

FY2023

Leading Initiative for Excellent Young Researchers

Application Guidelines etc.

Science and Technology Policy Bureau, MEXT

April 2023

<Main changes in application for FY2023 from the previous fiscal year>

(1) Continuation period of eligibility for excellent young researcher candidate

- From the applications for FY2019 onwards, it was possible for those who were selected as EYR candidates but failed to complete negotiations with the research institutions that offered them a post in the relevant fiscal year to continue their candidate eligibility for subsequent fiscal years by submitting an application for continuation of candidate eligibility. However, for those selected as EYR candidates for FY2023, the duration of their eligibility will be limited to FY2023 and cannot be continued into subsequent fiscal years.

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Description of terms

Definitions of terms related to this project are as follows.

[Negotiations among the parties]

The research institution that offers a post and excellent young researcher candidates or applicants shall make employment negotiations in which screening proceeds based on a transparent and fair selection process.

[Tenure Track System]

Personnel system that employs researchers and teachers in a form which fulfills the following requirements in order to clarify the career paths of young researchers and teachers.

- 1) To hire through a fair and highly transparent selection method such as international public invitation
- 2) To hire for a certain period of time (approximately 5 years)
- 3) To set highly transparent tenure review procedures before the expiration of term

[Principal researchers]

Researchers or teachers who are in a stage to become active as leaders of young researchers and teachers while taking responsibility as their chief in the independent research organizations.

[Young principal researchers]

Researchers or teachers who are at the early stage of independent researchers or teachers who conduct research in an independent research environment while receiving appropriate advice from the experienced researchers.

[Mentors]

Researchers or teachers who have experience and knowledge to give extensive advice to young principal researchers so they can learn how to manage laboratories and to become the head researcher in order to acquire external funds in pursuit of undertaking the research independently.

[Cross appointment system]

A system in which researchers or teachers can engage in work under the research institutions by signing employment contracts with universities and other institutions.

[Bridge promoters]

Agencies supporting negotiation among the parties. Private job placement agencies that have signed an outsourcing contract with MEXT provide support for the negotiation among the parties between research institutions and excellent young researcher candidates or applicants.

FY2023

Leading Initiative for Excellent Young Researchers

Application Guidelines

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April 2023

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I. Overview of Leading Initiative for Excellent Young Researchers

1. Project Objectives

In recent years, short-term employment and job insecurity for young researchers have meant that the environment for them is conducive to neither challenging new areas of research nor to creative achievement. This has raised concern that the advance of Japan's scientific, technological and academic research cannot be sustained. In addition, low researcher mobility across industrial, academic and governmental sectors means knowledge is not transferred among researchers, making it difficult to deal with the global and rapid structural transformation of industry.

It is important, meanwhile, that universities, public research institutions, corporations and similar organizations take full responsibility to tackle career formation and development of young researchers in order to secure diversity, development and the success of human capital. The young researchers themselves must become aware of the need to carve out their own careers, enhance their own abilities, and take advantage of those abilities in a wide range of societal situations.

Against this backdrop, we conduct the Leading Initiative for Excellent Young Researchers (LEADER) in order to show new career paths to young researchers which they can succeed with, for example in industry circles, while creating through industry, academia, and government a stable and independent position for young researchers who would tackle new areas of research.

2. Project outline

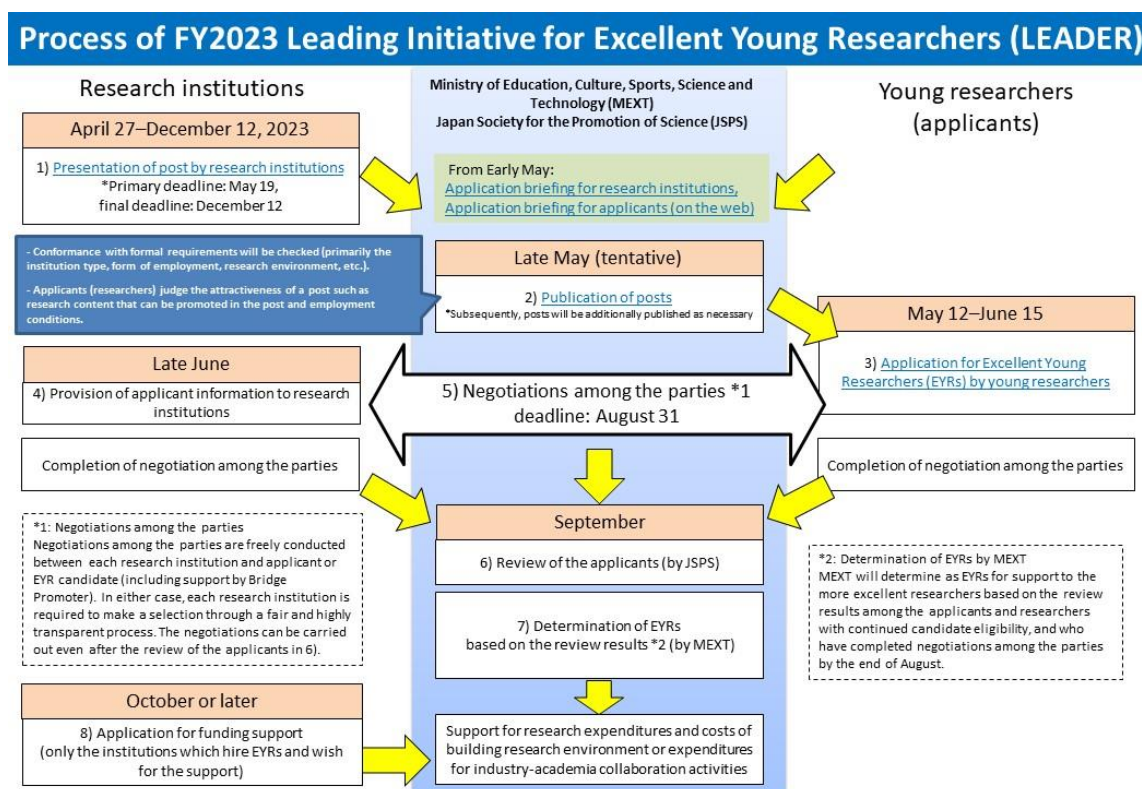
In this project, we will provide support to the research institutions of the industry-academia-government when young researchers with motivation and flexibility who can make developments in new research areas obtain stable and independent research environments in the said institution.

First, the Ministry of Education, Culture, Sports, Science and Technology (MEXT) invites posts from the research institutions that wish to participate in this project, and then publicizes those posts after satisfying the requirements through the website of MEXT or a neutral public institution. In parallel with this, we will publicly offer a post of excellent young researchers (EYRs) for young researchers who are motivated to tackle new areas of research and conduct research in a new place of research. Next, each research institution offering a post negotiates with applicants (young researchers) individually (hereinafter, the “negotiation among the parties”). Furthermore, a neutral public institution conducts a review of the young researcher applicants based on the purpose of this project, and MEXT determines excellent young researcher candidates (hereinafter, “EYR candidates”). As a result, if the EYR candidates obtain a stable and independent research environment in research institutions, MEXT determines those candidates as EYRs and provides a support of research expenditures, etc. as needed for a specified period of time.

In the FY2023 public offering, the Japan Society for the Promotion of Science (hereinafter referred to as “JSPS”) supports MEXT as a neutral public institution on the review of this project.

Please be aware in advance that the contents of this project may change depending on the budget situation.

Entire schedule regarding public offering in FY2023



II. Application Contents

1. Posts requirements that are to be publicized (Research institutions)

Only posts that meet the following requirements are to be publicized:

a. Requirements for research institutions

The institutions must fall under any of the following:

- Universities (prescribed in Article 1 of the School Education Act (Act No. 26 of 1947).)
However, this does not include universities determined to be incompatible as a result of the most recent evaluation by an institution authorized by the Minister of MEXT according to the provision in Article 109 of the School Education Act.
- Inter-University Research Institute Corporations, which are prescribed in paragraph 4, Article 2, National University Corporation Act (Act No. 112 of 2003).
- Colleges of technology (colleges of technology prescribed in Article 1 of the School Education

Act)

- National Research and Development Agencies, which are prescribed in paragraph 3, Article 2 of the Act on General Rules for Incorporated Administrative Agencies (Act No. 103 of 1999).
- Public test and research institutes (institutes established by municipal governments, which conduct tests and research and provide technical guidance relating to local industry promotion).
*The test and research laboratories, inspection and certification institutes, educational and training facilities (including institutes and facilities similar thereto), medical and rehabilitation facilities, reformatory and internment facilities, and work facilities that are established in the administrative organs (ministries, commissions, and agencies) prescribed in paragraph 2, Article 3 of the National Government Organization Act may offer posts for this project, but no funding support is available.
- Companies or similar entities having corporate status in Japan (including general incorporated associations and general incorporated foundations [including public interest incorporated associations and public interest incorporated foundations that have been authorized by relevant government agencies]; engaged in research and development activities)

b. Areas of research of posts to be publicized

Areas of research are all areas of humanities, social sciences, and natural sciences.

So, the posts to be publicized shall be based on the future plans of the institution under the leadership of the institute director (e.g.: a president of university) and satisfy any form of employment shown below. In principle, an annual salary system is applied to the pay structure.

- Employment is to be carried out under the tenure-tracking system or another similar fair, transparent, and stable personnel system. Furthermore, a research institution that applies a certain fixed-term employment system setting a limitation on the number of reappointment to all higher ranking positions (equivalent to professors) can employ a person in the post according to regulations, etc. formulated/published by research institutions.
- Indefinite-term employment.

c. Research environment

- 1) Build an independent research environment so that EYRs can set their own research themes by themselves and carry out the research. (e.g. placement of mentors, provide assistance for raising research funds, improve the research support system, ensure the research space, placement of shared equipment, assignment of graduate students to laboratories as chief advisors, etc.) However, based on consultation with the research institution to which they belong, it is possible for the EYRs to change a part of their research subject.
- 2) Assuming total office hours per year of 100%, in principle, EYRs should spend 50% or more on making efforts to conduct research activities for 5 years after employment (within the range of 50 % or more, it is acceptable to set this to 70% or 80% depending on features of a research institution).

