliminary Selection of Kanazawa University Strategic Project for Development of Doctoral Students and Research Promotion |              |
|  |   |   |  | Fellowship Project/ Bottom-up type for Graduate School of Frontier Science Initiative | Fellowship Project/ Informatics and AI for interdisciplinary research in information and medical sciences | Fellowship Project/ Innovative materials field |  |  |              |
| Graduate school of Human and Socio-Environmental Studies | Master's Level Section of Integrated Course | All divisions   | —  | —   | —   | —  | —  | ✓ M1 (note1)   |              |
|  | Doctoral Level Section of Integrated Course | Division of Human and Socio-Environmental Studies       | —  | —   | —   | —  | ✓  | —  |              |
| Graduate School of Natural Science and Technology        | Master's Level Section of Integrated Course | All divisions   | ✓ M1 (note1)   | —   | —   | —  | —  | ✓ M1 (note1)   |              |
|  | Doctoral Level Section of Integrated Course | Division of Mathematical and Physical Sciences          | —  | —   | —   | ✓ (note2)                                      | ✓ (note2)  | ✓  | —            |
|  |   | Division of Material Chemistry                          |  |   | —   |  |  |  |              |
|  |   | Division of Mechanical Science and Engineering          |  |   | ✓ (note2)   |  |  |  |              |
|  |   | Division of Electrical Engineering and Computer Science |  |   | ✓ (note2)   |  |  |  |              |
|  |   | Division of Environmental Design                        |  |   | —   |  |  |  |              |
|  |   | Division of Natural System                              |  |   | —   |  |  |  |              |
| Graduate School of Medical Sciences                      | Master's Course                             | Division of Medical Science                             | ✓ M1 (note1)   | —   | —   | —  | —  | ✓ M1 (note1)   |              |
|  | Doctoral Course                             | Division of Medicine                                    | ✓ MD1 (note1)  | —   | ✓ MD2 or later (note2)  | —  | ✓  | —  |              |
|  |   | Division of Pharmacy                                    | —  | —   | —   | —  | —  | —  |              |
|  | Master's Level Section of Integrated Course | Division of Pharmaceutical Sciences                     | ✓ M1 (note1)   | —   | —   | —  | —  | —  | ✓ M1 (note1) |
|  |   | Division of Health Sciences                             | —  | —   | —   | —  | —  | —  | —            |
|  | Doctoral Level Section of Integrated Course | Division of Pharmaceutical Sciences                     | —  | —   | ✓ (note2)   | —  | —  | ✓  | —            |
| Division of Health Sciences                              |   | —   | —  | —   | —   | —  | —  | —  |              |
| Graduate School of Advanced Preventive Medical Sciences  | Doctoral Course                             | Division of Advanced Preventive Medical Sciences        | ✓ MD1 (note1)  | —   | ✓ MD2 or later (note2)  | —  | ✓  | —  |              |
| Graduate School of Frontier Science Initiative           | Master's Level Section of Integrated Course | All divisions   | ✓ M1 (note1)   | —   | —   | —  | —  | ✓ M1 (note1)   |              |
|  | Doctoral Level Section of Integrated Course | All divisions   | —  | ✓ (note2)   | —   | —  | ✓  | —  |              |
| Graduate school of Law                                   | Master's Course                             | Division of Law and Politics                            | —  | —   | —   | —  | —  | ✓ M1 (note1)   |              |

Note 1: Only for those enrolling in April, 2023.

Note 2: Read and confirm the conditions for each quota for adoption specified in 3. Application Requirements, 1) Number of students to be selected.

ii) Those who can affirm compliance with the matters stipulated in 7. Obligations of the Awardee.

iii) Those who have obtained the consent of the supervisor (planned).

iv) Those who meet the qualifications for application for DC1 and/or DC2 Research Fellowship for Young Scientists of the Japan Society for the Promotion of Science (JSPS) must apply at least once. Those who did not succeed in the past must apply for DC2 in the next fiscal year if possible.

v) Those who are an awardee of the KU Doctoral Fellowship Project for Science & Technology or the Project for Outstanding Next Generation Ph.D. Students or the Preliminary Selection of Kanazawa University Strategic Project for Development of Doctoral Students and Research Promotion must intend to be involved in science and technology and the creation of innovation in Japan after obtaining a doctoral degree. In the case of international students, they must pledge that they are to be employed as research and development personnel or professional at a Japanese company, university, research entity, etc. (including overseas subsidiary) or an internationally affiliated company in Japan for 3 years or more after completing Kanazawa University Graduate School.

