

Doctoral talents Envision a Future.

HaKaSe⁺

Kanazawa University Strategic Project
for Development of Doctoral Students and Research Promotion

**Project Introduction
&
Explanation of the call for applications for Selection in April, 2025**

For details, please be sure to confirm the [Application Guidelines, April 2025](#).

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HaKaSe⁺ Contents to be Targeted for Career Development and Nurturing
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How to solve the current issues in Japan as well as all over the world

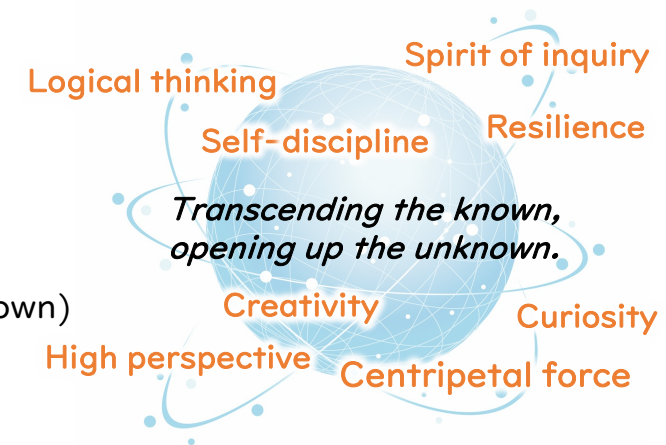
- Economic competition and widening economic inequalities
- Changes in social and industrial structures
- Increasingly uncertain social conditions
- Change in values triggered by the unprecedented COVID-19 Pandemic, etc.

Social issues are piling up due to complex and multi-layered causes

It is essential to have talents who can bring together 'knowledge' to create new value and pioneer future societies.

Expectations for doctoral talents

- Deep expertise and a broad perspective
- High ability in problem-finding and problem-solving (approach to the unknown)
- Future bearers of innovation, a source of national strength



Society is now in great need of doctoral talents with resilience and flexibility to continue challenging on academic “questions,” and creating new solutions.

Get a PhD—Doctoral human resources action plan, MEXT – JAPAN

Published by MEXT-JAPAN on March 26, 2024



While the number of doctoral degree holders in Japan is on the decline, the Japanese government has indicated that it will provide continuous support.

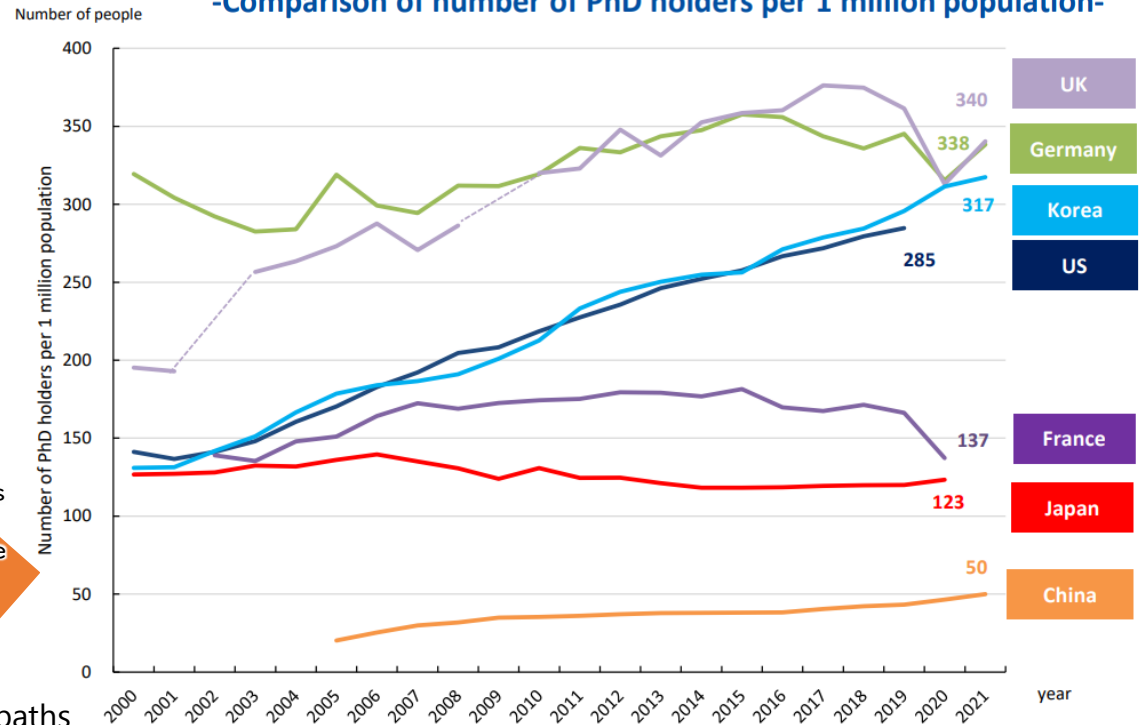
POLICY

MEXT is taking the following measures.

- ① Promoting the opening up of a wide range of career paths for doctoral human resources(DHR) in collaboration with industry
- ② Enhancing graduate school education by promoting quality assurance, internationalization, etc.
- ③ Realizing an environment so that doctoral course students can devote themselves to their research with peace of mind
- ④ Continuously implementing initiatives for increasing motivation to pursue a doctoral degree from primary and secondary education to higher education stages

Comparison with other countries

-Comparison of number of PhD holders per 1 million population-



Source: "Science and Technology Indicators, 2023," National Institute of Science and Technology Policy

Concrete Plans

1. Building diverse career paths for DHR in society
2. Graduate school reform and student support
3. Motivating students

KU is promoting two initiatives: "Accelerating the advancement of graduate school education" and "Reinforcing support for doctoral talents".

Objective and Outline of nurturing doctoral talents in HaKaSe⁺

Kanazawa University Strategic Project for Development of Doctoral Students and Research Promotion (HaKaSe⁺)

- Doctoral talents are expected to contribute to “**advance science and technology, and create innovation in Japan**” .
HaKaSe⁺ encourages excellent and aspiring students to go on to doctoral course, and expands doctoral talents qualitatively and quantitatively to **play a role in enhancing research capabilities of KU**.
- HaKaSe⁺ nurtures and produces doctoral talents who can play an active role in a variety of fields such as industry, academia and government.

Enhancement of the environment for concentration on research

Development of interdisciplinarity and internationality

Support for career development

Reinforcing financial support

Project that KU has been adopted for

MEXT “WISE Program(Doctoral Program for World-leading Innovative & Smart Education)” Accepted in FY2019

JST “SPRING : Support for Pioneering Research Initiated by the Next Generation” Accepted in FY2023

JST “BOOST: Broadening Opportunities for Outstanding young researchers and doctoral students in STrategic areas” Accepted in FY2023

Project name	WISE Program for Nano-Precision Medicine, Science, and Technology (HaKaSe ⁺ for WISE)	SPRING Project for Doctoral Talents in Creating Novel Values (HaKaSe ⁺ for SPRING)	BOOST Project for Trailblazing AI Crossover Doctoral Talents (HaKaSe ⁺ for BOOST)	JSPS Research Fellowships for Young Scientists (DC)	International students receiving support from the Japanese Government (MEXT) Scholarships
Content of project	Degree course	Support for research and career formation	Promoting cultivation of doctoral talents and cutting-edge research and development in both AI field and emerging/integrated areas in AI field (Next-generation AI field)	Awarded to excellent young researchers in Japan	Scholarship from Japanese government (MEXT)
Target Graduate School for Support	Natural Science and Technology; Medical Sciences; Advanced Preventive Medical Sciences; Frontier Science Initiative	All Graduate Schools	All Graduate Schools	All Graduate Schools	All Graduate Schools
Course	M · D	D	D	D	M · D
Capacity	12/fiscal year	around 160 (Total for the year)	2/fiscal year	DC 1 : 700/fiscal year DC 2 : 1,100/ fiscal year (Nationwide)	Dozens/fiscal year

▲ KU is promoting unique projects under the support projects by Japanese Government to aim for producing outstanding doctoral talents.