*EYRs are expected to proactively work with research institutions all over Japan in their respective fields. Furthermore, it is also desirable for the EYRs to actively utilize the cross appointment system in each research institution (assuming between different kinds of institutions such as universities and companies).

<Reference>

- Basic framework and notes on the cross appointment systems (December 26, 2014, Ministry of Economy, Trade and Industry, Industrial Science and Technology Policy and Environment Bureau, Ministry of Education, Culture, Sports, Science and Technology, Higher Education Bureau) (particularly, “Section 2-3, Recommended examples of cross appointment system based on temporary transfer”)
(URL: https://www.meti.go.jp/policy/innovation_corp/cross_appointment.html)
- “Guideline for Enhancing Industry-Academia-Government Collaboration Activities (Supplemental Version) issued on June 30, 2020 by the Secretariat of the Council for Industry-Academia-Government cooperation to promote innovation) (Specifically, “A-3. Virtuous Cycle of Human Resources; 5. Utilization of second jobs and the cross-appointment system; B-4. Building of long-term personnel relationships, and 8. Enriching exchange of human resources”)
(URL: https://www.meti.go.jp/policy/innovation_corp/guideline.html)

d. Start time of research

In principle, the start time of research in research institutions for EYR is in 2023. However, those who can receive the support of Funds for the Development of Human Resources in Science and Technology (hereinafter, the “Funds”) in FY2023 have to complete the negotiation among the parties, in principle, by the end of August 2023.

e. Points to be considered

- A company can set tenures, job titles/duties, etc. based on characteristics of the business for requirements in b. and c. above.
- Each research institution can make a public offering independently in parallel with presenting a post to this project, however, it should be careful not to decide employment informally before the end of the application deadline (17:00, Thursday, June 15, 2023) for applicants (young researchers).

2. Requirements, etc. for applicants (young researchers)

Applicants (young researchers; hereinafter referred to as the “applicants”), who are going to be active in various research institutions of industry-academia-government, shall satisfy all of the following requirements when applying.

a. Attained academic degree, etc.

Those who satisfied all requirements in 1) through 4) below:

- 1) Those who have received a doctor's degree, or those who have acquired all the predetermined credit in graduate school doctoral programs for the standard term of study or more and completed the doctoral program without having a doctoral degree (referred to as “those who completed the doctoral program without receiving a doctoral degree”)
- 2) As of April 1, 2024, those who are below 40 years of age (those below 43 years of age are accepted if they were enrolled in a medical field which requires clinical training)
For those who have stopped research for a total of 3 months or more due to childbirth or childcare (regardless of sex), we will consider the age requirement by about 1 to 2 years according to individual circumstances.
* In this case, enter the reason why research was suspended, due to childbirth or child-care, in the application form and submit it with an additional document certifying that reason.
Please check “(vi) An interruption of research activities for more than 3 months for childbirth or childcare” in IV. 1.
- 3) Those who have research achievements (a doctoral dissertation can be added for a person who received a Ph. D.) in the past five years (since 2018).
- 4) Those who have never been selected as EYRs by MEXT

b. Nationality

Those who fall under any of the following:

- 1) Those who have Japanese nationality or foreigners who have obtained permission for permanent residence
- 2) Those who have nationality of countries which have diplomatic relations with Japan (Taiwanese or Palestinian researchers are treated in accordance with this.)

c. Points to be considered

- In principle, researchers who are selected as EYRs should carry out research at a laboratory other than the laboratory to which an EYR belongs to at the time of being a doctoral course student (hereinafter referred to as “Alma Mater's Laboratory”) and the laboratory to which an EYR belongs at the time of application (hereinafter referred to as “Current Laboratory”). Because EYRs are required to set a research theme independently, carry out research as a laboratory director or a quasi director and challenge a new research task, using industry-academia-government research institutes all over Japan as their field.
- As described in 5. Negotiation among the parties below, each EYR candidate or applicant shall negotiate with the relevant research institution offering a post. In addition, after the EYR candidates are decided, MEXT or JSPS will send a list of the candidates as well as application information “Researcher Form 1” and “Researcher Form 1 Attachment” to all the research institutions which offered posts and the agencies supporting negotiation among the parties (see 5. (2)). Furthermore, their “first choice of institution type” are also provided to the agencies

supporting negotiation among the parties. For this reason, it is necessary that applicants agree to the contents of the Application Guidelines including these matters on the application system when applying.

Regarding those who have agreed at the application stage to provide application information to the institutions offering posts and the agencies supporting negotiation among the parties, their information will be provided to the research institution and the institution supporting negotiation among the parties following the application before the decision on EYR candidates. Applicants shall select whether or not to agree to it on the application system when applying.

d. Applying for the continuation of candidate eligibility

- For those who were selected as EYR candidates in the FY2021 applications and applied for the continuation of their candidate eligibility in FY2022, if their negotiation among the parties with the research institution offering a post was not completed in FY2022, they can continue their candidate eligibility through FY2023. If the EYR candidates applicable to the above have an intention of conducting negotiation among the parties with the research institution offering a post in FY2023, they can participate in the negotiation among the parties in FY2023 by applying for the continuation of their candidate eligibility. The said persons shall apply for the continuation of their candidate eligibility using the electronic application method described in IV. by the applicants' deadline for applications (17:00, Thursday, June 15, 2023).
- Those who were selected as EYR candidates in the FY2022 applications but failed to complete negotiations by the end of the fiscal year with research organizations that offered them a post may retain their candidate eligibility through FY2023. If the EYR candidates applicable to the above have an intention of conducting negotiation among the parties with the research institution offering a post in FY2023, they can participate in the negotiation among the parties in FY2023 by applying for the continuation of their candidate eligibility. The said persons shall apply for the continuation of their candidate eligibility using the electronic application method described in IV. by the applicants' deadline for applications (17:00, Thursday, June 15, 2023).

3. Publication of posts

Research institutions offer post(s) based on an application form to MEXT. MEXT checks the post(s), from the viewpoint of conformance with requirements shown in 1. above, lists posts that meet requirements and publicize the list through JSPS's website.

Further detailed information regarding the post(s) in both Japanese and English in principle shall be registered on JREC-IN Portal (<https://jrecin.jst.go.jp/seek/SeekTop>) operated by the Japan Science and Technology Agency (JST) or disclosed on websites of research institutions. When doing so, research institutions are asked to pay sufficient attention not to cause a discrepancy between the contents stated in the application form (Research Institution Form 2) and the information posted on JREC-IN Portal or on the website of the research institution. In addition, we recommend research institutions to actively utilize the JREC-IN Portal, as it would help call attention of researchers even more to the posts.

The primary deadline for offering post(s) is Friday, May 19, 2023. MEXT will confirm the requirements of the offered posts, which will then be published in late May. Posts offered after the primary deadline will be additionally published as necessary.

The period for offering posts shall be up to Tuesday, December 12, 2023. Post offer is accepted on an as-necessary basis. Furthermore, as described also in 5. below, take care to ensure a fair and highly transparent selection process.

- Date of post publication: late May 2023 (posts to be offered as required)

- Primary deadline of post offer: 17:00, Friday, May 19, 2023
Last deadline: 17:00, Tuesday, December 12, 2023
(The research institution offering a post may amend post information up to the end of December 2023.)

4. Selection of excellent young researcher (EYR) candidates

A review is carried out to select EYR candidates by the EYR Selection Committee (hereinafter, the “Selection Committee”) established within the Japan Society for the Promotion of Science. A review is conducted by the Selection Committee members through screening of the application documents (especially, Researcher Form 1 (including the Attachment) and 2), submitted by the applicants. (Please see “2023 Review Guidelines for Leading Initiative for Excellent Young Researchers (LEADER)” for detailed review method.)

Based on review results by the Selection Committee, MEXT determines candidates and notifies them using the electronic application method installed and managed by JSPS.

5. Negotiations among the parties

(1) Negotiation among the parties

In this project, each research institution offering a post needs to individually negotiate on employment with the EYR candidates or applicants. In the negotiation among the parties, it does not matter either way whether the EYR candidate or applicant contacts and visits the research institution or the institution checks the application information and contacts the EYR candidate or applicant.

For smooth negotiation among the parties, each research institution registers information such as the application acceptance period for each post and the outline of selection process and schedule when offering posts to MEXT. After publishing the post offers, it is also possible to update information on the selection process schedule, etc. of each research institution.

Research institutions shall use a fair and highly transparent selection process so as to avoid situations that go against the selection process and schedule indicated in the published post

information (including the information posted on JREC-IN Portal and the website of each institution), such as informally deciding on employment before the application deadline from candidates and applicants and no longer accepting applications from them. In addition, in order to avoid situations that cause disadvantage to applicants from abroad in the negotiation among the parties, we recommend research institutions to accept applications and conduct interviews online by utilizing methods such as e-mail or “Web application function” of JREC-IN Portal for submitting application documents and a video conference system or video call tool for conducting interviews.

Applicants may be requested from research institutions to submit documents other than the application documents for this project, so please check the post information.

Note that, regardless of the timing of negotiation among the parties and the application acceptance period at each research institution, the funds delivery destination will be decided after the determination of EYR.

(2) Agencies supporting negotiation among the parties

In FY2023, we plan to introduce support for the negotiation among the parties that is provided by the agencies supporting negotiation among the parties (hereinafter, the “Bridge Promoters”) so as to promote the unearthing of talented young researchers who can succeed at research institutions run by industry, academia, and government and to facilitate smoother negotiations. Support for the negotiation among the parties is provided by institutions serving as Bridge Promoters with which MEXT signed an outsourcing contract. Details of the support for the negotiation among the parties will be provided by MEXT at a later date.