Note: if this condition is not found to be met at the time of completion, the grant for living expenses will have to be refunded, and payment of the exempted admission fee and the exempted tuition fee will have to be requested in principle.

vi) Notwithstanding the above, those who fall under any of the following categories are not qualified to apply.

a) Restrictions on double receipts

Those who receive the financial support from the following sources cannot receive support from the Project. Please note that the conditions for not being eligible to apply differ between the WISE Program for Nano-Precision Medicine, Science, and Technology, the KU Doctoral Fellowship Project for Science & Technology and the Project for Outstanding Next Generation Ph.D. Students.

However, even if a potential applicant has an income from scholarships, etc., that fall under the restrictions on double receipts at the time of application, the application requirements may be met as of April 1, 2023 by declining the receipt of the said scholarships, etc., to enable him/her to apply for the Project.

Further, note that if a potential applicant receives or will receive a scholarship as financial support and if the said scholarship does not allow double receipt of financial support, the rules and regulations of the said scholarship will apply. Therefore, it is the responsibility of an applicant to check with the said scholarship concerned whether there are any restrictions regarding double receipt of financial support prior to applying for the Project. When the Project selects such an applicant as a recipient of support of the Project, he/she must take appropriate action such as declining the said scholarship.

[WISE Program for Nano-Precision Medicine, Science, and Technology]

Those who fulfill any of the following conditions cannot receive the grant for living expenses for the Doctoral Level Section of Integrated Course / Doctoral Course:

- Those who receive research incentives from the Research Fellowship for Young Scientists (DC) of the Japan Society for the Promotion of Science (JSPS);
- International students receiving support from the Japanese Government (MEXT) Scholarships;
- Those who receive a scholarship from the Japan Student Services Organization (JASSO);
- International students who receive the JASSO Honors scholarship;
- International students receiving support such as a scholarship from their home countries;
- Those who receive a Kanazawa University scholarship, etc. (mainly for the purpose of support for living expenses);
- Working part-time (with some exceptions such as TA and RA).

[KU Doctoral Fellowship Project for Science & Technology / Project for Outstanding Next Generation Ph.D. Students]

- Those who receive research incentives from the Research Fellowship for Young Scientists (DC) of the Japan Society for the Promotion of Science (JSPS);
- International students receiving support from the Japanese Government (MEXT) Scholarships;
- International students receiving support such as a scholarship from their home countries;
- Those who receive a Kanazawa University scholarship, etc. (mainly for the purpose of support for living expenses);
- Adult students who fall under one of the following:
  - Those who earn stable income such as a salary and executive compensation at a sufficient level (2.4 million yen/year) as living expenses from the university or company to which they belong;
  - Those who do not receive a sufficient amount of living expenses (based on 2.4 million yen/year) even though there is a system that allows them to receive such an allowance from the company, etc., to which they belong.

b) Those who are currently awardees of the KU Doctoral Fellowship Project for Science & Technology / Project for Outstanding Next Generation Ph.D. Students at the time of application.

c) Those who will be on leave of absence from April 1, 2023.

#### **4. Application Procedure**

##### 1) Application method

Please apply by sending an e-mail with a set of documents attached.

- The title of your e-mail (subject line) should be "Application documents for Kanazawa University Strategic Project for Development of Doctoral Students and Research Promotion".
- All the documents should be combined into one file (PDF file).
  - \* Do not send us separate document files.
- The name of the file should be your full name.

##### 2) Application documents

- Application Form A;
- Consent Form (Application Form B);
- Research Proposal Document (Application Form C);
- Entrance examination ticket (copy) for the relevant division of the graduate school;

Note: Only for those who are planning to enroll on April 1, 2023. Furthermore, those who plan to apply to or take an entrance examination hereafter and have not yet completed printing his/her entrance examination ticket at the time of application have to clearly state this in the text of the email when submitting the application documents, and afterward submit the entrance examination ticket (copy) as soon as you print it.

##### 3) Application period

12/23/2022 ~ 1/12/2023.

Only those applications that arrive by 17:00 on the last day will be accepted.

##### 4) Submission destination

Educational and Student Affairs Division, Educational and Student Affairs Department

E-mail: jisedai[at]adm.kanazawa-u.ac.jp

\*Please replace [at] with @.

#### **5. Selection Method**

Selection of the Project will be performed by written examination and interview.