Support project to doctoral students by KU

M, Master's Level Section of Integrated Course / Master's Course; D, Doctoral Level Section of Integrated Course; MD, 4-year Doctoral Course

1

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

Degree course

Target for Support

Natural Science and Technology, M&D;
Medical Sciences, M&D/MD;
Advanced Preventive Medical Sciences, MD;
Frontier Science Initiative, M&D

- 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.
- Based on nanoscience, this project aims to foster "nano-precision medicine professionals strong in technology" and "nano-precision science and technology professionals strong in medicine".
- [Title to be added to the diploma] Completion of WISE Program for Nano-Precision Medicine, Science, and Technology

2

SPRING Project for Doctoral Talents in Creating Novel Values

Support for research and career formation

Target for Support

All Divisions with Doctoral Level Section of Integrated Course / Doctoral Courses

- This project fosters innovative doctoral talents in KU co-educational environment through co-creation and exchanges of knowledge, who can develop their advanced expertise in diverse sectors and fields of society, and create novel values for the future.
- This project focuses on supporting excellent and aspiring doctoral students with a wide view that transcends their own research field, as well as attitude and capability to take on challenges to face social issues. These doctoral talents are expected to contribute to the progress of science and technology, and the creation of innovations not only in Japan but around the world.

Being selected students as going on to the Doctoral Level Section of Integrated Course (planned)

3

BOOST Project for Trailblazing AI Crossover Doctoral Talents

Specialize in next-generation AI research and development

Target for Support

All Divisions with Doctoral Level Section of Integrated Course / Doctoral Courses

- This project fosters doctoral talents who promote cutting-edge AI theoretical research and AI applied research in various research fields, backed by advanced AI knowledge and skills, and lead next-generation AI research and development.
- This project provides support for truly talented doctoral students having the qualifications to take on challenges in the AI academic field with an inquisitive spirit and advance creative AI research.

4

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

KU unique system for encouraging going on to doctoral course

Target for Support

All Divisions with Master's Level Section of Integrated Course / Master's Courses

- This is a system that supports students enrolling in the Master's Level Section of Integrated Course / Master's Course, who 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 KU after finishing the Master's Level Section of Integrated Course / Master's Course; they are considered as preliminary awardees.
- Preliminary awardees are entitled to exemption from admission and tuition fees while enrolled in the Master's Level Section of Integrated Course / Master's Course.

Point

- At the time of application, an applicant selects the preferred project from the projects you are eligible for applying for.
- The project in which an applicant will be selected is decided by HaKaSe⁺ based on the selection result and the content of his/her research plan.

Relation between Graduate Schools holding doctoral course and each project of HaKaSe+

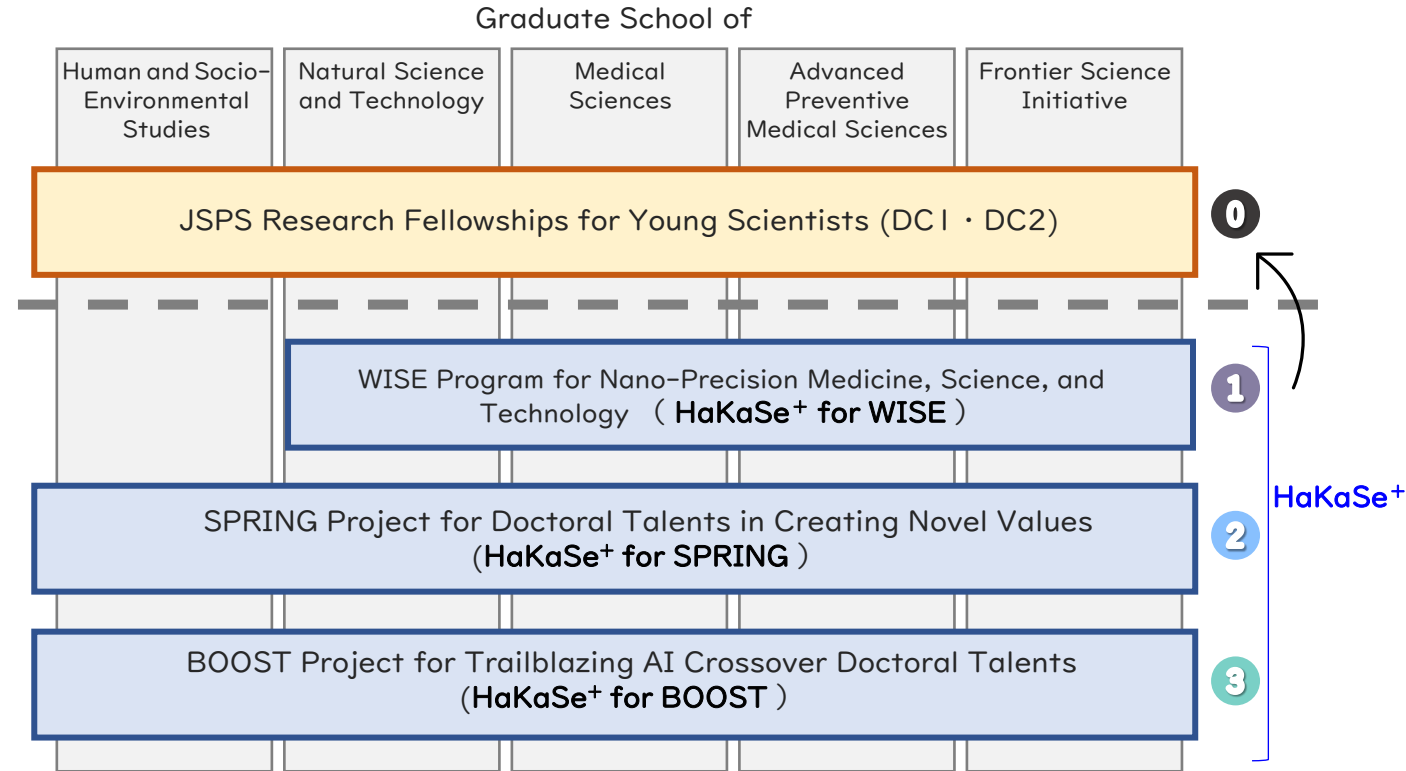
Kanazawa University
Strategic Project for
Development of Doctoral
Students and Research
Promotion (HaKaSe+)

① WISE Program for Nano-Precision
Medicine, Science, and Technology
(HaKaSe+ for WISE)
12/fiscal year