(3) Negotiation among the parties prior to the determination of candidates

After the publication of the post offers, it is possible to start negotiation among the parties even before the determination of candidates. Researchers make sure to check the application acceptance period set for each post and need to contact the relevant institution by the application deadline. However, each research institution should be careful not to decide employment informally before the end of the application deadline (Thursday, June 15, 2023).

(4) Provision of EYR candidate (applicant) list and application information to research institutions

For smooth negotiation among the parties, once application is made, application information (“Researcher Form 1” and “Researcher Form 1 Attachment”) of those who have agreed to provide such information to institutions offering posts at the stage of application as well as of those who continue the candidate eligibility is provided to the research institutions before the determination of EYR candidates. In addition, after the candidates are determined, the list of EYR candidates as well as application information will be sent to all research institutions offering posts.

(5) Provision of EYR candidate (applicant) list and application information to the Bridge promoters

In order to promote the support for the negotiation among the parties between research

institutions and EYR candidates or applicants, application information of applicants and EYR candidates who have given consent (“Researcher Form 1,” “Researcher Form 1 Attachment,” and their first choice of institution type) is provided to the Bridge Promoters.

*In the case of those who continue the candidate eligibility (excluding those who submit an additional application set forth in IV.(1)), the application information provided to the institutions offering posts and the Bridge Promoters is the information updated at the time of application for continuation.

6. Scheduled number and determination of excellent young researchers

(1) Scheduled number of excellent young researchers (EYRs)

In FY2023, around 10 EYRs are planned to be newly determined.

Note that the scheduled number of EYRs is the number of persons to be supported with Funds and includes those who continue their candidate eligibility as in 2. d. above and have completed the negotiation among the parties. In addition, if no funding support is desired, or if the determination as an EYR is desired despite being ineligible for support with Funds, such candidate may be selected as an EYR even in excess of the scheduled number of EYRs.

(2) Determination of EYR

If the negotiation among the parties is completed by the end of August 2023 between the research institution offering a post and an EYR candidate or applicant and the employment starts in FY2023, MEXT will determine the candidate or applicant as an EYR for FY2023 (in the case of an applicant, it is required to go through review by the Selection Committee and to be selected as an EYR candidate by MEXT, in addition to completing the negotiation among the parties).

However, if negotiation completion reports are submitted in excess of the scheduled number of EYRs to be determined by the end of August 2023, MEXT will determine the top candidates found to be more excellent than others as the EYRs supported with Funds, based on the review results of the EYR candidates or applicants having completed the negotiation among the parties (for those who continue their candidate eligibility through FY2023, their review results when selected as EYR candidates).

Note that in the case of those who continue their candidate eligibility through 2023, they can go through the review for the current fiscal year by updating all application forms including Researcher Form 2 in addition to Researcher Form 1 (including its attachment). In that case, determination of EYRs with respect to those having completed the negotiation among the parties is based on the review results of the updated application contents. Note that their candidate eligibility will not be lost even in cases where they go through the review for the current fiscal year, if they have applied for the continuation of candidate eligibility as described in IV.1.

*For those who continue their candidate eligibility, we are unable to respond to individual

inquiries about review results at the time of deciding EYR candidates.

*If an additional application for updating all the application contents is submitted to go through the review, the candidate information provided to research institutions and Bridge Promoters will entirely be the contents updated by the additional application.

Please note that once the filing of the additional application is completed, it is no longer possible to revert to pre-update application contents.

* In case those who submitted an additional application in the FY2022 apply for continued candidate eligibility in FY2023 (only those who were selected as candidates in the FY2021 application), the information transferred in the continued application shall be the information written in the application form submitted in the FY2022 application.

*The longest period for which candidate eligibility is continuable remains unchanged from the point in time of being selected as an EYR candidate.

In principle, those who are selected as EYRs should carry out research at a laboratory other than the Alma Mater's Laboratory and the Current Laboratory except for the unavoidable reasons stated below.

(Unavoidable grounds)

- It is difficult for the EYR to be engaged in researches in a laboratory other than the Alma Mater's Laboratory and the Current Laboratory due to a physical challenge, childbirth/childcare, etc.
- Purposes/contents and plans of researches make it extremely difficult to change a research laboratory to the one other than the Alma Mater's Laboratory and the Current Laboratory in the current status of researches of research institutions in Japan.

From FY2021, in cases where a company (excluding research institutions of non-private companies) that offers a post on the JREC-IN portal, but does not offer a post in the LEADER, hires a new applicant or a person who continues his/her candidate eligibility, as long as MEXT judges that the post meets the requirements for the post in the LEADER specified in 1 above, the post will be considered equivalent to the position offered by the LEADER. Please note that a company hiring a new applicant or a person who continues his/her candidate eligibility and wishing for determination as an EYR needs to contact MEXT and ask for confirmation of whether the subject post satisfies the requirements for posts in the LEADER. (New applicants must first be assessed by the Selection Committee and then decided on as candidates by the MEXT.) In addition, if the hiring company wishes funding support, an application for the support needs to be submitted separately. In addition, if the hiring company wishes funding support, an application for the support needs to be submitted separately.

(3) Continuation of eligibility for excellent young researcher candidate

For FY2023, if the candidates newly selected in FY2023 do not complete their negotiations with the relevant parties within the fiscal year, their eligibility may not continue in FY2024 and beyond.

7. Contents of support

(1) Expenses to be subsidized

In this project, JSPS will grant either [A] or [B] below as Funds to the research institutions that hire young researchers decided as EYRs and seek support.

Please be aware that if the number of EYRs who completed negotiation among parties with research institutions exceed the scheduled number of EYRs described in 6. (1) above, we may not be able to pay the amount of the Funds each research institutions has applied for (including the amount after FY2024).

As a matter of principle, the types of available expenses are those shown in Appended Tables 1, 2, and 3.

[A] Research expenditures and costs of building research environment

The following a and b are granted as the Funds for young researchers appointed as EYRs to carry out research in a stable and independent manner.

a. Research expenditures for EYRs

For the first 1–2 fiscal years after determination of EYRs (or 2–3 fiscal years if hiring starts in the following fiscal year and EYRs become eligible for support by Funds), up to 12 million yen per EYR is provided during the two years to support research expenditures required to start the research activity. The two-years worth of Funds may be allocated freely, but there is an upper limit of 8 million yen per year. In addition, as for humanities and social sciences, the upper limit of the support shall be 8 million yen for the two years, with an annual upper limit of 5 million yen.

b. Costs of building research environment

To build a system that enables EYRs and other young researchers (excluding students) to carry out research in a stable and independent manner, the amount calculated by multiplying 2 million yen by the number of EYRs belonging to a research institution (in the first fiscal year, the number of EYRs selected in that fiscal year) is provided at maximum to support costs of building research environment in the first through fifth fiscal years after the determination of the EYRs (for example, salaries for adjunct instructors substituting lectures to secure research time of research assistants and EYRs, gratuities for mentors, and expenses required to purchase/repair shared research equipment, etc., and to hold a meeting to evaluate EYRs).

The upper limit of the support may be raised or additional support may be provided limited to the first and second fiscal years after the appointment of EYRs, if the following conditions are

met.

- 1) A research institute which hires an EYR who belonged to a research institution outside Japan for the past year or longer as of the application deadline (Thursday, June 15, 2023. The same date as for those who are applying for continuation of the candidate eligibility) will be provided up to 3 million yen.
- 2) If an EYR is hired in cross appointment between different types of institutions such as between a company and a university, funds up to 4 million yen shall be provided.
- 3) If a research institution that decides to hire an EYR in FY2023 hires a young researcher (including those other than applicants) for the post published in FY2023 who satisfies the requirements of 2. a. and b. above, and if the research institution is not the institution to which the researcher belonged for his/her doctoral course or just before the employment, additional support will be granted up to the amount that is obtained by multiplying 1 million yen by the smaller of “the number of such young researchers that belong to the institution in each fiscal year” or “the number of EYRs that are adopted in FY2023 and belong to the institution in each fiscal year (in the first fiscal year, the number of EYRs selected in that fiscal year)” for the first 1–2 fiscal years after determination of the said young researcher. As a rule, the additional support in this requirement will be provided if the requirement is met as of the end of August 2023 depending on the budget implementation at that time.

Table of the amounts of support for costs of building research environment (All figures are per person.)

	First and second fiscal year	Third to Fifth fiscal year
EYR (excluding 1) and 2))	2 million yen	
Hiring from an institute outside Japan 1)	3 million yen	2 million yen
Hiring using the cross appointment system 2)	4 million yen	2 million yen
Hiring of young researcher 3)	1 million yen	-

When an EYR and young researcher in the above 3) transfer from the concerned posts, the support as described above will not be provided from the following fiscal year to the original research institution or the transfer destination.

In addition, research expenditures for EYRs cannot be diverted to costs of building research environment. Costs of building research environment may be diverted to research expenditures for EYRs, but the upper limit per annum of research expenditures for EYR shall be 8 million yen. As for humanities and social sciences, no diversion is acceptable in excess of 5 million yen per year. In addition, research expenditures for EYRs and costs of building research environment cannot be put together and used.

[B] Industry-academia collaboration activity expenditures *Available only for companies

Funds will be offered for industry-academia collaboration activity expenditures to create stable and independent research environment at a company for the researchers appointed as Excellent Young Researcher when they are participating in joint or delegated research (hereinafter, the “joint research, etc.”) with a university, Inter-University Research Institute Corporation, colleges of technology, and National Research and Development Agency (hereinafter, the “universities, etc.”).