It should be noted that in the written examination, for those enrolling on April 1, 2023, the results of the graduate school enrollment entrance examination for the Doctoral Level Section of Integrated Course / Doctoral



Course or the Master's Level Section of Integrated Course / Master's Course' conducted by the relevant division of the graduate school will be referred to.

The selection will be decided by comprehensive evaluation of the results of the written examination and interview.

- Primary selection (written examination)

The candidate's research plan, contents, achievements, etc., enthusiasm to participate in the Project and future career plan as described in the application documents, and academic capability based on the results of the entrance examination of the relevant division of the graduate school will be evaluated.

The result of the primary selection will be notified to the examinees via the e-mail at the addresses stated in the application documents by the end of January, 2023.

- Secondary selection (interview)

For those eligible for the secondary selection, an interview will be conducted based on the points described in the Research Proposal Document (Application Form C). An Interview consists of a presentation and a question-and-answer session.

Note: In the context of preventing the spread of COVID-19, an interview may be conducted using a Web communication tool. Details will be notified to the examinees.

## 6. Announcement of the Selection Result

The result of the selection will be notified to the examinees via the e-mail at the addresses stated in the application documents by March 7, 2023.

## 7. Obligations of Awardees

Awardees are obliged to fulfil the following items. If the Project finds that they have failed to fulfil obligations of awardees, or if the Project finds that it is not appropriate to continue the support based on the report referred to in 4), the Project may take action such as suspending the support, cancelling the award or demanding the refund of the financial support.

- 1) Awardees are to concentrate on their study and research, understanding the principle of the Project and being fully aware that they will be supported by public funds.
- 2) Awardees are to willingly participate in the programs for improving their research capability and career development conducted by Kanazawa University.
- 3) Awardees of the WISE Program for Nano-Precision Medicine, Science, and Technology must acquire the credits prescribed by the Program in addition to those required by the graduate school to which they belong.
- 4) Awardees are to report the progress and the results of the research every fiscal year in the prescribed format.
- 5) Awardees are to cooperate with various surveys, questionnaires, and follow-ups conducted by the Japan Science and Technology Agency (JST) and Kanazawa University.
- 6) Awardees are to acknowledge the support of the Project, when they publish the research results obtained thanks to the support of the Project.
- 7) Awardees are to implement tax procedures related to the grant for living expenses and RA salaries. **Under the Income Tax Act, a grant (such as a fellowship) for living expenses is taxable as "miscellaneous income" and a final tax return is required. If the awardee is dependent on a guardian (his/her parent, for example), etc., the treatment of dependent in health insurance, dependent allowance, etc. may change, so he/she should take appropriate measures himself/herself (inquiries to the appropriate person at the parent's or guardian's workplace may be necessary).**
- 8) In addition, awardees are to comply with various other matters stipulated by the relevant project.

## 8. Personal Information

- The name, address, and other personal information described in the application documents will be used for selection based on documentation and interview, the announcement of the selection results and work related to the Project.

- Personal information such as examination results used for the selection will be used for aggregation and analysis of selection results and for research on the student selection method.
- When selecting applicants for the Project, the materials submitted for the entrance examination at the graduate school will be used.
- The names and affiliations of the students selected may be announced on the websites and in printed materials such as various reports.
- Photographs of classes, events, etc., may be published in printed materials such as various reports and on websites as a record of the Project activities.

## 9. Others

### 1) Application for exemption from admission fee (deferral of collection) and tuition fee

Those who apply for the Project should follow the procedure below since the admission fee and tuition fee will be fully exempted if the award is made.

- Admission fee (for those who plan to enroll on April 1, 2023 (excluding those who are currently enrolled at Kanazawa University))

Be sure to follow the procedure for deferment of admission fee collection (or exemption from admission fee) and do not pay the admission fee until the selection result is disclosed. Those who have applied for admission fee exemption must apply for its cancellation as soon as they are notified that they are successfully selected by the Project.

- Tuition fee (for those who plan to enroll on April 1, 2023 and those who are currently enrolled at Kanazawa University)

Applicants are not prevented from applying for tuition fee exemption. In addition, those who have applied for tuition fee exemption must apply for its cancellation as soon as they are notified that they are successfully selected by the Project.

#### [Application method]

Applicants should check the following website and submit their personal records (Forms 1-1 and 1-2).

When submitting, state "currently applying for Kanazawa University Strategic Project for Development of Doctoral Students and Research Promotion" at the top of the form.

