Pioneering Research Program for a Waseda Open Innovation Ecosystem

（W-SPRING）

AY2024 Application Guidelines (Spring)

[Eligible applicants: as of April 1, 2024]

Doctoral program	1st-2nd year
5-year doctoral program	3rd-4th year

*For more details, see "Application eligibility"

1. Aims and outline

Waseda University (hereinafter, "the University") aims to foster PhD students who have a perspective on both social implementation and academia and has knowledge in and outside their areas of specialization and human networks. Our aim is also to ensure diverse career paths for our PhD students.

The "Pioneering Research Program for a Waseda Open Innovation Ecosystem" (hereinafter, "W-SPRING") provides an environment so that students can dedicate themselves to independent, pioneering, and interdisciplinary research / This will be possible through financial support of both living and research expenses (for up to three years) to excellent and ambitious PhD students who are the future of Japan's science, technology, and innovation. All in all, the program offers talented PhD students opportunities to acquire training that will prepare them for industry and other sectors through various forms of support, including career development and training contents (cultivating international and inter-disciplinary character, career development, learning transferrable skills, internships, etc.).

We hope the students who receive W-SPRING to become very active in industry and eventually contribute to developing the University into a world-class research university and strengthen Japanese industrial competitiveness.

Moreover, W-SPRING is managed by the "Committee of the Pioneering Research Program for Waseda Open Innovation Ecosystem" (W-SPRING Committee) that is part of the University's Research Enhancement Head Office, with the support of the Japan Science and Technology Agency (hereinafter, "JST") and the "Program for Pioneering Research by Next-Generation Researchers" (SPRING). The Current JST SPRING will temporarily end in AY2023, but as JST invited in public next SPRING after AY2024 onwards, we have applied for the next JST SPRING program as of February 2024. This recruitment makes it condition that our application to the next JST SPRING program is adopted.

2. Application eligibility

Applicants are required to **participate in career development and training contents of this program and also be motivated to work in industry or implement their own research or ideas in society (incl. starting a business).** In addition to this, they need to fulfill the following criteria (1)-(4) as well as either (5) or (6).

(1) The applicant needs to be either enrolled in their 1st year of the doctoral program at Waseda or in their 3rd year of a 5-year doctoral program as of April 1st, 2024 (Including those who are scheduled to enroll on April, 2024).

Those who were not eligible to apply for W-SPRING due to taking temporary absence from university can also apply if the applicant falls under the following condition.

・Those who enrolled the doctoral program at Waseda in April 2023, and are in the 2nd year of doctoral program or will advance to the 4th year of 5 year doctoral program as of April 1st, 2024.

The following explains the relationship between D1-D2 as described in the guidelines and the various years of the doctoral and 5-year doctoral programs.

	Doctoral program	5-year doctoral program
D1	Year 1	Year 3
D2	Year 2	Year 4

(2) Student whose current research belongs to any one of the following four cross-disciplinary areas, and who intends to contribute to that area. Students may only apply to one area. It is not possible to apply to multiple areas.

	Areas	Examples of chief research themes
1	Green innovation	Planetary boundary, climate change, carbon neutrality, social de-carbonization, smart grid, next-generation solar batteries, solid-state battery, next rechargeable battery, carbon recycling, hydrogen society, energy carrier, material innovation, zero-carbon city, zero emission houses/buildings, etc.
2	Life innovation	COVID-19 and other infectious diseases, population decline and society aging, health and medical strategy, online healthcare and nursing, health economics, precision medicine, genome editing, well-being, 100-year lifespan, social participation lifespan, innovation strategies for agriculture, forestry, and fisheries, ocean basic plan, regulatory science, alternative protein, planetary health, etc.
3	Digital innovation	Digitization, DX, ultra low power consumption calculation, merging cyber and physical spaces, social transformation through robots, AI and information, quantum computing, beyond 5G, data-driven research, smart labs, digital twin, smart cities and super cities, etc.

4	Social innovation	Cities and community building, multicultural society design, strategic revival of urban agriculture, resilient society, resilience, safety and peace of mind, security, SDGs, circular economy, resource circulation, social transformation through multi-disciplinary knowledge, ELSI, innovation ecosystems, nature positive, etc.

(3) Students recommended by a supervisor affiliated with their institution or a prospective PhD supervisor.

(4) Students who have completed research ethics training (APRIN e-learning program (eAPRIN) "Responsible Research Activities") or will complete it by end of May 2024 before the research expenses are paid. Details of how to take the program will be announced later.

(5) Students who have Japanese citizenship, special permanent residence, status of residence according to Appended Table II of the Immigration Control and Refugee Recognition Act (permanent resident, long-term resident, spouse or child of Japanese [permanent resident]).

(6) Students who are qualified to study in Japan as an "international student" who are a privately funded and formally enrolled in a program.

Students who fall into any of the following categories at the start of the support period are not eligible for support under this program.