② SPRING Project for Doctoral Talents
in Creating Novel Values
(HaKaSe+ for SPRING)
around 160 (Total for the year)

③ BOOST Project for Trailblazing
AI Crossover Doctoral Talents
(HaKaSe+ for BOOST)
2/fiscal year

④ Preliminary Selection of
Kanazawa University Strategic Project
for Development of Doctoral Students
and Research Promotion
(Preliminary Selection of HaKaSe+)
ca. 10/fiscal year



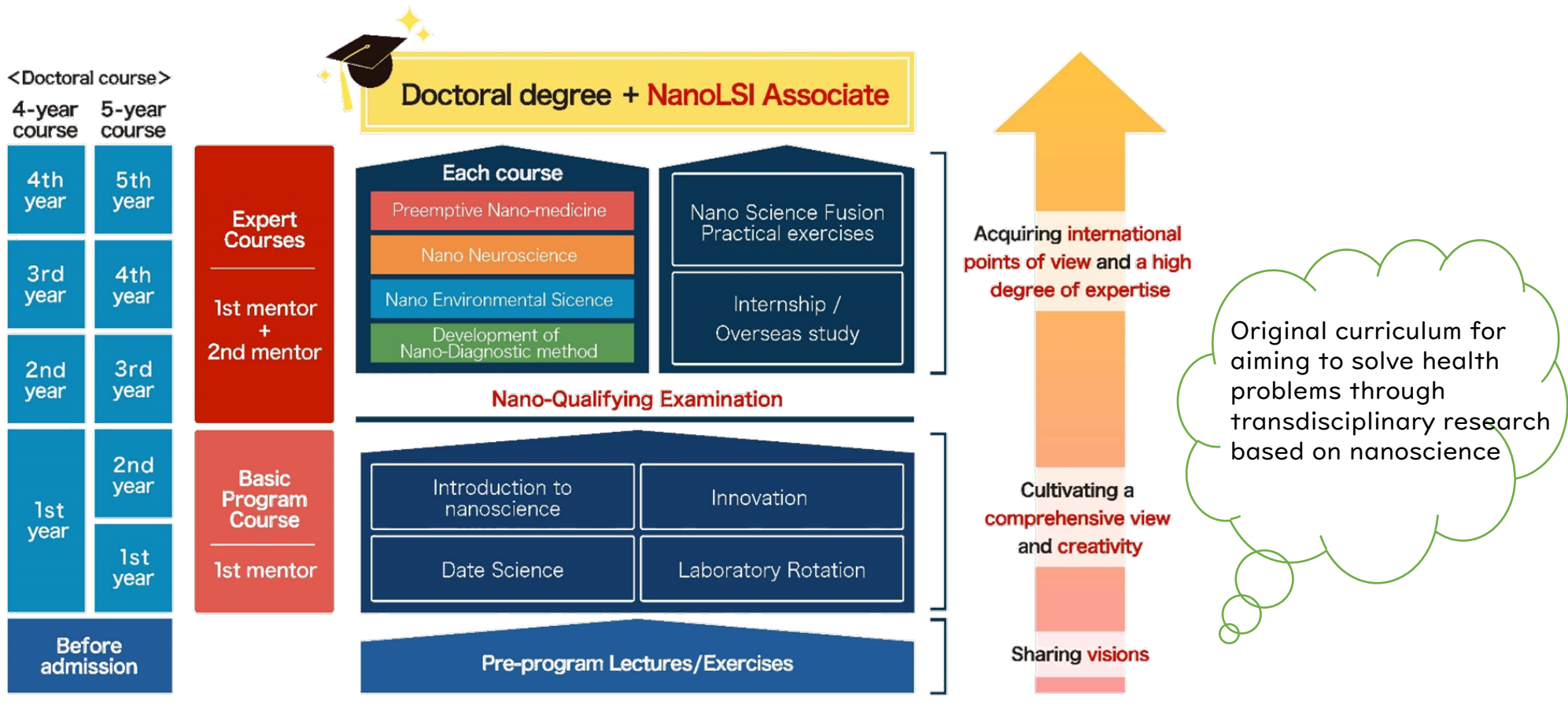
HaKaSe+ strongly encourages students selected for HaKaSe+ for WISE, HaKaSe+ for SPRING, HaKaSe+ for BOOST or Preliminary Selection of HaKaSe+ to challenge for being selected as DC I /DC2.

Contents of Financial support by each project of HaKaSe⁺

To be applied for FY2025

		JSPS Research Fellowships for Young Scientists (DC1 or DC2)	① WISE Program for Nano-Precision Medicine, Science, and Technology (HaKaSe ⁺ for WISE)	② SPRING Project for Doctoral Talents in Creating Novel Values (HaKaSe ⁺ for SPRING)	③ BOOST Project for Trailblazing AI Crossover Doctoral Talents (HaKaSe ⁺ for BOOST)	④ Preliminary Selection of Kanazawa University Strategic Project for Development of Doctoral Students and Research Promotion (Preliminary Selection of HaKaSe ⁺)
Support period (in principle)		DC1 : 3 years DC2 : 2 years	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 of 4-year Doctoral 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	200,000 yen Possibility of receiving special monthly stipends (30,000 yen per month (for up to 12 months)) in the final year, depending on the JSPS's evaluation.	180,000 yen (in principle)	180,000 yen	250,000 yen	
	Research fund per year	Grant-in-Aid for JSPS Fellows (KAKENHI) Up to 1,500,000 yen/year	400,000 yen	400,000 yen	900,000 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	—
Exemption of Admission fee		Full exemption (For those who are accepted as DC1 and enrolled in doctoral course of KU)	Full exemption	—	—	Full exemption (For those who are selected at the time of enrollment)
Exemption of Tuition fee		Full exemption (Within standard period)	Full exemption	Half exemption	Half exemption	Full exemption

WISE Program for Nano-Precision Medicine, Science, and Technology (HaKaSe+ for WISE)



Selection of new students

- Graduate School of Advanced Preventive Medical Sciences
- Graduate School of Medical Sciences
- Graduate School of Natural Science and Technology
- Graduate School of Frontier Science Initiative



AI lectures & trainings (Deep Lectures & Trainings)

The BOOST faculty members will teach advanced and in-depth knowledge of machine learning and AI to deepen students' understanding of the essence and applicability of the technology.



AI Theoretical/Practical Seminars (Advanced Lectures)

The BOOST training team will select advanced AI educational contents from overseas and provide them to students selected for HaKaSe+ for BOOST .



AI Catch-up seminar

Seminars by invited lecturers from Japan and overseas will be held to acquire the cutting-edge knowledge in the rapidly evolving field of AI research and development.

1st Seminar held on August 23, 2024 with welcoming Dr. Amari.



AI research exchanges beyond Labs

Selected students specialized in research filed with applied AI or AI theoretical research will belong to different laboratories that mainly specialize in AI theoretical research for a certain period of time for intensive research exchanges.



- Awardees are to present AI research in academic conferences and academic journals during the support period.
- Awardees are required to share the sample data, sample code, and know-how across KU when achieving research results to promote knowledge circulation and accelerate AI research at KU.