When an EYR participates in a joint research, etc. with a university, etc., as much as a half of the industry-academia collaboration activity expenditures shouldered by a company based on the contract regarding the joint research, etc., with the upper limit of 10 million yen per fiscal year, will be provided for the first through fifth fiscal years following the appointment as an EYR. (e.g. if an EYR participates in a joint research with a university and a contract was signed where the company shoulders 5 million yen, 2.5 million yen will be provided as industry-academia collaboration activity expenditures.)

If the joint research, etc. starts in the second fiscal year of the appointment of EYR, the support for the costs of building research environment of 2 million yen in the above [A] b. alone will be provided in the first fiscal year.

*Whether the post offered by the company falls under funds [A] or [B], as a rule, is specified in the entry item (Research Institution Form 2) of the post information at the time when the post is published.

If the EYR transfers from the concerned post, the above support will not be provided from the following fiscal year.

Note that the expenditures cannot be diverted together with the research expenditures for EYRs and costs of building research environment described in [A]. In addition, in the same manner, the expenditures cannot be put together and used with research expenditures for EYRs and costs of building research environment.

(2) Exclusion of redundant support

Please note that this project cannot offer support including research expenditures for the same researcher if a research institution gets a support from other Funds for the Development of Human Resources in Science and Technology projects (such as strategic development project for researchers who can succeed worldwide).

8. Schedule from application to provision of the funds

(1) Research institutions

May 19, 2023: Primary deadline of post offer [see II.3.]

Late May: Publication of posts (subsequently, posts will be published as necessary) [see II.3.]

After the publication of posts: Start of negotiation among the parties [see II.5.]

*After the publication of posts, it is possible that each research institution, applicants, and those who continue the candidate eligibility conduct negotiation among the parties before EYR candidates are determined.

Late June: Delivery of applicant information (only on those who have agreed to provide it) and information on those who continue the candidate eligibility [see II.5.(4).]

*A list of those who newly become EYR candidates in the application for FY2023 will be sent in October [see II.5.(4)].

At any time after completion of negotiation among the parties: Submission of a negotiation completion report [see III.2.]

August 31: Submission deadline for a negotiation completion report [see III.2]

*If the number of those who have completed the negotiation among the parties by the end of August exceeds 10 which is the scheduled number of EYRs to be determined for FY2023, MEXT will determine the top candidates found to be more excellent than others as the EYRs supported with Funds, based on the review results of the EYR candidates or applicants having completed the negotiation among the parties. For those who continue their candidate eligibility, their review results will be those when selected as EYR candidates.

October or later: Determination of EYRs and start of research activities as EYRs

*In order to start research as an EYR, it is required that the person is determined as an EYR.

(2) Applicants (young researchers) and those who continue their candidate eligibility

May 12: Start of application [see IV.1.]

*Application method will be different in the case of undergoing the review for this fiscal year after having completed the procedures to continue candidate eligibility and then updated all the application forms. Make sure to see IV.1. and check the process in advance.

June 15: Application deadline [see IV.1.]

From late May: Publication of post offers [see II.3.]

After the publication of posts: Start of negotiation among the parties [see II.5.]

*After the publication of posts, it is possible that each research institution, applicants, and those who continue the candidate eligibility conduct negotiation among the parties before EYR candidates are determined. Researchers need to contact the relevant research institution by the application deadline set for each post.

August 31: Submission deadline for negotiation completion reports from research institutions

*If the number of those who have completed the negotiation among the parties by the end of August exceeds 10 which is the scheduled number of EYRs to be determined for FY2023, MEXT will determine the top candidates found to be

more excellent than others as the EYRs supported with Funds, based on the review results of the EYR candidates or applicants having completed the negotiation among the parties. For those who continue their candidate eligibility, their review results will be those when selected as EYR candidates.

September: Selection of EYR candidates [see II.4.]

October: Notification of acceptance or rejection as an EYR candidate [see IV.2.]

October: Determination of EYRs based on the review results

October or later: Start of research activities as an EYR

III. Procedure, etc. for Research Institutions

1. Preparation of application documents, application method, etc.

Follow the application system installed and managed by JSPS to apply for this project. For more details, please refer to “The public information (for research institutions)” in “Leading Initiative for Excellent Young Researchers (LEADER)” on the JSPS website.

URL: https://www.jsps.go.jp/j-le/koubo_kenkyu_kikan.html

(i) Application documents

Follow the application system to fill in necessary information in the attached application forms (Research Institution Forms 1 and 2) and submit them.

“Research Institution Form 1” is the form to enter the basic information of the research institution. Please create once as institution as a whole. “Research institution Form 2” is a form to enter detailed information on posts which should be created for each post to be presented.

* A research institution wishing to receive funds needs to submit a “Self-Evaluation Checklist on System Development, etc.” based on the “Guidelines for Managing and Auditing Public Research Funds at Research Institutions (Implementation Standard)” and “Checklist on implementation status based on the ‘Guidelines for Responding to Misconduct in Research’,” as well as this application document to MEXT. (See V. (3) and (7) for details.)

(ii) Application period

Start of accepting applications: from Thursday, April 27, 2023

Primary deadline of post offer: 17:00, Friday, May 19, 2023

Last deadline: 17:00, Tuesday, December 12, 2023

(The posts offered by Friday, May 19, 2023 are published in late May (tentative), and subsequently, posts will be published as necessary. Start date of application may be changed.)

(iii) Submission method

To use the application system, first go through the “ID and password issuance application” process

from the JSPS website, log in to the application system using the obtained ID and password, prepare application forms, and submit them. Details on obtaining an ID and password and preparing application forms will be posted on the JSPS website, so please refer to it.

(iv) Others

- Among the posts offered by research institutions, the posts that satisfy requirements in II. 1 above will be listed up and publicized through the websites of JSPS.
- Items described in the “Research Institution Form 2” shall be publicized on the JST’s JREC-IN Portal (<https://jrecin.jst.go.jp/seek/SeekTop>) or the research institution's website, immediately after publicizing the posts as shown above. For registering in JREC-IN Portal, input items according to Reference 2. When doing so, research institutions are asked to pay sufficient attention not to cause a discrepancy between the contents stated in the application form (Research Institution Form 2) and the information posted on JREC-IN Portal or on the website of the research institution.
- Information of those who agreed to provide the information to the institutions offering the posts when applying and those who applied for continuation of their candidate eligibility will be provided before the decision on EYR candidates.

2. Reporting of completion of negotiation among the parties

If the negotiation among the parties is completed between the research institution offering a post and an EYR candidate or applicant, the institution shall submit the required documents as follows.

If the number of the persons planned to be hired for whom negotiation completion reports are submitted during the submission period exceeds the scheduled number of EYRs for FY2023 (around 10 persons), MEXT will determine the top candidates found to be more excellent than others as the EYRs supported with Funds, based on the review results of the EYR candidates or applicants having completed the negotiation among the parties (for those who continue their candidate eligibility through FY2023, their review results when selected as EYR candidates).

(i) Documents to be submitted

Research institutions that have completed the negotiation among the parties with an EYR candidate or applicant are requested to fill in the necessary information in the negotiation completion report (Research Institution Form 3) and submit the completed form to MEXT. Also, if the case falls under any of the following I. to III., submit a relevant confirmation document together with the negotiation completion report.

Upon determination as an EYR, also submit a copy of the letter of consent (Research Institution Form 4) from the person to be hired (the original to be stored by each institution) and the written pledge (Research Institution Form 5).

For the relevant forms that need to be submitted to MEXT, please download them from the

LEADER website of MEXT. Then, prepare the forms and submit them to MEXT.

URL: https://www.mext.go.jp/a_menu/jinzai/takuetsu/

	Confirmation documents
I. When hiring a person who belonged to a research institution outside Japan for the past one year or longer	Research Institution Form 6
II. When hiring a person in cross appointment between different types of institutions	A document that confirms hiring using the cross appointment system
III. When an institute which decided to hire an EYR is hiring a young researcher other than the EYR candidates to the post it offers in FY2023	Research Institution Form 7

*Please confirm the [conditions] in Research Institution Form 3 for details.

If the person whom the research institution decided to hire as an EYR declined the appointment, obtain the letter of decline (Research Institution Form 8) from the person and swiftly submit a copy (the original to be stored by each institution).

In this case, the EYR who voluntarily declined the hiring to the concerned post cannot become an EYR even if the person completes the negotiation among the parties for another publicized post in this project.

(ii) Submission period

From the expiry date of the application deadline for applicants (young researchers) through 17:00, Thursday, August 31, 2023 (*strict observance of time limit)

*Each time when the negotiation among the parties is completed between the research institution and an EYR candidate or applicant in the period from September 2023 through the end of March 2024 and determination to an EYR is desired regardless of whether supported with Funds, please fill out the necessary information in the document (Research Institution Form 3) and submit it.

(iii) Submission method

Submit documents by e-mail after converting into PDF file. If it is difficult to submit the documents via e-mail, please consult with MEXT.

- The e-mail subject line shall be “[Completion of negotiation among the parties] Institution Name.”
- Add an “institution name” to an attached file name and send the file.
- After receiving an e-mail, make a receipt notification by e-mail to a sender within the next day (excluding Saturday, Sunday, and holidays). Immediately let us know if no receipt notification reaches in one or two days after sending an e-mail.

(iv) Submit to

3-2-2, Kasumigaseki, Chiyoda-ku, Tokyo, 100-8959

Basic Human Resources Promotion Section 1, Human Resources Policy Promotion Office,
Human Resources Policy Division, Science and Technology Policy Bureau, MEXT

E-Mail: takuetsu@mext.go.jp

3. Application for funding support

- (1) The research institution that has determined to accept an EYR candidate after the selection and the negotiation among the parties and wishes to receive funding support (hereinafter, the “Support Institution”) shall prepare an annual plan based on support application documents (from both the researcher and the research institution) and the negotiation completion report as well as the integration of expenses responding to the plan and submit them to JSPS. We will contact you about details at a later date.
- (2) The Funds are granted based on the Funds payment guidelines, etc. specified separately.