●Japan Society for the Promotion of Science (JSPS) special researcher

●Research Associate, Research Associate for a research project

●Students who are considered to be receiving a ※stable income such as salary, director's remuneration from their university or company, at a level sufficient to cover living expenses (2.4 million yen per year). ※"Stable income" refers to fixed income such as salary as a full-time employee, remuneration as a director of a venture company, or salary as a part-time lecturer. Income from paid internships, TAs, RAs and part-time jobs, as well as support in the form of research funds, are not included in "stable income."

● International students who are receiving support through the Japanese Government Scholarship Program, or financial support such as scholarships from their home country.

● Students who are receiving scholarships or planning to receive one can also apply for this program. However, depending on the scholarship, there is a possibility that you may be asked to cancel or refund the scholarship you have already received if you are selected for this program.

(Note 1) Students who are currently receiving or planning to receive scholarships from private organizations, local governments are encouraged to confirm the conditions with the organization in advance.

(Note 2) It is not possible to receive a scholarship (benefit type) from Japan Student Services Organization (JASSO) in addition to W-SPRING support.

It is possible to receive a scholarship (loan type) from JASSO in addition to W-SPRING support. However, for category 1 scholarship loan from JASSO recipients since AY2023, who also receive W-SPRING support, are not eligible for recommendation as "candidates for exemption from repayment based on outstanding achievement" in the doctoral program.

(Note 3) If you plan to apply for the "Scholarship for Fostering Researchers in Doctoral Programs" (Internal Scholarship), please read thoroughly the application guidelines, such as income restriction. The application website: https://www.waseda.jp/inst/scholarship/en/doctoral/

3. Number of positions and support duration

Status when the support starts		Number of positions	Support duration (maximum)
Year*	Period of enrollment		
Doctoral program 1st year (D1)	0.0 year (Enrolled in April 2024)	TBD	3.0 years
	0.5 year (Enrolled in September 2023)		2.5 years
Doctoral program 2nd year (D2)	1.0 year (Enrolled in April 2023)		2.0 years

*As current JST SPRING will end at the end of AY2023, we have applied for next JST SPRING succussed. As the selection results is undecided, the number of positions also is undecided at this point (To be decided from the end of February to March). If the number of supporters for the next program is commeasurable as the current program, the number of positions will be approximately 50.

*For students in 5-year doctoral program, convert 3rd year (D1) and 4th year (D2).

*The period of enrollment in brackets above assumes a student who has not taken a break since starting the doctoral program. If the student has a period of non-enrollment due to a break after support has started, it will be suspended during that period.

The support duration is a maximum of three years until the end of D3, 5th year in case of 5-year doctoral program. However, if they are employed as JSPS special researcher, an assistant at the University, or otherwise do not fulfill the criteria for W-SPRING support, the support will be canceled.

As the JST will review the University's situation on an annual basis, there may be changes in support period or payment reduction in FY2025 and beyond.

4. Contents of research incentives

※Please note that the amount of support is tentative, and the details may change.

The contents of research incentives (living expenses[1], research expenses[2]) will be one of the following depending on the evaluation results of document review and interview.

Evaluation results	Contents of research incentives
S grade	2.9 million yen a year (living expenses 2.4 million yen + research expenses 0.5 million yen)
A grade	2.7 million yen a year (living expenses 2.2 million yen + research expenses 0.5 million yen)

[1] In fiscal law, "a sum to cover living expenses" is considered "miscellaneous income," which means that it is subject to income and residence taxation, so it needs to be declared annually. Moreover, since it also affects health insurance, dependent support, etc., make sure to discuss this with supporters (parents, etc.) before applying for W-SPRING.

[2] "Research expenses" are considered as public research funds, so it generally falls under scientific research assistance projects for the purposes of the University procedures. For specific procedures, adhere to the "Research Expenses Execution Manual." However, the use of expenses may be defined separately for this program .

○Research Expenses Execution Manual

https://waseda-research-portal.jp/en/how-to-use/research-expenses-execution-2/

(1) Support duration and payout amounts

The following is the support duration and payout amounts for the AY2024 successful applicants (S grade, A grade). The support duration depends on your academic year and period of enrollment when the support starts. The support duration may also be shortened if support is suspended.

International students who are unable to come to Japan and are engaged in educational or research activities outside of Japan are not eligible to receive the research expenses until they arrive in Japan. After arriving in Japan, they will be eligible to receive research expenses (equivalent to living expenses) according to the period of their stay in Japan, assuming that the W-SPRING support is continued. The amount of the research grant (research expenses) is based on the assumption that the recipient will receive the amount of the grant, but the amount of the grant may be reduced depending on the time of arrival in Japan.