Schedule for the call for applications for Selection in April, 2025

Item	Schedule
Open the calling for application	December 24 (Tue), 2024
Application period	December 24 (Tue), 2024 - Noon on January 14 (Tue), 2025 [Must arrive]
Notification of Eligibility for Interview	by January 27 (Mon), 2025
Deadline for submitting slide data for Interview	Noon on January 28 (Tue), 2025 [Must arrive]
Interview	Conducted from early to Mid-February 2025 (including Saturdays, Sundays and public holiday)
Announcement of the Selection Result	by the end of March, 2025
Date of Adoption of HaKaSe ⁺	April 1 (Tue), 2025

You have to consult with supervisor (planned) and obtain the recommendation from him/her when you apply.

Number of students to be selected (FY2025)

<p>1 WISE Program for Nano-Precision Medicine, Science, and Technology (HaKaSe⁺ for WISE)</p>	<p>2 SPRING Project for Doctoral Talents in Creating Novel Values (HaKaSe⁺ for SPRING)</p>	<p>3 BOOST Project for Trailblazing AI Crossover Doctoral Talents (HaKaSe⁺ for BOOST)</p>	<p>4 Preliminary Selection of Kanazawa University Strategic Project for Development of Doctoral Students and Research Promotion (Preliminary Selection of HaKaSe⁺)</p>
12	ca.30	2	ca.10

Calling for applications is opened only in April

Important Notes

- All projects implemented under HaKaSe⁺ are carried out by Kanazawa University supported by the Ministry of Education, Culture, Sports, Science and Technology (MEXT), the Japan Society for the Promotion of Science (JSPS), and the Japan Science and Technology Agency (JST).
- HaKaSe⁺ is **NOT merely a scholarship program**, but provides supports for excellent doctoral students who will be responsible for the future of science, technology, and innovation **in Japan**, helping them to **devote themselves to research, cultivate interdisciplinary, internationality and broad perspectives as well as develop career** that are necessary **to become active in society with a doctoral degree**.
- HaKaSe⁺ will take action such as **suspending the support, cancelling the award or demanding the refund of all of the financial supports in the case that HaKaSe⁺ finds and confirms the fact that an awardee is in conflict with the Qualifications for application or Obligations of awardees. Awardees are to act responsibly.**

Obligations of Awardees

Common to all projects :

- Awardees are to concentrate on their study and research, present research achievements in academic conferences and academic journals, and complete doctoral course of Kanazawa University within standard period of course.
- Awardees are to participate in over half of programs in one fiscal year for improving research capability and career development, and to respond to participant surveys and follow-up.
- Awardees are to report the progress and the results of the research every fiscal year.

HaKaSe⁺ for WISE :

- Awardees must acquire the credits prescribed by HaKaSe⁺ for WISE in addition to those required for completion set by the graduate school to which they belong.

HaKaSe⁺ for BOOST :

- Awardees are to present AI research in academic conferences and academic journals during the support period.

International students selected for HaKaSe⁺ for SPRING, HaKaSe⁺ for BOOST and Preliminary Selection of HaKaSe⁺

- Awardees must pledge that they are to be employed 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 the Doctoral Level Section of Integrated Course / Doctoral Course of Kanazawa University.

Perspectives for Review

Common to all projects :

- Is applicant's research plans and contents based on the purpose of HaKaSe⁺?
- Does an applicant have sufficient research achievements to be eligible for HaKaSe⁺?
- Broad perspective and awareness of social issues that transcends applicant's own research field
- Is an applicant recognized as having a high level of motivation for research and a positive attitude toward participation in HaKaSe⁺ that is suitable for a HaKaSe⁺ awardee?
- Does an applicant understand the purpose of HaKaSe⁺ and plan a career in order to contribute to the advancement of science and technology and the creation of innovation not only in Japan but around the world after obtaining doctoral degree?

Applicants who would like to be assigned to HaKaSe⁺ for BOOST :

In addition to the above, the following points will be added.

- Does an applicant have knowledges and skills as well as research experience, and research results related to AI research?
- Does an applicant have high-motivation and qualifications to carry out Next-generation AI research?

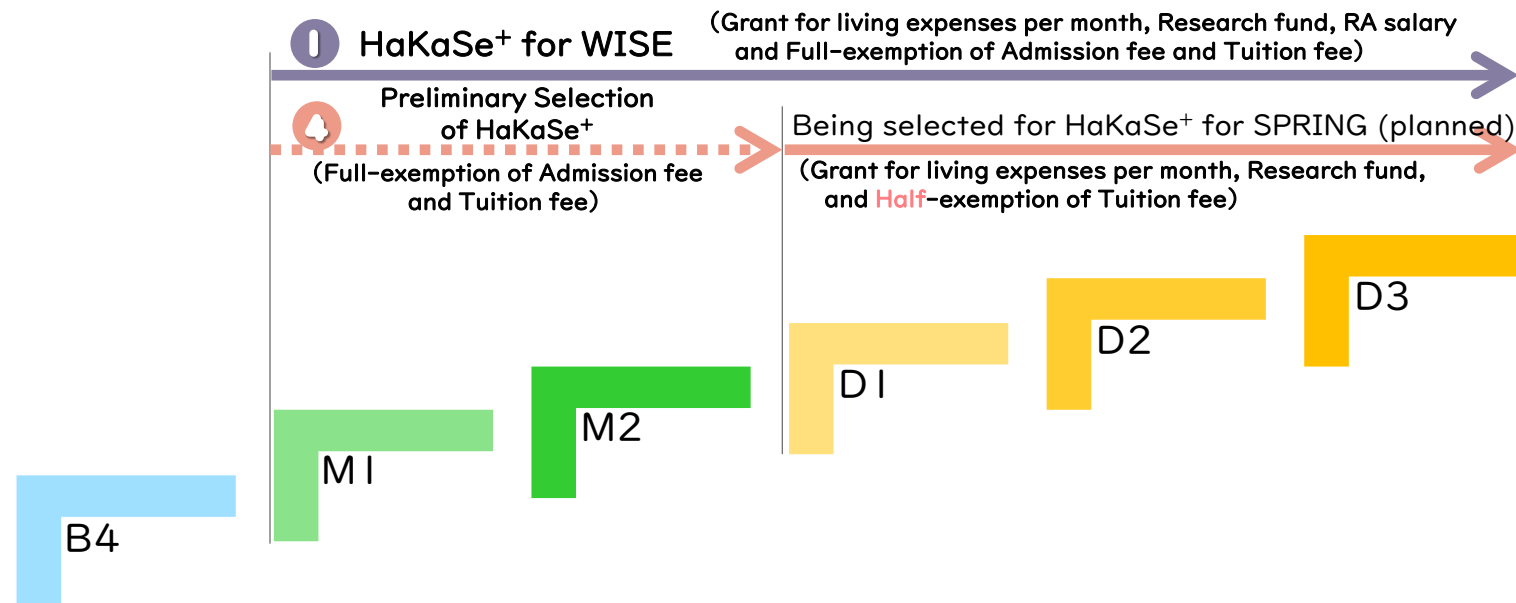
Project eligible to apply (1)

Applicants who will enroll in/go on to the Master's Level Section of Integrated Course / Master's Course in April 2025 (Entering the Doctoral Level Section of Integrated Course after 2 years)

...> **i** Eligible to apply for HaKaSe⁺ for WISE

...> **🔔** Eligible to apply for Preliminary Selection of HaKaSe⁺

...>> Being selected students through passing the selection screening of HaKaSe⁺ as going on to the Doctoral Level Section of Integrated Course (planned)