4. Survey and questionnaire survey

To promote the science and technology innovative human resources development in Japan and improve the Leading Initiative for Excellent Young Researchers (LEADER), MEXT or JSPS will survey institutions that hired EYRs on the research activity status of each EYR in the year when the EYR is determined and for approximately the subsequent 10 years. Your cooperation is appreciated. We also plan to conduct a survey for research institutions applying for this project, so we ask for your continued cooperation.

IV. Procedure, etc. for Applicants (Young Researchers)

1. Preparation of application documents, application method, etc.

Follow the electronic application method installed and managed by JSPS to apply for this project. Please refer to “The public information (for researchers)” in “Leading Initiative for Excellent Young Researchers (LEADER)” on the JSPS website for any details.

URL: https://www.jsps.go.jp/j-le/koubo_kenkyu.html

(i) Application documents

Follow the electronic application method to fill in the attached application forms (Researcher Form 1 (including the Attachment) and Researcher Form 2) or to download the prescribed forms and submit them.

a. Researcher Form 1 (including attachment)

Please input necessary information using the electronic application system and submit it. For attached Form 1, please download the prescribed form, fill in the form and register it in the electronic application system.

b. Researcher Form 2

Please download the prescribed form, prepare and register it by the electronic system.

*In applying for continuation of the candidate eligibility, log in to the system using the ID (for those who made an additional application in FY2022, the ID shall be the one at the time of the additional application) acquired when selected as an EYR candidate, and check and update the contents of “Researcher Form 1” and “Researcher Form 1 Attachment” that were already registered in the previous fiscal year on the electronic application system. It is not necessary to register “Researcher Form 2” because the information already registered in the previous fiscal year cannot be changed. Fill in the respective application forms on the electronic system or download and prepare the prescribed forms and register them.

(ii) Application period (common to both new applications and applications for the continuation of candidate eligibility)

From 10:00 a.m., Friday, May 12, 2023 to 5:00 p.m., Thursday, June 15, 2023 (strict observance of time limits)

Note that start date of application may be changed.

*The load on the application system is large at the last minute of the application due date. A problem may occur: for example, it takes time to send an application, or the application cannot be completed. So, please complete the application well in advance to avoid any problems.

*If a person who continues his/her candidate eligibility wishes to update all the application contents to go through the review in the current fiscal year, not only an application for the

continuation of candidate eligibility, but also an additional application needs to be submitted. In addition, it is separately necessary to contact JSPS by Thursday 1 June, 2023. So, please complete the application well in advance to avoid any problems.

(iii) Application method

To use the electronic application system, log in to the system installed and managed by JSPS using the obtained ID and password after applying for “ID/password issuance,” and prepare application forms and submit an application.

For details on obtaining an ID and a password and preparing an application form, make sure to refer to the “Operating Manual for the Electronic Application System for LEADER (for researchers)” posted on the JSPS website.

*In cases where those who were determined to be EYR candidates for FY2021 and continued their candidate eligibility through FY2022 and those who were determined to be EYR candidates for FY2022 are applying for continuation of their candidate eligibility through FY2023:

In applying for continuation of the candidate eligibility, make sure to log in to the system using the ID used when selected as an EYR candidate. Do not obtain a new ID to use the system. Then, check and update the “Researcher Form 1” and “Researcher Form 1 Attachment” that were already registered in the previous fiscal year on the electronic application system. In applying for continuation of the candidate eligibility, it is not necessary to register “Researcher Form 2” because the information already registered in the previous fiscal year cannot be changed.

Note that in FY2023, if the number of those who have completed the negotiation among the parties by the end of August exceeds the scheduled number of EYRs to be determined (approximately 10 persons), MEXT will determine the top candidates found to be more excellent than others as the EYRs supported with Funds, based on the review results of the EYR candidates having completed the negotiation among the parties.

In the case of those who continue their candidate eligibility, the review results when selected as EYR candidates should be the basis. If desired, however, it is possible to go through the review for the current fiscal year by completing applying for continuation of the candidate eligibility and then submitting an additional application to update all the application contents including Researcher Form 2 within the application period specified above. In this case, determination of EYRs is based on the review results of the updated application contents. Going through the review for the current fiscal year does not result in losing the candidate eligibility, if applying for continuation of the candidate eligibility as described in IV.1. is completed.

For the method for an additional application to go through the review, make sure to refer

to the “Operating Manual for the Electronic Application System for LEADER (for researchers)” posted on the JSPS website.

*We are unable to respond to individual inquiries about review results at the time of deciding EYR candidates.

*If an additional application for updating all the application contents is submitted to go through the review, the candidate information provided to research institutions and Bridge Promoters will entirely be the contents updated by the additional application. Please note that once the filing of the additional application is completed, it is no longer possible to revert to pre-update application contents.

*In cases where those who submitted an additional application in FY2022 apply for continuation of candidate eligibility in FY2023 (only for those who were selected as candidates in FY2021), the information to be transferred to the continuation application is that contained in the application form submitted in FY2022.

*The longest period for which candidate eligibility is continuable remains unchanged from the point in time of being selected as an EYR candidate.

(iv) Notes for application documents and selection

- If any content misstatement is found in an application document, the determination of an EYR may be canceled and support discontinued.
- The application documents for this project must be prepared in either Japanese or English.
- It is possible to prepare the application documents in color and insert images and tables, but the copies of the documents are prepared in black and white when reviewing, so the contents should be legible in black and white. In addition, please note that the maximum file size of Form 1 Attachment is 1 MB and Form 2 is 3 MB.
- It is possible to change the number of words and lines in Researcher Form 1 Attachment and Researcher Form 2, but you cannot change the layout, especially column width and the order of entry items, or delete the explanation boxes for the items.
- Replacement or correction of the application documents after the application is completed is not acceptable. Please carefully check that there is no deficiency in the documents before submitting them. Even if the content at the time of application has changed after the application is completed, the application documents cannot be replaced.

(v) Others

- The application procedure is complete when all of (i) a and b are in place on the electronic application system.
- Part of the information stated in application documents (Researcher Form 1 and Researcher Form 1 Attachment) are disclosed to all research institutions which offered posts if the researcher is selected as an EYR candidate.
- Regarding those who have agreed to provide application information to institutions offering

posts at the application stage, their information will be provided to the institution following the application before the decision on EYR candidates. Applicants shall select whether to agree to provide the application information or not on the application system when applying.

- We request a person determined as an EYR candidate to submit an identity paper (a copy of a driver's license etc.) and other documents that can confirm the receiving of an academic degree such as a copy of diploma etc. at a later date. We will contact you about any details after the determination of EYR candidates.

(vi) An interruption of research activities for more than 3 months for childbirth or childcare

Based on the application requirement a. 2) described in II. 2 above, if you apply as a person who took time out your research activities for the reason of childbirth or childcare, write the reason of interruption in the "Researcher Form 1" when applying through an electronic method and send the documents below certifying the grounds for childbirth / childcare by mail. (As of April 1, 2024, those who are below 40 years old [or below 43 years old for those who were enrolled in medical field which requires clinical training] are not required to submit this documentation. If you reside outside Japan and cannot mail documents, consult with JSPS.)

<Documents to be submitted>

Please submit the original certificate of resident card (without the "My Number") or a family register (or extract of family register), (the certificate documents stating names and birth dates of the applicant and his/her child). In addition, if you cannot confirm the reasons for childbirth / childcare by the resident card or family register (or extract), you may additionally be asked to submit documents such as medical certificate.

<Addressee>

5-3-1, Koji-machi, Chiyoda-ku, Tokyo, 102-0083

Excellent Young Researchers Section 1, Human Resource Development Program Division,
Japan Society for the Promotion of Science

*Sending by mail, write "LEADER application documents enclosed" on the envelope in red.

*In principle, we will not consider delivery delays or loss, therefore, send the documents by a confirmed method, such as registered mail. Please note that we cannot respond to inquiries about the arrival of documents.

<Deadline>

17:00, Friday, June 23, 2023 (Japan Time)

As for the details on preparing the "Researcher Form1" when applying through the electronic application system, they will be posted on the JSPS website, so please refer to it.

If an error is found in the application contents and the age requirement stated in II. 2. a. 2) above is not satisfied, the determination may be canceled, even after the determination as an EYR.

2. Selection of excellent young researcher (EYR) candidates and disclosure of the results

A document-based review is carried out to select EYR candidates (hereinafter, the “Candidates”) by the EYR Selection Committee (hereinafter, the “Selection Committee”) established within the Japan Society for the Promotion of Science. (Please see “2023 Review Guidelines for Leading Initiative for Excellent Young Researchers (LEADER)” for detailed review method.)

Based on the results of the review by the committee members at the Selection Committee, MEXT finalizes the EYR candidates and notify them via the electronic application system in October (tentative).

If a candidate declines to become an EYR candidate and has no intention of participating in the negotiation among the parties, he or she needs to notify the intention to decline from being a candidate to MEXT using the Declination by the Excellent Young Researcher Candidate (Researcher Form 3) by sending it to the address described in III. 2. (iv) by mail.

3. Survey and questionnaire survey

To promote the science and technology innovative human resources development in Japan and improve the Leading Initiative for Excellent Young Researchers (LEADER), MEXT or JSPS will survey the EYR himself/herself on his/her research activity status in the year when the EYR is determined and for approximately the subsequent 10 years. Your cooperation is appreciated. We also plan to conduct a survey for researchers applying for this project, so we ask for your continued cooperation.

V. Points to be considered

The Support Institution and the EYR hired by the institution should pay attention to the following matters (1) through (18). In addition, the other research institutions and other applicants should pay attention to the following matters (16) through (18).