[S grade]

(Start of support)		Type of incentives	2024		2025		2026	
			Spring	Fall	Spring	Fall	Spring	Fall
D1	0.0 year	Living expenses	2.4 million yen		2.4 million yen		2.4 million yen	
		Research expenses	0.5 million yen		0.5 million yen		0.5 million yen	
	0.5 year	Living expenses	2.4 million yen		2.4 million yen		1.2 million yen	−
		Research expenses	0.5 million yen		0.5 million yen		0.25 million yen	−
D2	1.0 year	Living expenses	2.4 million yen		2.4 million yen		−	−
		Research expenses	0.5 million yen		0.5 million yen		−	−

[A grade]

(Start of support)		Type of incentives	2024		2025		2026	
			Spring	Fall	Spring	Fall	Spring	Fall
D1	0.0 year	Living expenses	2.2 million yen		2.2 million yen		2.2million yen	
		Research expenses	0.5 million yen		0.5 million yen		0.5 million yen	
	0.5 year	Living expenses	2.2 million yen		2.2 million yen		1.1 million yen	−
		Research expenses	0.5 million yen		0.5 million yen		0.25 million yen	−
D2	1.0 year	Living expenses	2.2 million yen		2.2 million yen		−	−
		Research expenses	0.5 million yen		0.5 million yen		−	−

(2) Payout times for incentives (living expenses, research expenses)

Living expenses	Paid to the student's personal account registered with the University once a month. Only bank account in Japan is acceptable. 　S grade: 0.2 million yen/month 　A grade: 0.185 million yen/month for October and April, 0.183 million yen/month for all other months.
Research expenses	Lump payment per support year. For AY2024, 0.5 million yen is planned to be paid in the end of May 2024.

5. Obligations of recipient students

(1) Registering the job-type internship system
   *The job-type research internship is a long-term and paid internship conducted collaboration with industry and universities. **Registration in a dedicated system is required**, and once registered, students will be able to view the company's job description (job content, required knowledge and abilities, etc.), but applying to the job description is optional.
   *Overview of job-type internship
   ①　https://waseda.box.com/s/6ql7t936oz4c1wijqyxqd011j593evwv
   ②　https://waseda.box.com/s/nx3iplgj4lcz1zprmsthsnyy7mpzzgpn
   *For details on internships, see "9. Participating in internships.

(2) Taking what corresponds to 9 credits in courses related to career development and training programs designated in this program.

(3) In addition to the above, they should participate in a program that cultivates international character.

(4) They are strongly recommended to take part in a corporate internship.

(5) They should write and submit a "Program Progress Report" in a specified format at the end of every academic year. D3 students will make a presentation in the final semester of their support.

(6) After receiving their PhD, they should conduct research with a strong orientation toward generating innovation in industry.

(7) If requested by the University, they should assist the program's PR and research activities as much as possible.

(8) They should answer various surveys after the end of the program. W-SPRING is conducted with the support of the JST's "Program for Pioneering Research by Next-Generation Researchers," so we may survey participants' employment for approximately 10 years after the end of the program.

(9) After attending and passing the research ethics training (eAPRIN) designated by this program, the research funds must not be used in research malpractice.

(10) As the research funds are for the students to conduct independent research, they need to agree to documents that concern the handling of intellectual property, etc.

(11)　There may also be other items stipulated by the University as needed.

(12) It is recommended to apply for JSPS Research Fellowship (DC2) for 2025. If you are selected as a JSPS Postdoctoral Fellow, you will not be eligible for W-SPRING support, and it is recommended that you work as a JSPS Postdoctoral Fellow.

   * If you are selected as a JSPS Postdoctoral Fellow, you will not be able to take any post during the period (e.g., being an officer of a company, organization, or running one's own commercial enterprise, with or without compensation). Please note that if you are considering starting a business.

6. Suspension and repayment of support

Research incentives and other support will be suspended if any of the following apply.
(1) You are no longer enrolled at the University due to expulsion, etc.
(2) You are not enrolled at the University for a period of time due to taking a break. (The support is suspended for the duration of the break.)
(3) You are suspended from school as a disciplinary measure.
(4) You committed research fraud or misused research funds, etc.
(5) You were deemed to neglect your obligations after registering with the program.
(6) Your progress is deemed to be considerably insufficient at the end-of-year review of your "program progress report."
(7) You do not meet the eligibility criteria for application, or you become ineligible after selection.
(8) When an international student is unable to come to Japan and is conducting educational or research activities outside of Japan. However, this excludes the case where the student is conducting activities overseas based on participation in a program to cultivate internationalism imposed by this program.
(9) You are found to be unsuitable for the program, aside from (1)-(8) above.

If you have received research incentives despite not being eligible due to causes for support suspension or cancellation, including deletion of your school register due to unpaid tuition fee, you need to repay to the University any part of the support for which you are not eligible.

7. Taking courses in programs for career development and training

(1) Policy

In addition to research skills, the following three competencies are necessary for PhD to pursue diverse career paths in the future:

① Entrepreneurship and communication/presentation skills
② Training in data science and information science to contribute to solving social issues
③ Practical English proficiency

In particular, developing entrepreneurship leads to enhancing ambition and the will to take on difficult tasks, an enterprising spirit to forge a path where there is none, inclusivity for team-building, and the skills to convey your own ideas to procure funds. We believe this is necessary when not only entrepreneurs and businesspeople but also researchers create new multi-disciplinary fields as well as engage in research that contributes to solving social issues. It is mandatory to take courses designated by the University to develop these competencies and a total of 9 credits should be obtained over three years.