Point

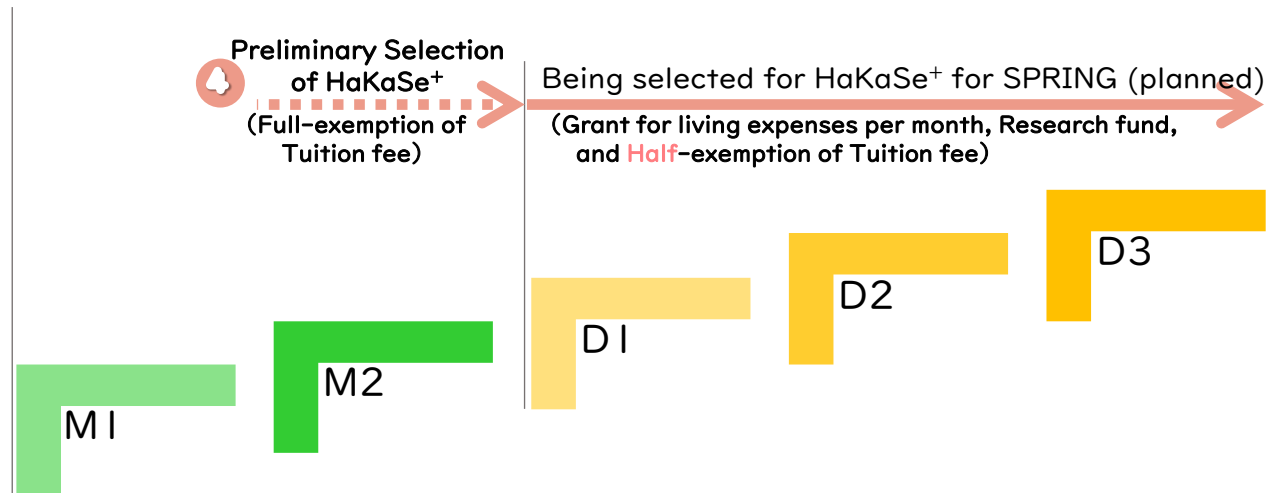
· Applicants are to pledge to go on to the Doctoral Level Section of Integrated Course and be active after obtaining doctoral degree.

Project eligible to apply (2)

Applicants who have been enrolled in the Master's Level Section of Integrated Course / Master's Course for less than 12 months in April 2025
(until just before moving on to M2)

...> Eligible to apply for Preliminary Selection of HaKaSe⁺

...>> Being selected students through passing the selection screening of HaKaSe⁺ as going on to the Doctoral Level Section of Integrated Course (planned)



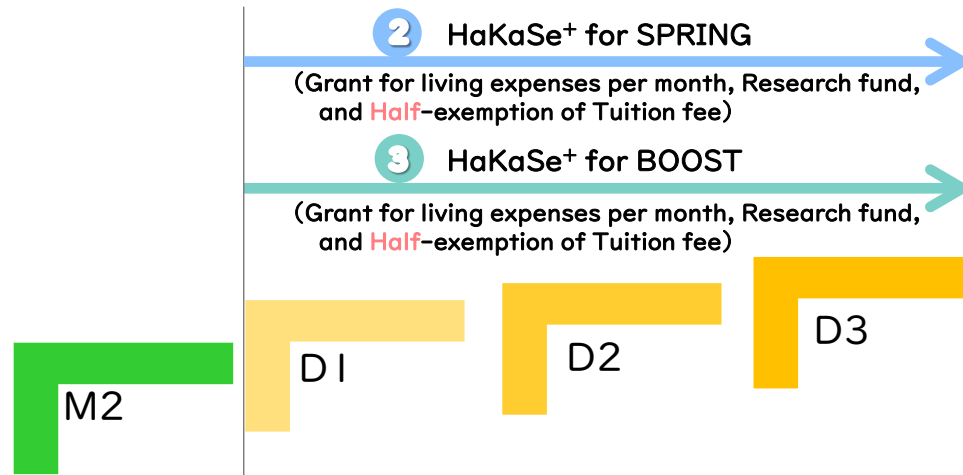
Point

- HaKaSe⁺ expand the Eligibility for applying for since the call for application for Selection in April, 2024
- Applicants are to pledge to go on to the Doctoral Level Section of Integrated Course and be active after obtaining doctoral degree.
- NOT to be able to apply for HaKaSe⁺ for WISE, the degree course of 5-year integrated doctoral course or 4-year Doctoral Course

Project eligible to apply (3)

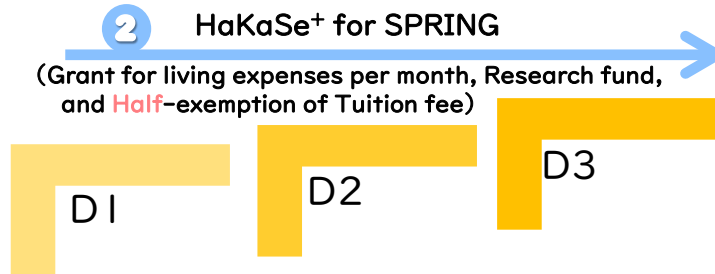
Applicants who will enroll in/go on to the Doctoral Level Section of Integrated Course in April 2025

- ...> ② Eligible to apply for HaKaSe⁺ for SPRING
- ...> ③ Eligible to apply for HaKaSe⁺ for BOOST



Applicants who have been already enrolling in the Doctoral Level Section of Integrated Course