(1) Execution and management of the funding support project

Proper accounting management should be conducted for these Funds according to the “Act on Regulation of Execution of Budget Pertaining to Subsidies, etc.,” the “Order for Enforcement of the Act on Regulation of Execution of Budget Pertaining to Subsidies, etc.,” the “Guidelines for the Grant of Funds for the Development of Human Resources in Science and Technology,” and the “Guidelines for the Handling of Funds for the Development of Human Resources in Science and Technology.”

Clearly separate the accountings of this project from the others, prepare reports showing details of the income and expenditure, organize documentary evidence on income and expenditure, and save these reports and documents for five years from the fiscal year after the one in which the Funds were granted.

Furthermore, any purchased equipment, fixtures, etc., shall be managed under due care of a

prudent manager within the period of the funding support project and subsequently. Funds shall be managed efficiently according to the purpose of Funds.

(2) Improvement of the system according to the “Guidelines for the Management and Audit of Public Research Funds in Research Institutions (practice standards)”

In applying for this project and carrying out research, etc., research institutions need to comply with details of the “Guidelines for the Management and Audit of Public Research Funds in Research Institutions (practice standards)” (revised on Feb. 1, 2021)*. Research institutions shall strive to develop a management/auditing system for research funds under their responsibilities and execute proper research funds in accordance with the above Guidelines. If results of investigation into the system development status based on the above Guidelines lead MEXT to find deficiency of the system development, etc. of a research institution, we may take measures against the institution to reduce indirect expenses of all competitive research funds allotted by MEXT and Incorporated Administrative Agencies under the jurisdiction of MEXT.

*Please refer to the following website pages of MEXT for the “Guidelines for the Management and Audit of Public Research Funds in Research Institutions (practice standards).”

[URL] https://www.mext.go.jp/a_menu/kansa/houkoku/1343904_21.htm

(3) Submission of a “Self-Evaluation Checklist on System Development, etc.” based on the “Guidelines for the Management and Audit of Public Research Funds in Research Institutions (practice standards)”

To apply for this project, research institutions need to submit “Self-Evaluation Checklist on System Development, etc.” (hereinafter, the “Checklist”), which is a report stating developments of a management/auditing system for research funds and the corresponding status based on the Guidelines. (An application without submitting the checklist is not accepted.)

For this reason, please download the form for FY2023 version of Checklist from e-Rad after checking the content of the MEXT webpage on or after April 1, 2023, fill out necessary information, and then upload the completed Checklist using e-Rad and submit it to the Office of Competitive Research Funding Administration, Science and Technology Policy Bureau of MEXT by the time of post offering.

Note that the research institutions that submitted FY2022 version of Checklist are allowed to apply for this project regardless of the above. In this case, however, please submit FY2023 version of Checklist by December 1, 2023. No submission is required for the institutions that do not receive any grant of Funds from MEXT and Incorporated Administrative Agencies under the jurisdiction of MEXT. For details of the Checklist submission method, refer to the following MEXT webpage.

[URL] https://www.mext.go.jp/a_menu/kansa/houkoku/1324571.htm

*Note: Please note that the checklist can only be submitted via e-Rad. Please be aware that registration of a research institution to e-Rad usually takes about two weeks. As for the detailed procedures concerning e-Rad use, refer to the following webpage.

[URL] <https://www.e-rad.go.jp/organ/index.html>

Note that as the above-mentioned Guidelines include the viewpoint of “promotion of information transmission/sharing,” please publish the approach for fraud prevention on the research institution's website, etc., and actively transmit information.

(4) Responses to the illegal use and receipt

The following strict measures are taken against the illegal use and receipt of research funds on this project (hereinafter, the “Illegal Use, etc.”).

- Measures for the cases where the Illegal Use, etc. is detected

(i) Measures, including revocation of the grant decision

Cancel/change the decision to grant Funds to a task where the Illegal Use, etc. is detected, and ask for the return of all or part of Funds. Furthermore, the decision to grant Funds may not be taken for the following financial year and beyond.

(ii) Measures to restrict applications and participation^{*1}, etc.

As shown in the following table, we will give a serious warning or take measures to restrict application to or participation in this project according to the extent of illegal actions, if a researcher has made the Illegal Use, etc. of the research funds of this project (including researchers involved in the conspiracy; (hereinafter, the “Researcher Who Has Made the Illegal Use, etc.”)) or if the researcher was not found to be involved in the Illegal Use, etc. but failed his/her duty to be a good administrator^{*2}.

In addition, the following outline of the Illegal Use, etc. may be provided to persons in charge of other competitive research funds involving other ministries and agencies: the name of the Researcher Who Has Made the Illegal Use, etc., project name, institution to which he/she belongs, research tasks, budget amount, research year, details of illegal action, etc., and details of implemented measures.

*1 “Applications and participation” means a suggestion of and an application for a new task, and new participation in research as a joint researcher, a research task in process (ongoing task) as a principal investigator or a joint researcher.

*2 The “researcher who failed his/her duty to be a good administrator” is a researcher whose illegal use or receipt, etc. is not recognized but who failed his/her duty to be a good administrator.

Those subjected to application restriction due to illegal use or receipt	Extent of illegal use		Period of application restriction* ³ (in principle, from the fiscal year following the fiscal year when Funds, etc. were returned* ⁴)
1. Researchers who have made the Illegal Use, etc., and those who have conspired the Illegal Use, etc.;	(1) Spend Funds for private purposes for their own benefit		10 years
	(2) Other than (1).	1) It is judged that the influence on the society is large and that the maliciousness of conduct is high.	5 years
		2) Other than 1) and 3)	2-4 years
		3) It is judged that the influence on the society is small and that the maliciousness of conduct is low.	1 year
2. A researcher who received competitive research funds through deception or other improper means, and a conspiratorial researcher			5 years
3. A researcher who was not directly involved in the Illegal Use but failed in his/her duty to be a good administrator and spend Funds			The upper limit is 2 years, the lower 1 reflecting severity of delinquency of the researchers who failed in their duty to be a good administrator

*³ In the following cases, a serious warning will be notified without restricting applications and participation.

- In 1., cases that are judged to have minor impact on the society and to be low in the maliciousness of conduct, and the illegally used amount is small.
- In 3., cases that are judged to have minor impact on the society and to be low in the maliciousness of conduct.

*⁴ Participant eligibility is restricted even for the fiscal year when Funds, etc. were returned.

(iii) Release of false cases

As a rule, MEXT publicizes an overview of the illegal case (system name, institution to which a researcher belongs, research year, details of illegal actions, and details of implemented measures) of researchers whose application to and participation in this project are restricted due to their Illegal Use, etc. of research funds or failure to fulfill their duty to be a good administrator.

Furthermore, in the “Guidelines for the Management and Audit of Public Research Funds in Research Institutions (practice standards),” as it stipulates that a research institution should

promptly publicize investigation results if the investigation finds any illegal action, thus, research institutions shall need to cope with it in accordance with the guidelines.

[URL] https://www.mext.go.jp/a_menu/kansa/houkoku/1364929.htm

- (5) Measures against researchers whose application and participation are restricted in the competitive research fund system and other Funds for the Development of Human Resources in Science and Technology.

Suppose due to Illegal Use, etc. of research funds, researchers are restricted in other competitive fund systems* and other fund projects for the Development of Human Resources in Science and Technology involving other ministries and agencies. Their applications and participation are also restricted in this project during the period when their applicant eligibility in such systems and projects is restricted.

The “other competitive research fund systems and other fund projects for the Development of Human Resources in Science and Technology” include the system which starts new public offering in and after FY2023. Furthermore, systems completed in or before FY2022 are also included.

*Please refer to the following website for the systems to be currently targeted.

[URL] <https://www8.cao.go.jp/cstp/compefund/>

- (6) Development of the system based on the “Guidelines for Responding to Misconduct in Research”

Research institutions are required to comply with the “Guidelines for Responding to Misconduct in Research” (Adopted on August 26, 2014 by the Minister of MEXT)* in applying for this project and implementing research activities.

If results of investigation into the system development status based on the above Guidelines lead MEXT to find deficiency of the system development, etc. of an institution, we may take measures against the institution to reduce indirect expenses of all competitive research funds allotted by MEXT and Incorporated Administrative Agencies under the jurisdiction of MEXT.

*Please refer to the following website for the “Guidelines for Responding to Misconduct in Research.”

[URL] https://www.mext.go.jp/b_menu/houdou/26/08/1351568.htm

- (7) Submission of a Checklist on implementation status based on the “Guidelines for Responding to Misconduct in Research”

To apply for this project, each research institution is required to submit a “Checklist on implementation status based on the ‘Guidelines for Responding to Misconduct in Research’” (hereinafter, the “Checklist of misconduct in research activities”). (An application without submitting this checklist of misconduct is not accepted.)

For this reason, please download the form for FY2023 version of Checklist of misconduct in research activities from e-Rad after checking the content of the MEXT webpage on or after April 1, 2023, fill out necessary information, and then upload the completed Checklist using e-Rad and

submit it to the Office for Research Integrity Promotion Office, Research and Environment Division, Science and Technology Policy Bureau of MEXT by the time of post offering.

Note that the research institutions that submitted FY2022 version of Checklist of misconduct in research activities are allowed to apply for this project regardless of the above. In this case, however, please submit FY2023 version of Checklist by September 29, 2023. Submission of a Checklist of misconduct is required only to the institutions that carry out research activities by receiving an allocation of or measures for budget from MEXT and Incorporated Administrative Agencies under the jurisdiction of MEXT.

For the Checklist of misconduct in research activities, please refer to the following MEXT webpage.

[URL] https://www.mext.go.jp/a_menu/jinzai/fusei/1420301_00001.htm

*Note: Please note that the checklist can only be submitted via e-Rad. Please be aware that registration of a research institution to e-Rad usually takes about two weeks. As for the detailed procedures concerning e-Rad use, check the following website.