However, D2 and students in 5-year doctoral program do not have to take some courses, depending on their period of enrollment.

(2) Conditions

The remarks column in the table below shows the courses that need to be taken in AY2024, but if the contents of the courses change in the following year or later, participants will be notified of the required courses as needed for every new academic year.

Please note that the number of credits required differs depending on whether you are a D1 or D2 student at the time of adoption as shown in the table below (as of April 1, 2024, D1 students must obtain 9 credits during the support period and D2 students must obtain 6 credits during the support period).

Competencies	Academic year at the time of adoption		Remarks
	D1	D2	
① Entrepreneurship and communication/presentation skills	5 credits	3 credits	Select courses from the "Business Creation Course" (for graduate students) offered by the Global Education Center. For details, see (4) AY2024 Course List ①.
② Training in data science and information science to contribute to solving social issues*	2 credits	2 credits	Select the "Data science certification system courses" either an intermediate or advanced offered by the Global Education Center. For details, see (4) AY2024 Course List ②.
③ Practical English proficiency	2 credits	1 credit	< Students in the School of Fundamental /Creative Science and Engineering > Choose from (4) AY2024 Course List ③ Practical English proficiency courses.
Credits needed to pass	**9 credits**	**6 credits**	

5-year doctoral program

a. Power Energy Professionals (PEP)

Competencies	PEP students For all grade	Remarks
① Entrepreneurship and communication/presentation skills	2 credits	Select from the "Business Creation Courses" (for graduate students) offered by the Global Education Center. For details, see (4) AY2024 Course List ①.
② Training in data science and information science to contribute to solving social issues*	Exempt	–
③Practical English proficiency	Exempt	–
Credits needed to pass	**2 credits**	

b. Graduate Program for Embodiment Informatics

Competencies	Academic year at the time of adoption		Remarks
	D1	D2	
①Entrepreneurship and communication/presentation skills	3 credits	1 credit	Select from the "Business Creation Courses" (for graduate students) offered by the Global Education Center. For details, see (4) AY2024 Course List ①.
②Training in data science and information science to contribute to solving social issues*	Exempt	Exempt	–
③Practical English proficiency	2 credits	1 credit	< Students in the School of Fundamental /Creative Science and Engineering > Choose from (4) AY2024 Course List ③ Practical English proficiency courses.
Credits needed to pass	**5 credits**	**2 credits**	

c. Students in School of Advanced Science and Engineering

Competencies	Academic year at the time of adoption		Remarks
	D1	D2	
① Entrepreneurship and communication/presentation skills	5 credits	3 credits	Select from the "Business Creation Courses" (for graduate students) offered by the Global Education Center. For details, see (4) AY2024 Course List ①.
② Training in data science and information science to contribute to solving social issues*	2 credits	2 credits	<ALL students> Select an intermediate or advanced course from the "Data science certification system courses" offered by the Global Education Centre. For details, see (4) AY2024 Course List ②.
③ Practical English proficiency	Exempt	Exempt	–
Credits needed to pass	**7 credits**	**5 credits**	

※1. For "②Training in data science and information science to contribute to solving social issues," the designated courses of the "Data science certification system courses" are intermediate-level courses that require basic knowledge on statistics and data science. Students who wish to learn the basics of statistics and data science should make use of the following support services offered by the Data Science Center and make a study plan.

Students who take "Graduate Minor Program for Carbon Neutrality (Tentative)" in graduated school

Competencies	Academic year at the time of adoption		Remarks
	D1	D2	
①Entrepreneurship and communication/presentation skills	Exempt	Exempt	–
②Training in data science and information science to contribute to solving social issues*	Exempt	Exempt	–
③Practical English proficiency	2 credits	1 credit	< Students in the School of Fundamental /Creative Science and Engineering > Choose from (4) AY2024 Course List ③ Practical English proficiency courses.
Credits needed to pass	**2 credits**	**1 credits**	

If students have taken required course "Seminar on Business Creation α", which is a compulsory subject at Graduate Minor Program for Carbon Neutrality, and are willing to take this Minor in doctoral program, we will judge as students taken Graduate Minor Program for Carbon Neutrality.