- ...> ② Eligible to apply for HaKaSe⁺ for SPRING



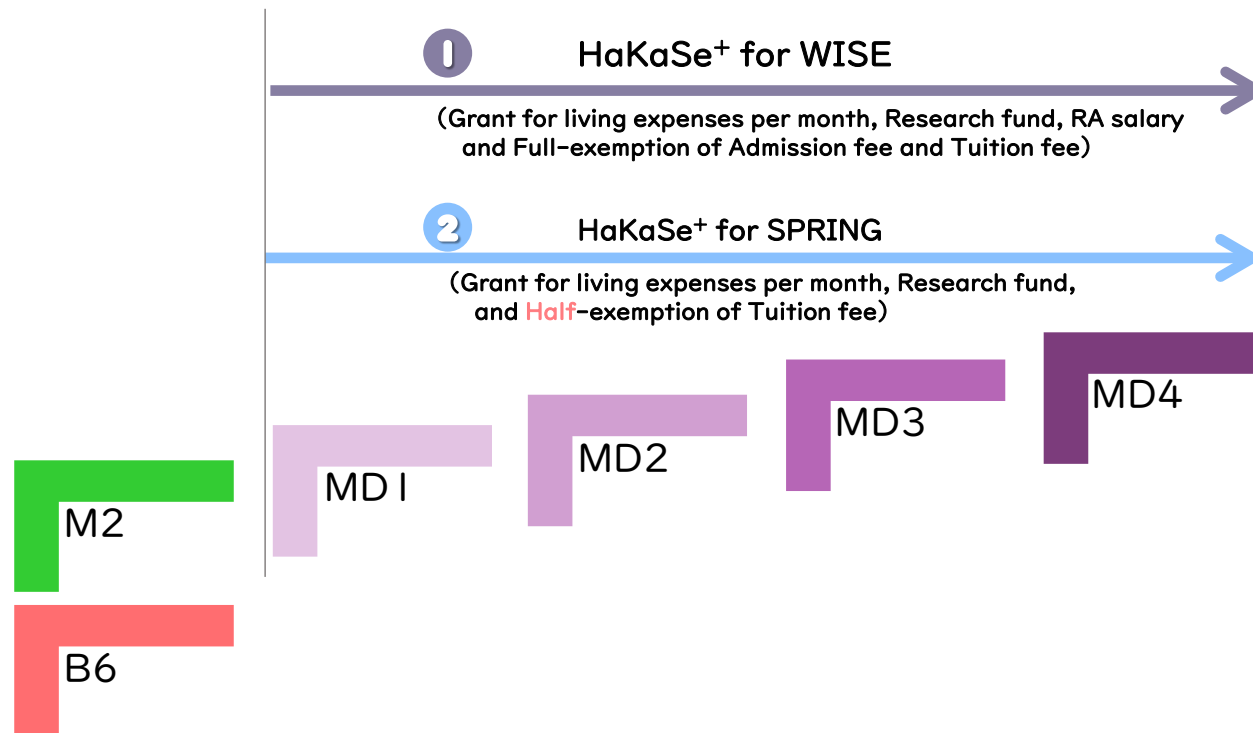
Point

- NOT to be able to apply for HaKaSe⁺ for WISE, the degree course of 5-year integrated doctoral course or 4-year Doctoral Course
- Only applicants who enroll in/go on to the Doctoral Level Section of Integrated Course in April 2025 are eligible to apply for HaKaSe⁺ for BOOST.

Project eligible to apply (4)

Applicants who will enroll in/go on to the 4-year Doctoral Course in April 2025

- ...> ① Eligible to apply for HaKaSe⁺ for WISE
- ...> ② Eligible to apply for HaKaSe⁺ for SPRING



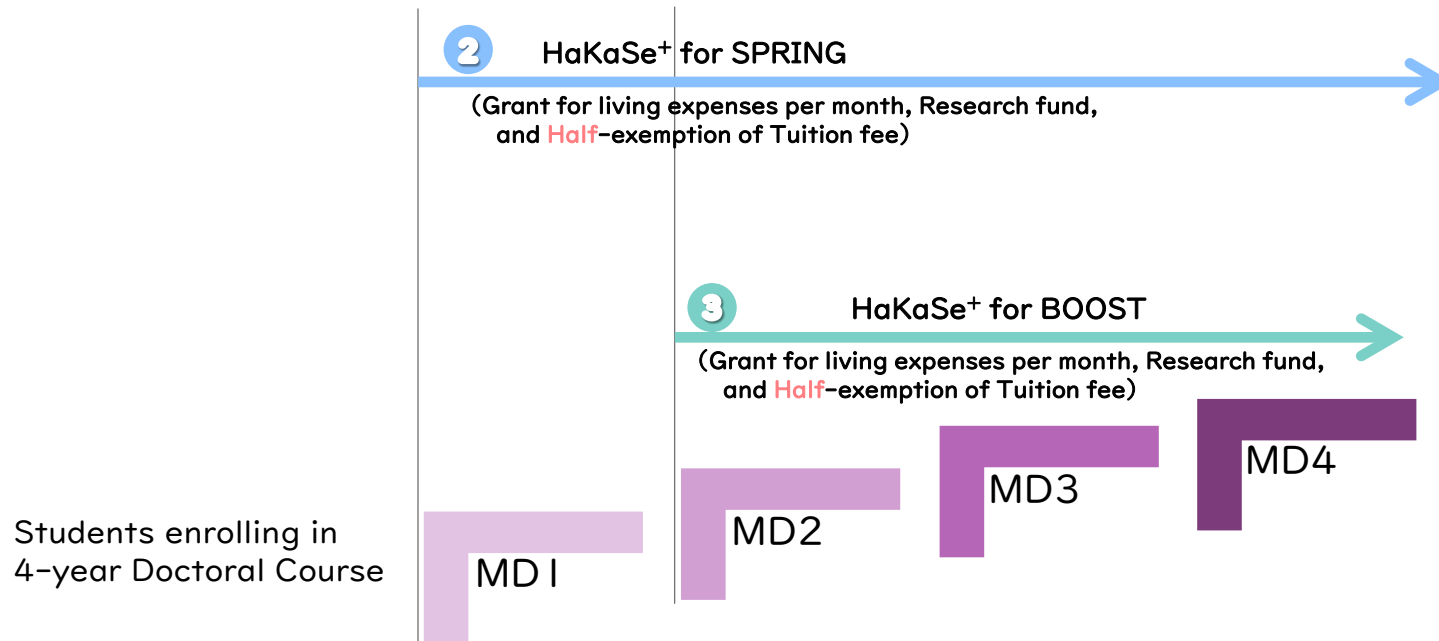
Point

·Applicants are NOT eligible to apply for HaKaSe⁺ for BOOST, which supports selected students from the 2nd year of the 4-year Doctoral Course.

Project eligible to apply (5)

Applicants who have been already enrolling in the 4-year Doctoral Course

- ...> 2 Eligible to apply for HaKaSe⁺ for SPRING
- ...> 3 Eligible to apply for HaKaSe⁺ for BOOST



Point

- NOT to be able to apply for HaKaSe⁺ for WISE, the degree course of 5-year integrated doctoral course or 4-year Doctoral Course
- Only applicants who enrolled in/went on to the 4-year Doctoral Course in April 2024 and enrolled for 12 months are eligible to apply for HaKaSe⁺ for BOOST.

Competencies and Characteristics required of Students Selected for HaKaSe⁺ and HaKaSe⁺ Contents to be Targeted for Career Development and Nurturing

Competencies and Characteristics required of Students Selected for HaKaSe⁺ and HaKaSe⁺ Contents to be Targeted for Career Development and Nurturing

Competencies and Characteristics to be Acquired	HaKaSe ⁺ Contents to be Targeted for Career Development and Nurturing						
	Door to a different field - Exploring issues through cross-disciplinary interactions -	HaKaSe ⁺ Global Camp	Internship	KU Doctoral Career Session	GS Basic Courses for Postgraduates / GS Advanced Courses for Postgraduates	Transferable Skills Improvement Seminars	Academic Skills Improvement Seminars
High Level Expertise and Interdisciplinarity	○	○	○	○	○		○
Internationality	○	○			○		○
Ability to Identify and Resolve Issues	○	○	○	○	○	○	○
Ability to Co-create	○	○	○		○	○	○
Innovative Mindset / Initiative	○	○	○		○	○	○
Career Development Skills		○	○	○	○	○	○

- ▶ Students selected for HaKaSe⁺ self-assess the **6 Competencies and characteristics** on a scale of 1 to 5 according to the competency (capabilities and behavioral characteristics) levels of ‘Initiative’, ‘Creativity’, ‘Leadership’ and ‘Innovativeness’, respectively.