- Admission fee exemption/admission fee collection deferment website  
[https://www.kanazawa-u.ac.jp/campuslife/economic/exemption\\_grace](https://www.kanazawa-u.ac.jp/campuslife/economic/exemption_grace)
- Tuition fee exemption website  
[https://www.kanazawa-u.ac.jp/campuslife/economic/tuition\\_waiver/tuition\\_waiver-2](https://www.kanazawa-u.ac.jp/campuslife/economic/tuition_waiver/tuition_waiver-2)

### 2) Inquires

Educational and Student Affairs Division, Educational and Student Affairs Department

Second floor of the Administration Office, Kanazawa University

Postal Code: 920-1192

Kakuma-machi, Kanazawa City, Ishikawa Prefecture, Japan

E-mail: [jisedai\[at\]adm.kanazawa-u.ac.jp](mailto:jisedai[at]adm.kanazawa-u.ac.jp)

\*Please replace [at] with @.

Website: <https://phd.w3.kanazawa-u.ac.jp/>

### 3) Others

- Application documents will not be returned. Incomplete application documents will not be accepted.
- If any of the contents of the submitted documents is revealed to be false, the award may be canceled even after the selection is finalized. In such a case, a full refund of the financial support provided and payment of the exempted admission fee and the exempted tuition fee will be imposed.
- Correspondence to the applicant is done via e-mail at the address stated in the application documents. Therefore, the e-mail address must be an address that can reliably receive e-mails from Kanazawa University ([kanazawa-u.ac.jp](mailto:kanazawa-u.ac.jp)). Mobile phone addresses are not accepted since attachments may be sent.

# Guidelines for the WISE Program for Nano-Precision Medicine, Science, and Technology

The purpose of the WISE Program for Nano-Precision Medicine, Science, and Technology (hereinafter, the Program) is to foster doctoral students (highly knowledgeable professionals) who will be able to lead the creation and utilization of new knowledge, create value that will lead the next generation, and bring innovation to society by taking on the challenge of solving social issues. To this end, we will select and support individuals who have the motivation and aptitude set forth in the requirements of the Program.

## 1. Outline of the Program

In 2015, "Precision Medicine" was proposed in the United States and has been attracting worldwide attention. Precision medicine aims at optimal treatment at the individual patient level by genetic analysis using the latest technology. However, genetic analysis alone is not sufficient and many diseases have not been overcome yet.

Kanazawa University, by leveraging the strength of nanoprobe microscopes, is a pioneer in establishing a hub for interdisciplinary and systematic education and research to "create innovative prevention, diagnosis, and treatment methods by developing devices and materials with nano-level controls," leading the creation and utilization of new knowledge referred to as **nano-precision medicine/nano-precision science and technology** that can also be applied to personalized medicine, and will produce scientists around the world who bring innovation to society.

Therefore, the Program focuses on five global medical issues, i.e. cancer, lifestyle-related diseases, neurological diseases, diseases caused by fine particles, and diseases caused by nanomaterials, and fosters students to be trained as **nano-precision medicine professionals who are strong in technology** as well as **nano-precision science and technology professionals who are strong in medicine** who will be responsible for creating innovative prevention, diagnosis, and treatment methods by promoting understanding and control of these diseases at the nano level.

## 2. Profile of individuals to be fostered

The Program fosters students to become outstanding researchers with a doctoral degree, **highly knowledgeable professionals**, who have **a high degree of expertise** in nano-measurement with **the ability to take a comprehensive view** to understand various life phenomena at the nano level and **creativity** for new innovations in nano-precision medicine, science and technology. Further, they should have **social implementation skills** to disseminate the results to society. Specifically, the Program aims to develop scientists with the following abilities:

- i) Professionals with multidisciplinary in medicine and science and technology who are active beyond existing boundaries such as pharmaceutical health sciences and science and technology;
- ii) Specialists who are familiar with the practices at each stage of "prevention, diagnosis, and treatment;"
- iii) Highly knowledgeable professionals who play a key role in a group with diverse backgrounds.

The Program fosters **nano-precision medicine professionals who are strong in technology** and **nano-precision science and technology professionals who are strong in medicine** with these three qualifications.