[Support from the Data Science Center]
●Using self-learning on-demand contents
Registration will allow you to freely view contents on statistics and data science and learn the basics at your own pace (note that no credits can be obtained from viewing self-learning on-demand contents).
　＜URL＞https://www.waseda.jp/inst/cds/education/d-data
●Consultation about taking data science
You can have an online consultation about how you should study statistics and data science.
　＜URL＞https://www.waseda.jp/inst/cds/forms#anc_4
●Consultation about data science research
You can have an online consultation about using statistics and data science in your own research.
　＜URL＞https://www.waseda.jp/inst/cds/forms#anc_7
●Reference: Data science certification system
The University's original certification system established in AY2022.
　＜URL＞https://www.waseda.jp/inst/cds/education/accreditation

(3) Credit exemptions
If you have already taken the courses designated before applying to W-SPRING
〈All students〉
You do not have to retake them but are only required to take the courses you have not taken yet. However, similar courses taken outside the University will not be counted as part of credit exemptions.
*Example: If a D1 student accepted for AY2024 has already taken 2 credits of intermediate or higher "Data science certification system courses" in D1 or during their master's, the credits required for the "Career development and training program" is a total of 7 credits: 5 credits of courses related to entrepreneurship and communication and presentation skills as well as 2 credits of courses related to practical English proficiency.

①Entrepreneurship and communication/presentation skills & ②Training in data science and information science to contribute to solving social issues
<All students>
As explained in "9. Participating in internships" if you participate in an internship, you will be exempt from taking 2 credits in "Entrepreneurship and communication/presentation skills" OR "Training in data science and information science to contribute to solving social issues."

①　Entrepreneurship and communication/presentation skills
<All students>
For PhD students to polish their research proposal skills, they are recommended to also apply to the social implementation-type public research projects a or b below, which PhD students can apply to. If you are selected either of the research projects, you are exempted from all courses related to entrepreneurship and communication/presentation skills.
[The public research projects]
a. JST "Strategic basic research programs" (ACT-X)
b. New Energy and Industrial Technology Development Organization (NEDO) "Government and private project for discovering and supporting young researchers"
Further, for the "Strategic basic research programs" and the "Government and private project for discovering and supporting young researchers," URA belonging to the University's Research Innovation Center (RIC) instruct students about how to write proposals and make presentations.

Participation in the "Design Thinking Workshop by Stanford University d.school Instructors" (2 days,

9:00 A.M. – 6:00 P.M. each day, language: English) will be exempted from the equivalent of 2 credits. The W-SPRING Secretariat will announce the details of this program and the application for participation separately.

(Reference) Details of this program in FY2023

https://www.waseda.jp/wspring/topics/455/

＜Students in Power Energy Professionals (PEP) Program>

Students who have taken the following course can waive 2 credits from "Entrepreneurship and communication/presentation skills"

"Marketing and new market creation" (2 credits) *Course is not offered in FY2024.

<Students in the School of Advanced Science and Engineering>

Students who have taken the following course can waive 1 credit from "Entrepreneurship and communication/presentation skills"

"Leadership development program" (1 credit)

② Training in data science and information science to contribute to solving social issues

<Students in the School of Advanced Science and Engineering>

Students who have taken the following course can waive a maximum of 2 credits from Training in data science and information science to contribute to solving social issues

"Material informatics α" (1 credit), "Material informatics β" (1 credit),

③ Practical English proficiency

<All students>

Although expected to take courses with quantitative discussions in English, students who fulfill the conditions below are fully exempted from taking courses related to practical English proficiency by going through the prescribed procedure.

- ●TOEIC score 800 or higher
- ●TOEFL iBT score 79 or higher
- ●IELTS Academic score 6.5 or higher

＜Students in Fundamental, Creative and Advanced Science and Engineering

Students who have earned credits for the following courses in the master's course will be exempted from the credits earned after completing the prescribed procedures.

・Professional Communication 2
・Workplace English 2
・Advanced Technical Reading and Writing 2
・Advanced Technical Presentation 2

<Students in the School of Advanced Science and Engineering>

Students who have earned credits for the following courses will be exempted from the credits earned after completing the prescribed procedures.

・Discussion Tutorial English in Science and Engineering 1
・Discussion Tutorial English in Science and Engineering 2

(4) AY2024 Course List

*The list is as of January 1, 2024. Subject to change in the future.

●See the course registration guide for more about the Global Education Center courses.
   URL: https://www.waseda.jp/inst/gec/graduate/registration/
   Please note that the course name may be different as they are translated from Japanese.

①Global Education Center: Business creation courses

Course group	Course name	Credits
Stage1. Raise awareness	Top Leader Management A	1
	Start-up Essential B	1
	Data Business Creation alpha	1
	Advanced Course on Entrepreneurship D ※	1
	Coaching Yourself to be an Entrepreneur (Basic)	1
	Developing and Managing Global Venture Enterprises (Chair Course by Okawa Dream Foundation) ※※	2
Stage2. Idea generation	12 Essentials of Management	2
	Business Idea Design	2
	Innovation Creation Thinking 1	1
	Innovation Creation Thinking 2	1
	Business Idea Creation	1
	Data Business Creation beta	2
	Design Thinking 1	1
	Design Thinking 2※	1
Stage3. Business Model Hypothesis verification	Business Model Design ※※※	2
	Business Model Hypothesis Testing (Essential)	2
Stage4. Business Model Hypothesis verification （Premium）	REAL: Real Entrepreneurship by Active Learning II	2
	Business Model Hypothesis Testing (Premium)	4
Industry-academia collaboration course	Innovation Leadership	2
	Innovation for Industry and Career Design	1
	Logical Communication	2
	Global Business Communication Fundamental	1
	Global Business Communication Advanced	1
	CSR Management	2
	Introduction to Innovation alpha	1
	Introduction to Innovation beta	1
	Innovation and Technology Start-Up alpha	1
	Innovation and Technology Fundamentals β ※	1
	Innovation and Technology Practice alpha	1
	Innovation and Technology Practice β ※	1
	AI Business Creation alpha	1
	AI Business Creation β ※	1
	Artificial Intelligence and Business Model Creation alpha	1
	Business Model Creation with AI Technologies β ※	1