HaKaSe⁺ Contents to be Targeted for Enhancement research capability as well as Career Development and Nurturing

Selected students are required to in over half of programs in one fiscal year (more than 11 events in FY 2024) and at least one from each category.

|| Category 1

Door to a different field

- Exploring issues through cross-disciplinary interactions -

*Event all students selected for HaKaSe⁺ gather together once a year

|| Category 2

HaKaSe⁺ for WISE

- Student-Selected Seminar
- Lecture by WISE Program Partner institutions
- Exchange Meeting Between the WISE Programs in some universities

|| Category 3

HaKaSe⁺ for BOOST

- AI lectures & trainings (Deep Lectures & Trainings)
- AI Theoretical / Practical Seminars (Advanced Lectures)
- AI Catch-up Seminars

|| Category 4

KU Doctoral Career Session

- Career Guidance for Doctoral Students
- Exchange meeting between doctoral students and companies
- Sansanjuku for Next-Generation Doctoral talents (Lecture by world-leading researchers)
- Career Discovery Lecture (Lecture by KU Doctoral Graduate who is active in industry and other sectors of society)

|| Category 5

KU Doctoral Transferable Skills Enhancement Seminars

|| Category 6

KU Doctoral Academic Skills Enhancement Seminars

HaKaSe⁺ Contents to be Targeted for Career Development and Nurturing ~ Develop interdisciplinarity and internationality and broad perspective ~

Door to a different field - Exploring issues through cross-disciplinary interactions -

- All of Students selected for HaKaSe⁺ and faculty members of HaKaSe⁺ gather together
- HaKaSe⁺ students are divided into groups of 4 or 5 for group discussion, transcending divisions, research fields, grades and nationalities.

TO be held on Dec. 3, 2024

“Explore social research topic and co-create values and ideas issues through cross-disciplinary interactions that contributes to the solution of its issues.”

4 topics will be set up with “Issues × Interdisciplinary” as the starting point, and HaKaSe⁺ students will discuss and present their each proposal, being divided into 32 groups

- | | | | |
|-----|----------------|----|--|
| I | AI | II | Disaster Prevention/
Revitalization |
| III | Climate change | IV | Food system |



Held annually

▼ Held on Oct. 23, 2023



- ▶ To build a network of doctoral talents of the same generation
- ▶ To cultivate the abilities such as conceptual, planning, proposal, communication and co-creation skills
- ▶ To stimulate the interest in collaborating with researchers from different fields and to motivate them to apply different disciplines to their own research and to initiate collaborations.

HaKaSe⁺ Global Camp in Taiwan

- Original global training program for Japanese students selected for HaKaSe⁺, collaborated with National Taiwan Normal University (NTNU), one of the KU International Partner Institutions (University-Level)

In FY2023: 6 selected students,
From Dec. 4 to 12

In FY 2024: 9 selected students,
From Nov. 15 to 24

Since FY2023



Practical English Lesson



Research exchange with doctoral students and researchers of NTNU and NTU



Research presentation and Group discussion with Taiwanese graduate students



Visit to World-leading company



Cross-cultural exchange with Taiwanese students

Opportunity to develop a broader perspective, internationality and interdisciplinary talents beyond his/her own research, and to take the first step towards the possibility of international collaboration research.

HaKaSe⁺ Contents to be Targeted for Career Development and Nurturing ~ KU Doctoral Career Session ① ~

Contents to support doctoral students in proactively developing their careers

KU Doctoral Career Session is designed as a series of career development contents specializing in doctoral talents, to be held for doctoral students as well as students in master's and bachelor's course who desire to go on to doctoral course.

Doctorate is passport for future career

- HaKaSe⁺ collaborates with the KU Career Support Office to host the event
- Supporting the career development of selected students by planning contents that support independent career design as highly specialized doctoral talents
- Career contents for motivating students to go on to doctoral course at an earlier stage
- Online career seminars are held according to fields (humanities and sciences).

Job and Career Guidance for Doctoral Students

Job-hunting guidance specialized for doctoral talents, consisting of a lecture and practical work in two sections (held on Sep 24, 2024)

- *Expectations for doctoral candidates from society
- *Companies' evaluation of the abilities of doctoral personnel
- *Diverse career possibilities for doctoral personnel and the compatibility of research and career development



Lecture



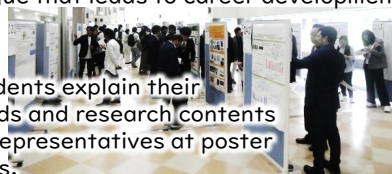
Practical work

- *Practical work to summarize the contents of vision and appeal based on current research themes and future aspirations
- *Acquiring the importance of verbalization

Exchange meeting between doctoral students and companies

- In October 2024, research and development staff and human resources personnel from 11 companies, including regional companies, participated.
- Opportunities for doctoral candidates and companies to get to know each other and to engage in dialogue that leads to career development through chance encounters

Doctoral students explain their research fields and research contents to company representatives at poster presentations.



Companies introduction



Doctoral students listening to the company's features, the content of R&D, and the expectations to doctoral talents

【11 Participating Companies】

株式会社オキサイド, 産業技術総合研究所, 株式会社ダイセル, タワーパートナーズセミコンダクター株式会社, 津田駒工業株式会社, 日本電気株式会社, ヌヴォオントテクノロジー株式会社, 株式会社PFU, ファーメラント株式会社, YKK株式会社, YKK AP株式会社

Career Discovery Lecture

Lecture by KU Doctoral Graduate who is active in industry and other sectors, talking about their own career as a doctoral talent and the fruits gained through doctoral course as a familiar senior.

To be held on Dec. 25, 2024

HaKaSe⁺ Contents to be Targeted for Career Development and Nurturing ~ KU Doctoral Career Session ② ~

Promoting the appeal and value of doctoral talents to enhance motivation for going on to doctoral course.

Sansanjuku for Next-Generation Doctoral talents (Lecture by world-leading researchers)

Researchers who are active at the forefront of research in the world will talk to the participating students of their paths as researchers, the thoughts that drive them to research, and their expectations for doctoral talents, and inspire students to go on to doctoral course.

7th (held on Nov 7, 2024)

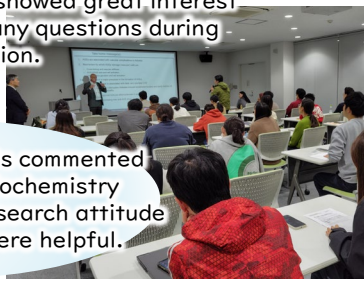
ca. 50 participants

Prof. Casper Schalkwijk, Maastricht University (Netherlands)
Special Seminar on Biochemistry, inviting foreign researcher as a lecturer for the first time



Participants showed great interest and asked many questions during the Q&A session.

Participating students commented that not only the biochemistry findings but also his research attitude and presentation were helpful.



6th (held on Jan 18, 2024)

ca. 60 participants

Assistant Prof. KIMURA Mariko,
Advanced Research Center for
Space Science and Technology, KU

Up-and-coming young female researcher
talks about her motivation for becoming a
researcher and her career as a researcher

- * During master course, the first author's paper was published in the British scientific journal "Nature".
- * Received "Marie Skłodowska Curie Award" by JST, for awarding young female researchers who are expected to flourish across the world.

Promoting the appeal of
doctoral talents to high
school and junior high school
students with collaboration
with KUGS and STELLA



"Career Design for Doctoral Advancement and Beyond" Guidance for Undergraduate and Master's Students

Held on June 24, 2024 and to be held in Jan-Feb, 2025

Explanation of specific actions to take for career development during doctoral course based on reasons and expectations for doctoral talents in industry, academic careers, and recruitment activities for doctoral students.