### [The desired student profile]

The Program widely recruits students from the 4 Graduate Schools: The Graduate School of Natural Science and Technology, the Graduate School of Medical Sciences, the Graduate School of Advanced Preventive Medical Sciences, and the Graduate School of Frontier Science Initiative and selects students demonstrating the following motivations and aptitudes:

- ◆ Those with a strong interest and willingness to study nanoscience and nanotechnology and with basic academic ability in fields related to science, technology, medicine, medical science, pharmacy, pharmaceutical science, health sciences, or other academics;
- ◆ Those with a broad perspective and creativity, rich humanity and social skills, high ethical standards, and motivation to solve health problems;
- ◆ Those who are interested in the latest scientific and technological trends, want to change society through innovation and new businesses, and aim to contribute to society;
- ◆ Those who are not bound by existing structures such as countries, regions, societies and institutions or specialized academic fields but who have a tolerant attitude toward different cultures and other people, as well as having excellent communication skills. They must be multifaceted and logical even in fields with different specialties and be able to engage in cross-cultural exchange activities.

### 3. Requirements for completion

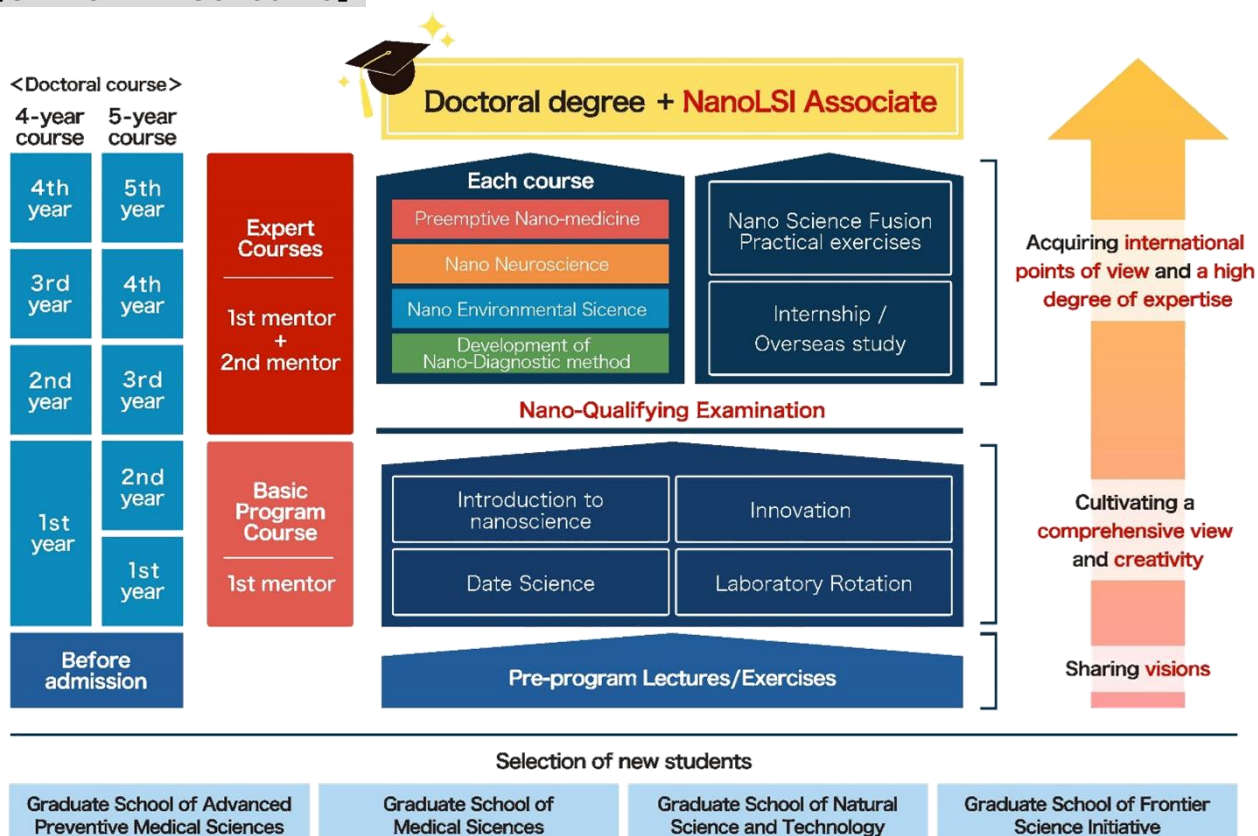
The curriculum of the Program consists of a "Basic Program Course" that cultivates creativity and a comprehensive view of nanoscience, and "Expert Courses" that cultivate international points of view and a high degree of expertise.