※ Courses offered in English

※※ Students who enrolled in School of Fundamental /Creative /Advanced Science and Engineering take courses from the graduate school which they belong, students other than that take courses from the Business school

※※※ Class location is "Graduate School of Commerce".

② Global Education Center courses: Data science certification system courses

Course name	Credits
Data Science on Regression and Classification 01	1
Data Science on Regression and Classification 02	1
Data Science on Regression and Classification 03	1
Data Science on Regression and Classification 04	1
Data Science on Time Series 01	1
Data Science on Time Series 02	1
Data Science on Time Series 03	1
Data Science on Time Series 04	1
Data Science on Latent Structure 01	1
Data Science on Latent Structure 02	1
Data Science on Latent Structure 03	1
Data Science on Latent Structure 04	1
Data Science on Spatial Structure 01	1
Data Science on Spatial Structure 02	1
Data Science on Spatial Structure 03	1
Data Science on Spatial Structure 04	1
Data Science on Causal Structure 01	1
Data Science on Causal Structure 02	1
Data Science on Causal Structure 03	1
Data Science on Causal Structure 04	1
Statistics Literacy gamma 01（※）	1
Statistics Literacy gamma 02	1
Statistics Literacy gamma 03（※）	1
Statistics Literacy gamma 04	1
Statistics Literacy delta 01	1
Statistics Literacy delta 02（※）	1
Statistics Literacy delta 03	1
Statistics Literacy delta 04（※）	1

（※）Courses offered in English and Japanese.

② Graduate School of Information、Production and Systems: Data science courses

Register the courses during the registration period of "Courses offered at other graduate schools".

Offered at	Course name	credit
Graduate School of Information、Production and Systems	Machine translation technology（※1）*Course is not offered in FY2024	2
	Neural Networks （※2）	2
	Machine Learning （※2）	2

（※1）Courses offered in English.

（※2）Courses offered in English and Japanese.

③ Courses in School of Fundamental /Creative /Advanced Science and Engineering：
Practical English proficiency: For students in School of Fundamental /Creative /Advanced Science and Engineering only（※3）

Offered at	Course name	credit
School of Fundamental Science and Engineering	Doctoral Student Technical Writing an intensive course (spring) ANTHONY (1)(2) *Course is not offered in FY2024	1
	Doctoral Student Technical Writing spring Wed-5 KUNIYOSHI	1
	Doctoral Student Technical Writing fall Wed-5 KUNIYOSHI	1
	Doctoral Student Technical Writing fall Thu-5 ROSE	1
	Doctoral Student Presentation Skills an intensive course(fall) ANTHONY (1)(2) *Course is not offered in FY2024	1
	Doctoral Student Presentation Skills spring Thu-5 ROSE	1

For students other than the above: Register the courses during the registration period of "Courses offered at other graduate schools"
(1) Recommended courses

Offered at	Course name	credit
School of Fundamental Science and Engineering	Doctoral Student Technical Writing an intensive course (spring) ANTHONY (1)(2) *Course is not offered in FY2024	1
	Doctoral Student Technical Writing spring Wed-5 KUNIYOSHI	1
	Doctoral Student Technical Writing fall Wed-5 KUNIYOSHI	1
	Doctoral Student Technical Writing fall Thu-5 ROSE	1
	Doctoral Student Presentation Skills an intensive course(fall) ANTHONY (1)(2) *Course is not offered in FY2024	1
	Doctoral Student Presentation Skills spring Thu-5 ROSE	1

(2) Courses that can be counted as credits other than the recommended courses above

Offered at	Course name	credit
School of Fundamental Science and Engineering	Professional Communication 2 Fri-5 SHEPPARD (fall)	1
	Workplace English 2 Thu-2 SHEEHAN (fall)	1
	Advanced Technical Reading and Writing 2 Wed-2 KUNIOSHI (fall)	1
	Advanced Technical Reading and Writing 2 Mon-4 KUNIOSHI (fall)	1
	Advanced Technical Presentation Thu-3 ROSE (spring)	1
	Advanced Technical Presentation Wed-3 ROSE (spring)	1
	Advanced Technical Presentation Thu-3 ROSE (fall)	1
	Advanced Technical Presentation Wed-3 ROSE (fall)	1

（※3）When taking the "Practical English Proficiency Courses", please take the following points into consideration and take the courses systematically.
Only one of the courses with the same name may be taken.
For example, " Doctoral Student Technical Writing an intensive course (spring) ANTHONY (1) *Course is not offered in FY2024" and " Doctoral Student Technical Writing spring Wed-5 KUNIYOSHI " are two different classes of the same subject. Therefore, only one of them can be registered.