[Main target]
Students in
Bachelor and
Master course



Voices of Senior Doctoral Degree Holders 「HaKaSe⁺ Stories」

Published on
HaKaSe⁺
Web site

Your ideas will change you, society, and eventually the world.

 自ら発見した研究の種を追求した経験を活かし、新たな分野で企業を支える一員に 福田 菜祐 FUKUDA Rikuto ナノ機能医学・理工学卓越大学院プログラム 新学術創成研究科 ナノ生命科学専攻 2022年度修了	 海外の自然環境を舞台に地球科学を探究し、模索したキャリアの広がり 北島 卓磨 KITAJIMA Takuma 次世代課題人材創成プロジェクト 国際科学研究科 応用システム専攻 2023年度9月修了
 失敗を新たな成果につなげ、化学の発展を担う研究者に 笹本 大空 SASAMOTO Oozora ナノ機能医学・理工学卓越大学院プログラム 医薬保健学総合研究科 創薬科学専攻 2022年度修了	 好きな研究にのめりこみ、つかなだ企業研究者の道 小沼 実香 KONJIMA Miko 次世代課題人材創成プロジェクト 医薬保健学総合研究科 創薬科学専攻 2022年度修了
 逆境こそが、次のステップ。地道さと諦めないことが成功への鍵。 後藤 聡汰 GOTOU Sota 次世代課題人材創成プロジェクト 医薬保健学総合研究科 創薬科学専攻 2022年度修了	

Alumni who have received support as selected students of HaKaSe⁺ have expressed their motivations for enrolling in doctoral course, what they gained during doctoral course, and their career choices in their own words, showing the expansion of the careers of doctoral talents as role models.

HaKaSe+ Contents to be Targeted for Career Development and Nurturing ~ Improvement of broad perspective and transferable skills ~

Transferable Skills Enhancement Seminars

The six-part online lecture series is designed to provide specific skills that doctoral personnel, whether in academia or industry, should acquire and enhance.

Academic Skills Enhancement Seminars

Provide On-demand contents students can take according to their research hours

- CACTUS Seminar Video with 20 Topics (in JP & EN)
- Nature Masterclasses On-demand Courses

博士は 必要 不可欠
HaKaSe+ 博士 研究 人材 支援・研究 力 強化 戦略 プロジェクト
Kanazawa University Strategic Project for Development of Doctoral Students and Research Promotion

トランスファラブル スキル 向上 セミナー

アカデミアでも 産業界でも 躍動 する 博士 研究 人材 へ!

研究を進めるうえでも、キャリアを切り拓くためにも、絶対に欠くことのできないスキル。博士の時代に、高めておくべき力とは？ 異分野の集まりの社会に飛び出たとき求められるスキルとは？ 自身の専門性と能力を存分に発揮するため、博士の時代にこそ身に付けよう！ 研究者・研究開発者向け研修で数多くの実績を持つ日本能率協会グループの講師陣が教えてくれます！

9/9 (月) 16:30~18:30	第1回 社会で活躍する研究者になるために
9/26 (木) 16:30~18:30	第2回 研究者のためのコミュニケーションスキル
11/7 (木) 16:30~18:30	第3回 研究テーマ企画の進め方
11/22 (金) 16:30~18:30	第4回 研究者に求められる論理思考
12/16 (月) 16:30~18:30	第5回 研究者のためのプレゼンテーションスキル
12/23 (月) 16:30~18:30	第6回 研究テーマ推進におけるスケジュール管理

全6回 オンライン開催
1 講義のみの受講もOK

企業 大学 博士 研究 人材 支援・研究 力 強化 戦略 プロジェクト (HaKaSe+)
金沢 大学 学務 部 学 務 課 学 務 課 学 務 課
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078-834-6944 / dnp@kan.zn.kanazawa-u.ac.jp

トランスファラブルスキル向上セミナー

全6回の講義概要・スキル向上ポイント (日本能率協会グループ)

<p>第1回 社会で活躍する研究者になるために</p> <ul style="list-style-type: none"> ◆博士のポジション、そして課題を知り、自分らしい活躍の場を待たせ! ◆企業研究の意義と魅力 ◆博士人材が社会に飛び出すときから備えておくべき基礎的スキル <p>9/9 (月) 16:30~18:30 (大崎真奈美 講師)</p>	<p>第2回 研究者のためのコミュニケーションスキル</p> <ul style="list-style-type: none"> ◆様々な関係者との社会で研究者に求められるコミュニケーション力 ◆研究前によるコミュニケーションのキヤッチアップ ◆研究を事業化していく前後で必要となるコミュニケーション <p>9/26 (木) 16:30~18:30 (大崎真奈美 講師)</p>	<p>第3回 研究テーマ企画の進め方</p> <ul style="list-style-type: none"> ◆企業における研究開発テーマ探求方法 ◆自身の社会や市場のありたい姿を構想する考え方 ◆将来課題を解決するための研究開発テーマの企画と計画 <p>11/7 (木) 16:30~18:30 (高橋 央 講師)</p>
<p>第4回 研究者に求められる論理思考</p> <ul style="list-style-type: none"> ◆目的達成できるロジカルな考え方 ◆具体的方法・論理/論点/論理を提示 ◆論理のストーリーの構築 ◆原因探求やアイデア出しをする手法 <p>11/22 (金) 16:30~18:30 (丹羽哲夫 講師)</p>	<p>第5回 研究者のためのプレゼンテーションスキル</p> <ul style="list-style-type: none"> ◆手取りを抑える資料作成の原則 ◆オーディエンスの目的に合わせた資料作成のためのポイント ◆オーディエンスを味方につける話し方 <p>12/16 (月) 16:30~18:30 (丹羽哲夫 講師)</p>	<p>第6回 研究テーマ推進におけるスケジュール管理</p> <ul style="list-style-type: none"> ◆不確定要素だらけの研究テーマを制御し進めるためのポイント ◆最終成果に向けたスケジュール設定と課題の可視化 ◆進捗管理の進め方 <p>12/23 (月) 16:30~18:30 (渡部訓久 講師)</p>

全6回のうち、関心のある1講義だけの受講も受け付けます。
(オンラインのURLや資料の送付の都合上、事前に受講申込をしてください)
主な受講対象は博士後期・博士課程学生ですが、博士前期・修士課程学生も大歓迎!

企業 大学 博士 研究 人材 支援・研究 力 強化 戦略 プロジェクト (HaKaSe+)
金沢 大学 学務 部 学 務 課 学 務 課 学 務 課
【 担当 課 長 氏 名 】 金 沢 大 学 学 務 部 学 務 課 学 務 課 学 務 課
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Nature Research Academies

Workshop to improve research skills by Nature Exclusive Instructors

To be held in March, 2025 for FY2024

nature research academies

H a K a S e +

Catchphrase that expresses our wish
to “Encourage students to go on to doctoral course” and
to “Encourage students to be a doctoral talents who will pioneer the future” .

[Contact]

Educational and Student Affairs Division, Kanazawa University

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Please replace [at] with @.

Website :

Kanazawa University Strategic Project for Development of
Doctoral Students and Research Promotion

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