[URL] <https://www.e-rad.go.jp/organ/index.html>

(8) Measures against misconduct in research activities based on the “Guidelines for Responding to Misconduct in Research”

If any misconduct in research activities is found in this project, it will be handled strictly as described below.

(i) Measures, revocation of the grant decision

If any specified misconduct (forgery, interpolation, and theft) is found in the research tasks of this project, it will be possible to cancel/change the decision to grant Funds and ask for the return of all or part of Funds on a case-by-case basis. Furthermore, the decision to grant Funds may not be taken for the following financial year and beyond.

(ii) Measures to restrict applications and participation, etc.

As shown in the following table, we will take measures to restrict application to and participation in this project against a researcher who committed any specified misconduct in research paper(s), report(s), etc. in relation to this project and a researcher whose involvement in any specified misconduct is not recognized but who fails to fulfill his/her duty as a good researcher responsible for the paper(s), report(s), etc., thereby having a certain degree of responsibility, according to maliciousness of illegal actions and the extent of responsibilities.

In addition, when such restriction measures are taken, the information on misconduct may be provided to persons in charge of the competitive research fund systems implemented by MEXT and Incorporated Administrative Agencies of MEXT (hereinafter “MEXT-related Competitive Research Fund System, etc.”) and those in charge of the competitive research fund systems implemented by other ministries and agencies and their Incorporated Administrative Agencies (hereinafter, “Other Ministry and Agency-related Competitive Research Fund System, etc.”).

Then, applications and participation in “MEXT-related Competitive Research Fund System, etc.” and “Other Ministry and Agency-related Competitive Research Fund System” may also be restricted.

Those subjected to application restriction due to specified misconduct			Extent of any specified misconduct	Period of application restriction (from the fiscal year following the fiscal year when misconduct was recognized*)
Those involved in any specified misconduct	1. Especially malevolent person, who intends to commit specified misconduct from the very beginning of a research			10 years
	2. An author of thesis, etc., related to a research where specified misconduct is found	An author who is responsible for the thesis, etc., (supervisor, representative author, or a person certified as the one who bear responsibility equally with these persons)	It is judged that the influence on the research progress in the field and the society is large and that the maliciousness of conduct is high	5-7 years
			It is judged that the influence on the research progress in the field and the society is small and that the maliciousness of conduct is low	3-5 years
		Authors other than the above		2-3 years
	3. Those involved in any specified misconduct excluding 1. and 2.			2-3 years
	An author who is not involved in misconduct but is responsible for a thesis, etc., on the research where any specified misconduct is found (i.e., editorial supervisor, representative author, or a person recognized as bearing responsibility equivalent to that of these persons)		It is judged that the influence on the research progress in the field and the society is large and that the maliciousness of conduct is high	2-3 years
It is judged that the influence on the research progress in the field and the society is small and that the maliciousness of conduct is low			1-2 years	

(iii) Measures against researchers whose applications and participation are restricted in other competitive research fund systems, etc. and basic expenses

If applications and participation of researchers are restricted due to their misconduct in research activities utilizing MEXT-related Competitive Research Fund System, etc., operational grants for incorporated national universities, Inter-University Research Institute Corporations, and Incorporated Administrative Agencies under the jurisdiction of MEXT, basic expenses of subsidies to private schools, or other ministries and agencies-related competitive research fund systems, they are restricted from applying for and participating in this project during the period

restricted by such misconduct.

(iv) Release of false cases

If any misconduct in research activities is found in this project, as a rule, MEXT shall publicize details of the case (such as false case name, type of misconduct, research field of false case, name of expenses for which misconduct was carried out, overview of false case, measures taken by research institution, and measures by allocation agency).

In addition, the Guidelines for Responding to Misconduct in Research require research institutions to promptly publicize investigation results when any misconduct is found. Research institutions should properly satisfy this requirement.

[URL] https://www.mext.go.jp/a_menu/jinzai/fusei/1360483.htm

(9) Obligation to receive research ethics and compliance education

Researchers, etc. who participate in a research task in this project will take part in classes on research ethics education to prevent misconduct in research activities sought by the “Guidelines for Responding to Misconduct in Research” and on compliance education required by “Guidelines for the Management and Audit of Public Research Funds in Research Institutions.”

After a proposed education plan is selected, a person responsible for its implementation* needs to submit during the support application procedures a document that he/she will confirm that all participating researchers have taken research ethics and compliance education classes and understood the contents taught.

*The person responsible for its implementation basically is assumed to be the representative of the research institution or the person responsible for the project.

(Reference form)

(month) (day), (year)

TO: President of Japan Society for Promotion of Science

Dean of ○○ University

○○ ○○

Confirmation of the completion of research ethics and compliance education

We have confirmed that all the researchers, etc. who participate in the research tasks of this project attended classes on research ethics education required by the “Guidelines for Responding to Misconduct in Research” to prevent misconduct in research activities and on compliance education required by the “Guidelines for the Management and Audit of Public Research Expenditures in Research Institutions” and that all of them understood the content of such education.

(10) Measures to be taken in case of violating related laws and regulations, etc.

If a researcher violates related laws, regulations, or guidelines and carries out research activities, Funds may not be granted or the grant of Funds may be canceled, in addition to the researcher being subject to dispositions and penalties under the laws, regulations, etc.

(11) Security trade control (handling of technology leak outside Japan)

Research institutions work on research of numerous advanced technologies, and universities, in particular, face the risk of leak of advanced technology, research materials and equipment and their exploitation in development and manufacturing of weapon of mass destruction, etc., given the rise in the number of foreign students and researchers due to globalization. For this reason, in carrying out various research activities including delegated researches, research institutions are required to take systematic measures to prevent research results that may be utilized for military purposes from ending up in the hands of parties who might engage in the activities of concern, such as developers of weapon of mass destruction or terrorist groups.

In Japan, exports are controlled*¹ based on the Foreign Exchange and Foreign Trade Act (Act No. 228 of 1949; hereinafter referred to as the “Foreign Exchange Control Act”). Therefore, when a party trying to export (offer) goods and technologies controlled by the Foreign Exchange Control Act, it as a rule needs to obtain the permission of the Minister of Economy, Trade and Industry. Research institutions are requested to comply with the Foreign Exchange Control Act and other laws, ordinances, guidelines and notifications of the government. If a research institution violates related laws, ordinances or guidelines and carries out research, allocation of research funds may be suspended or the decision of allocation of research funds may be cancelled

in addition to legal disposition and penalties.

*1 At present, Japan's security trade control system consists of two systems based on international agreements, etc. of 1) a system requiring the permission of the Minister of Economy, Trade and Industry, as a rule, if a party tries to export (offer) goods (technology) with specs and functions of a certain level and above such as carbon fibers and numerical controlled machine tools (the List Control) and 2) a system requiring the permission of the Minister of Economy, Trade and Industry if a party tries to export (offer) goods (technology) that do not fall under the list control and satisfy certain requirements (application requirements, user requirements or inform requirements; Catch-all Control).

Not only exports of goods but also offering of technology is subject to the control by the Foreign Exchange Control Act. It is necessary to obtain permission in advance for offering List Control technologies to non-residents, including residents falling under the Specific Categories*², or outside Japan. Offering of technology includes not only offering of technical information such as design drawing, specifications, manual, test piece or prototype on paper, in e-mail or in memory medium such as CD, DVD or USB memory but also offering of operation knowledge through technology instructions and skill training as well as technology support in seminars. Acceptance of foreign students and joint research with them may also include ample transactions of technology that can be subject to control by the Foreign Exchange Control Act.

*2 This refers to the categories of residents who are heavily influenced by non-residents and refers to the specific categories stipulated in 1. (3)(sa)(i) to (iii) of "Notification for Transactions or Acts of Transferring Technology Requiring Permission pursuant to Article 25(1) of the Foreign Exchange and Foreign Trade Act and Article 17(2) of the Foreign Exchange Order".

Details of security export control are available on the websites of the Ministry of Economy, Trade and Industry and other organizations. See below for more information.

- Security export control (in general) by the Ministry of Economy, Trade and Industry
<https://www.meti.go.jp/policy/anpo/>
- Security export control handbook by the Ministry of Economy, Trade and Industry
<https://www.meti.go.jp/policy/anpo/seminer/shiryo/handbook.pdf>
- Center for Information on Security Trade Control
<http://www.cistec.or.jp/index.html>
- Guidance on sensible nuclear technology control in relation with security trade control (for universities and research institutions)
https://www.meti.go.jp/policy/anpo/law_document/tutatu/t07sonota/t07sonota_jishukanri03.pdf

(12) Promotion of public utilization of research facility/equipment

“Competitive Research Fund Reform toward Sustainable Creation of Research Results (interim

report)” (Investigative Commission on Competitive Research Expenditures Reform on June 24, 2015) stipulates relatively large-sized facility/equipment with high flexibility should be shared as a rule, on the condition of the full achievement of the very purpose of research.

In addition, “Sixth Science and Technology Innovation Basic Plan” (Cabinet Decision of March 26, 2021) and Integrated Innovation Strategy 2022 (Cabinet Decision of June 3, 2022) request promoting development and sharing of research equipment/facility, establishing a systematic mechanism to introduce, renew, and utilize research facility (core facility), and formulating and publicizing the sharing policy.

In March 2022, MEXT formulated the Guidelines for the Promotion of the Shared Use of Research Facilities and Equipment in order to promote the strategic maintenance, operation and shared use of research facilities and equipment at universities and other institutions.

In light of these, it is desirable to actively work on sharing research facility/equipment to be purchased through this project, especially the large-sized facility/equipment with high flexibility as far as they are properly managed in accordance with the management conditions of other research funds and the research facility/equipment sharing system of the institution or organization to which each researcher belongs, to the extent that does not interfere with the promotion of the research task for this project, and on utilizing those purchased by other research funds as well as on purchasing and sharing equipment using combined multiple research funds. In doing so, it is important to recognize that shared use is possible even during the project period in order to strengthen research capabilities through the use of state-of-the-art research equipment and facilities, and to further consider shared use. Please note that a balance must be struck between the management of shared equipment/facilities and their use to achieve the research objectives of the project.