For the following subject groups (No.1 and No.2), students may not take courses in the same subject group at the same time or take more than one course in the same subject group. Please note that only one of the courses in each course group will be approved for credit even if both courses are taken.

subject groups No.	courses	credit
1	Doctoral Student Technical Writing Advanced Technical Reading and Writing 2	1 credit for either
2	Doctoral Student Presentation Skills Advanced Technical Presentation	1 credit for either

For example, If a student earns credits in both "Doctoral Student Technical Writing" and "Advanced Technical Reading and Writing 2," only one of the credits will be granted in W-SPRING.

8. Participating in programs to cultivate international character

(1) Policy

The program aims to cultivate the international character of its students so that they can participate broadly in industry and elsewhere as PhD. Our efforts to promote the cultivation of international character include the following four programs that make the most of online attributes with the post-corona in mind.

Students receiving support are required to choose and take part in either of the programs after being selected. However, with regard to "③Participate in educational programs in collaboration with overseas universities," you can be exempted according to "(3) Condition-based exemption."

Program selection is decided after consultation with the supervisor.

①Research presentations at international conferences

By presenting your research at international conferences, you can communicate in English with researchers from around the world and deepen your research as well as cultivate international character.

②Research guidance by foreign faculty members

You can deepen your research and cultivate international character by receiving investigations from foreign faculty members from overseas universities and research institutions or ask them to give research guidance as a research advisor.

③Participate in educational programs in collaboration with overseas universities

Students cultivate international character by taking part in the Micro MBA program in collaboration with University of California San Diego, which provides English programs led by energetic teachers.

④Sending students to overseas universities and research institutions

Students cultivate international character through research activities as they take part in any of the following.

・Staying more than one month abroad at an overseas university or research institution that is a partner of the University

・Participating in the online study abroad program "Global Online Academic Learning" (GOAL) offered by the Study Abroad Center

URL: https://www.waseda.jp/inst/cie/from-waseda/abroad/goal

(2) Conditions　* Students are required to take part in either of the programs after being selected.

Program name	Overview and Requirements
①Research presentations at international conferences	Report on your research presentations in your program progress report.
② Research guidance by foreign faculty members	Report on your research guidance in your program progress report.
③Participate in educational programs in collaboration with overseas universities	Participate in and graduate from the Micro MBA program (need to pass the selection process) that recruits new students every February to March.
④ Sending students to overseas universities and research institutions	Report on your research activities abroad in your program progress report.

(3) Condition-based exemption

As regards "Participate in educational programs in collaboration with overseas universities" under (2), D2 and D1 students who have already graduated from the Micro MBA program in collaboration with University of California San Diego prior to adoption of W-SPRING and who go through the relevant procedure will be considered as having completed program already.

9. Participating in internships

(1) Policy

   We strongly recommend participating in job-type research internships or other internships to practice the skills you have acquired and obtain career design opportunities. If you cannot find a place to do the internship, you don't have to limit yourself to directly using your research theme but can do it in a variety of ways, such as getting involved in project outside your research theme or a participating in an internship program at an overseas company or international organization. You need to consult your supervisor before taking part in an internship. Applicants may also look for internships outside the curriculum in accordance with program policy.

*Reference: Job-type research internship outline

   ① https://waseda.box.com/s/6ql7t936oz4c1wijqyxqd011j593evwv
   ② https://waseda.box.com/s/nx3iplgj4lcz1zprmsthsnyy7mpzzgpn

(2) Conditions

Program name	Overview and Requirements
Participating in job-type research internships or other internships	Report about your internship status in your program progress report which needs to be approved by W-SPRING.

   ※Whether the content of the program matches W-SPRING will be judged based on the progress report

(3) Condition-based exemption

   If students take the GEC course "Internship training" etc. while enrolled PhD (doctoral program year 1, 5-year doctoral program year 3 or later; excl. undergraduate and master's), they will be considered as having completed this program if they go through the prescribed procedures.

   If joint research with a private company or a researcher from an off-campus institution is conducted during the period of adoption of this program, the program will be deemed to have been implemented after completing the prescribed procedures (report on the program progress report as specified in (2) Requirements and approval by W-SPRING).

10. Program progress report

(1) Submitting the program progress report
    You complete the program progress report by submitting the following documents.
    ●Documents to submit (Documents ①② should be submitted annually and ③④ by the earliest submission deadline after the end of the program)
      ①Program Progress Report
      ②Documents showing courses taken in the career development and training program (transcripts, etc.)
      ③ Documents showing participation in initiatives to cultivate international character (research guidance record, documents proving program participation or overseas travel, etc.)
      ④Documents showing participation in corporate internships (internship agreement with the host company.)