In addition to the requirements for completion by the Graduate School to which the students of the Program belong, students are required to acquire the credits imposed by the "Basic Program Course" and "Expert Courses," and to pass the doctoral thesis dissertation examination and final examination.

Those who have successfully completed the Program will be awarded a doctoral degree as stipulated in the Rules of Degree of Kanazawa University, and completion of the Program will be stated in each diploma.

- ◆ Title to be added to the diploma: Completion of the WISE Program for Nano-Precision Medicine, Science, and Technology

#### [Curriculum Schedule]



## [Required courses for the Program] (New Enrollees in FY2023 or later)

### [5-Year Integrated Course]

#### (Master's Level Section of Integrated Course / Master's Course)

| Course               | Subject  | Credit(s) awarded |
|----------------------|--|-------------------|
| Basic Program Course | Introduction to Nano Precision Medicine, Science and Engineering | 1 credit          |
|                      | Introduction to Nano Science                                     | 2 credits         |

#### (Doctoral Level Section of Integrated Course)

| Course         | Subject                                  | Credit(s) awarded |
|----------------|--|-------------------|
| Expert Courses | Nano Science Fusion Practical Exercises  | 1 credit          |
|                | Required Subjects for Each Expert Course | 2 credits         |

### [4-Year Doctoral Course]

| Course               | Subject  | Credit(s) awarded |
|----------------------|--|-------------------|
| Basic Program Course | Introduction to Nano Precision Medicine, Science and Engineering | 1 credit          |
|                      | Introduction to Nano Science                                     | 2 credits         |
|                      | Laboratory Rotation  | 1 credit          |
| Expert Courses       | Nano Science Fusion Practical Exercises                          | 1 credit          |
|                      | Required Subjects for Each Expert Course                         | 2 credits         |

- In addition to the above, students can take elective courses to further deepen their studies.

In the Program, students are required to take and pass the Nano-Qualifying Examination in order to proceed from the "Basic Program Course" to the "Expert Courses" and from the Master's Level Section of Integrated Course to the Doctoral Level Section of Integrated Course. The Nano-Qualifying Examination consists of a written examination imposed by the Program and Qualifying Examination (QE) conducted by the relevant graduate school.

#### [Pre-program lectures/exercises]

Pre-program lectures will be held for students selected for the Program. The selected students must attend either Thursday, March 16 through Friday, March 17, 2023 (to be conducted in Japanese), or the two-day program in October 2023 or later (to be conducted in English).

## 4. Financial Support

Based on the purpose of the WISE Program, the Program will provide the following substantial financial support to students who have pledged to various matters specified separately by Kanazawa University as an environment in which they can devote themselves to education and research.

### 1) Full exemption of entrance fee and tuition fee

All students enrolled in the Program are fully exempted from entrance and tuition fees.

Please note that the tuition fee exemption is limited to the standard period of study stipulated in the Graduate School Rules for Kanazawa University.

## 2) Benefit-type grant for living expenses

In principle, a grant for living expenses as described below will be provided to students who are awardees of the Program with excellent records but only within the standard period of study.

Students of the Master's Level Section of Integrated Course / Master's Course, 50,000 yen per month

Students of the Doctoral Level Section of Integrated Course / Doctoral Course, 180,000 yen per month

The payment of the grant for living expenses, including its amount, will be decided by review every year based on the "Detailed Rules for Kanazawa University's WISE Program's Education and Research Support Scholarship."

## 3) Research funds

Research funds are provided to students of the Doctoral Level Section of Integrated Course / Doctoral Course.

## 4) Research Assistant salary

A Research Assistant salary will be paid to students of the Master's Level Section of Integrated Course / Master's Course or the first-year students of Doctoral Course who are hired as research assistants for research projects of the Program staff.

## 5) Research travel expenses

Research travel expenses for internships, study abroad, or for presentations of research results at international conferences will be provided within a certain range.

Note: Those described in 2), 3), 4) and 5) may change depending on the budget status of the Program.

## **5. Program Staff**

80 Staff members (as of December, 2022)

Website: <https://nano-wise.w3.kanazawa-u.ac.jp/>

## **6. Contact Information**

WISE Promotion Office, Kanazawa University

Postal Code, 920-1192

Kakuma-machi, Kanazawa city

2nd Floor of the Administration Office, Kanazawa University Kakuma Campus

Tel: +81-76-264-5959

E-mail: wise-ku[at]adm.kanazawa-u.ac.jp

\*Please replace [at] with @.