    ●Submission deadlines (tentative)
     Submit the abovementioned documents by the following deadlines.
      April admission: submit by March 15 in the year after the support year.
      September admission: submit by September 15 in the year after the support year.

(★=submission deadline)

(Start of support)		2024	2025		2026		2027
Academic year	Period of enrollment	Sep.	Mar.	Sep.	Mar.	Sep.	Mar.
D1	0.0 year		★		★		★
	0.5 year	★		★		★	
D2	1.0 year		★		★		

(2) Program results presentation
    D3 students will have a presentation in their last semester of support (tentative).

11. Application procedure

※Before submitting your application documents※
  If you are applying, please register your information using the form below.
    Registration form ： https://bit.ly/3RSxKQU
    Registration period：From 9 AM, Thursday, February 8th 2024 to 5 PM, Thursday, February 22nd, 2024

AFTER registering in advance, follow the procedure below.

(1) Application period
    From 9 AM, Thursday, February 8th, 2024 to 5 PM, Tuesday, February 27th, 2024

(2) Application documents
    Download the documents from the following website.

    URL（Japanese）：https://www.waseda.jp/wspring/
    URL（English）：https://www.waseda.jp/wspring/en/

    You have to speak to and gain your supervisor's approval about your application before applying.

(3) Application procedure
- ●Fill in the required fields of the following application forms. Then, convert "(2) Application documents " into PDF. and attach the file to the application.

  URL（Japanese）: https://www.waseda.jp/wspring/
  URL（English） : https://www.waseda.jp/wspring/en/

- ●Make sure to name the files as follows.
  Application form : **area_year_ Family name, First name_1**

  Each area should be expressed as follows in the file name:
  Green innovation: Green
  Life innovation: Life
  Digital innovation: Digital
  Social innovation: Social

  The year should be written as follows:

year	PhD	5-year doctoral program
D1	Year 1	Year 3
D2	Year 2	Year 4

  e.g.) If you are in the 1rd year of a doctoral program who is applying for Green innovation, your Application Form should be named as follows:
  Green_D1_Waseda Taro.pdf

(4) Precautions
- ●You cannot change the application documents once you have submitted them. The same is true if required documents are missing or the application is otherwise incomplete. The documents will be reviewed as is. Moreover, submitted application documents will not be returned.
- ●Personal information collected at the time of application (address, name, birthdate, etc.) will only be used for reviewing applications, announcing successful applicants, registration procedures, and associated tasks. When doing this, necessary and appropriate measures are taken to prevent leakage and misuse of information. All or part of the procedures described above may also be outsourced. If so, the other party will be obligated to manage the information as necessary and appropriate through an agreement.
- ● The area (e.g. Green, Life) you select at the time of registration and the area in your application documents should be the same. If you select a different area, the area written in your application documents will be used for screening.
- ● In the document review and interview, please describe and make a presentation in an easy to understand manner since the interviewers will be from diverse fields of expertise.

(5) Inquiries
- ●All questions regarding this Program should be sent using the following inquiry form.
  Inquiry form URL : https://bit.ly/2WiXuf4

12. Selection

(1) Selection procedure
The selection is conducted based on a comprehensive evaluation of the two stages of document review and interview (planned via Zoom). The interview will be held with those who pass the document review. Each interview will be 3 minutes long. Punctuality is essential. Please prepare a presentation (approximately 2 PowerPoint slides) so that you can explain the following points within the time limit.
・ social significance
・ your future plans
・ rationale and schedule
・ originality, creativity and challenges
・ connection with industry（For example：Research plan with industry-academia collaboration)

(2) Selection schedule

	Period	Remarks
Registration	From 9:00, February 8 (Thu.) to 17:00, February 22 (Thu.), 2024	Please register your information before applying
Application	From 9:00, February 8 (Thu.) to 17:00, February 27 (Tue.), 2024	—
Document review	Early March, 2024	You will be notified of the result of the document review and the date of the interview by email on the following date: March 13 (Wed), 2024
Interview (Zoom)	March 16 (Sat.) and 17 (Sun.), 2024 *Schedule for each field is as follows March 16: Social innovation March 17: Life innovation Digital innovation Green innovation	You will be notified of the result of the interview by email on the following date: After March 25 (Mon), 2024 Please note that the interview will be recorded. ※ The interview date specified will not be changed for any reasons.
Registration & Submission of written oath	Late March 2024	Those who do not pass the interview will in some cases be selected to fill a vacancy. Details including the submission deadline will be announced later.
Start of support	April 1 (Mon.), 2024	Use of research expenses start
	End of April 2024	Funds to cover living expenses for April will be transferred to the registered bank account at the end of the month. Execution of research funds start.

13. Contact

W-SPRING Committee Secretariat
URL：https://bit.ly/2WiXuf4