In addition, it is also desirable to promote the sharing of research facilities/equipment beyond the framework of research organizations/institutions by actively striving to collaborate through the “University Collaboration Network for Efficient Utilization of Research Equipment” implemented by the Inter-University Research Institute Corporation of National Institutes of Natural Sciences (NINS) with the aim of interoperation of equipment throughout Japan, and through such established sharing systems at universities and other organizations as the Support Program for Implementation of New Shared Systems and the Support Program for Establishment of Core Facilities.

- “Competitive Research Fund Reform toward Sustainable Creation of Research Results (interim report)”
(Investigative Commission on Competitive Research Expenditures Reform on June 24, 2015)
https://www.mext.go.jp/b_menu/shingi/chousa/shinkou/039/gaiyou/1359306.htm
- “Sixth Science and Technology Innovation Basic Plan” (Cabinet Decision of March 26, 2021)
<https://www8.cao.go.jp/cstp/kihonkeikaku/6honbun.pdf>
- Integrated Innovation Strategy 2022 (Cabinet Decision of June 3, 2022)

- https://www8.cao.go.jp/cstp/tougosenryaku/togo2022_honbun.pdf
- “Unified Rules on Various Administrative Procedures, etc. in Competitive Research Funds”
[The agreement at the liaison meeting of relevant ministries and agencies on competitive research funds (March 5, 2021)]
https://www8.cao.go.jp/cstp/compefund/toitsu_rule_r30305.pdf
 - “Purchase of Shared Facility under Multiple Research Fund Systems (combined use)”
[The agreement between fund allocation agencies and relevant ministries and agencies in charge (revised on September 10, 2020)]
https://www.mext.go.jp/content/20200910-mxt_sinkou02-100001873.pdf
 - Guidelines for the Promotion of the Shared Use of Research Facilities and Equipment
(Formulated in March 2022)
https://www.mext.go.jp/content/20220329-mxt_kibanken01-000021605_2.pdf
Reference: Summary version / YouTube ; https://youtu.be/x29hH7_uNQo
 - “University Collaboration Network for Efficient Utilization of Research Equipment”
<https://chem-eqnet.ims.ac.jp/>
 - “Support Program for Introducing New Shared System,” “Support Program for Building Core Facility”
https://www.jst.go.jp/shincho/program/pdf/sinkyoyo_brochure2020.pdf

(13) Improvement of the treatment of students in doctoral course

In the “Sixth Science and Technology Innovation Basic Plan” (Cabinet Order of March 26, 2021), it is set out as a numeric target to aim at triplicating the number of doctoral course students who receive an amount equivalent to the cost of living (which corresponds to about 30% of all the students enrolled in doctoral programs who receive around an amount equivalent to the cost of living) so as to enhance financial support to graduate students, especially doctoral course students, and attract talented students and working adults from in and outside of Japan. The Basic Plan expects that “in order to promote payment of salary in an appropriate level as a research assistant (RA) to doctoral course students from the competitive research funds and joint research funds, each enterprise, university, and similar institution will formulate rules on the expenditures for RA costs relating to employment and rewards of RAs, etc. and implement the rules from FY2021” and requires expansion of employment and improvement of treatment of doctoral course students as RAs, etc. in each university and research and development corporation.

Furthermore, it is specified in the “Guidelines for employment and training of post-doctoral researchers.” (December 3, 2020 by MEXT’s Science and Technology Academic Council’s Personnel Committee) that doctoral course students are “not only students but also researchers, and improving the environment and ensuring appropriate treatment for conducting research activities is an important obligation as universities fostering researchers”; “it is particularly important to treat them based on appropriate evaluation of their contributions, such as setting up consideration that matches the nature and content of their duties and paying salary according to the hours during which they have engaged in the duties under the appropriate work management”;

and “universities, etc. need to review internal rules and regulations so that the costs required for hiring RAs can be recorded as direct expenses when applying for competitive research funds, etc. and consideration in an appropriate level can be paid to RAs.”

Based on these, please actively hire doctoral course students necessary for fulfilling research as RAs, etc., establish a unit price suitable for the nature and content of the duties, and pay a salary according to the hours during which they engage in the duties under the appropriate work management. In addition, when applying for this project, please submit an application based on the fund plan in consideration of the salary amount to doctoral course students as above.

(Points to be noted)

- In the “Sixth Science and Technology Innovation Basic Plan,” it is set out that the amount equivalent to the cost of living received by doctoral course students is 1.8 million yen per year. Furthermore, It is also set out to significantly increase the number of recipients, each receiving around 2.4 million yen per year in the level of Research Fellowship for Young Scientists (DC: doctoral course) to whom a fellowship grant is awarded, so that talented doctoral course students can dedicate themselves to their researches without feeling financial instability.
- “Guidelines for employment and training of post-doctoral researchers” indicates concerning the treatment when employing doctoral course students to carry out a research project that “the hourly payment of around 2,000 yen to 2,500 yen is considered standard in view of the average salary amount of specially appointed assistant professors, etc. who are employed through competitive research funds, etc.”
- (*) In view of the average salary amount of specially appointed assistant professors, etc. who are employed through competitive research funds, etc., the hourly payment of around 2,000 yen to 2,500 yen in the case of doctoral course students is considered standard. (According to the “Survey on the status of employment of teachers at research universities (preliminary figures)” released in August 2020, the median of the monthly salary amounts of specially appointed assistant professors lies in the category of 400,000 yen or more and less than 450,000 yen. Based on this category, the above hourly payment is calculated by dividing the median by the working hours (7 hours and 45 minutes to 8 hours) of actual working days (19 to 20 days) excluding holidays, etc. and then multiplying the resulting quotient by 0.8 in consideration of the position of doctoral course students.)
- Specific amount, period, and others of the payment shall be determined by research institutions. Payment of more or less than the above standard shall not be restricted.
- When hiring students as RAs, etc., please be thoughtful of not resulting in excessive working hours and give consideration to the balance with the research and study hours of doctoral course students themselves.

(14) Support for various career paths for young researchers

In the “Sixth Science and Technology Innovation Basic Policy” (Cabinet Decision of March 26, 2021) also sets a goal for building a “environment where talented young people can expect to be

active in various fields such as academia, industry, and administration.” Furthermore, the “Guidelines for employment and training of post-doctoral researchers” (December 3, 2020 by MEXT’s Science and Technology Academic Council’s Personnel Committee) state that “it is essential that post-doctoral human resources who have acquired advanced expertise and excellent research skills are active in a wide range of social settings, including venture companies and global companies and create innovations, and that the efforts to diversify career paths after the end of post-doctoral period are important.” Based on this, when public research institutes hire specially appointed teachers and post-doctoral or similar young researchers through public research funds (competitive research funds, other project research funds, and application type education and research funds for universities) after being selected in this application, we ask that the institutes actively make efforts to support the securing of various career paths for the young researchers.

(15) Securing of management personnel such as URA (University Research Administrator)

The “Sixth Science and Technology Innovation Basic Plan” (Cabinet Decision of March 26, 2021) indicates importance of efforts to guarantee quality and improve treatment of management personnel such as URAs as an expert profession so that such personnel becomes an attractive profession. In addition, the “Comprehensive Package for Enhancing Research Skills and Supporting Young Researchers” (Comprehensive Science and Technology Innovation Conference of January 23, 2020) also presents necessity for establishing career paths for management personnel, URAs, engineers, and the like.

Based on these, when hiring management personnel such as URAs through this project, public research institutes are requested to strive to secure the project implementing period as the length of fixed-term employment and to secure a particular term of employment to avoid, as far as possible, a short period of employment by utilizing indirect expenses or basic expenses of other outside funds, donations, or other funds.

In addition, we ask that public research institutes make active efforts, such as to have hired young researchers participate in URA training, etc. as a support to secure career paths for the management personnel. Also, please consider to make use of indirect expenses for the efforts.

Furthermore, this project expects the approach toward independent management after the end of the project implementing period. For this reason, if a fixed-term employment contract is concluded with the management personnel, it is desirable to introduce arrangements in which the management personnel may obtain a stable profession, for example by concluding an indefinite term employment contract as a result of appropriate evaluation.

(16) Registration of researcher information on researchmap

“researchmap” (<https://researchmap.jp/>) is a researcher information database which is one of the largest in Japan as a comprehensive list of researchers in Japan, where the registered information on achievements can be published. Since “researchmap” is linked to e-Rad and faculty databases at many universities, it also improves efficiency by eliminating the need for researchers to

repeatedly enter the same achievement details into different applications and databases.

As a side note, the information registered on researchmap is effectively utilized for surveys on science and technology policy planning of the government, etc. and for a statistical purposes. The applicants of this project are asked to cooperate with the registration on researchmap.

(17) Handling of personal information

The personal information contained in the application documents shall be properly managed in accordance with the “Act on the Protection of Personal Information Held by Administrative Organs,” and other relevant laws and regulations. Necessary measures shall be taken in managing personal information to prevent leakage or loss of and damage to the personal information or otherwise. The personal information is utilized by MEXT and JSPS to perform their operations (including the provision of information to the research institutions that offered posts as well as Bridge Promoters) (including the provision of personal information so that an outsourced private company, etc. can process and manage data by computer). In addition to this, MEXT may provide various information to the Cabinet Office via e-Rad managed and operated by MEXT (please refer to the terms of use and the personal information handling policy of e-Rad for details on handling of personal information in e-Rad use). To prepare such information, researchers may be asked to cooperate with a variety of work, confirmation of information, and similar tasks.

In addition, if an applicant is appointed as EYR, his/her name, areas of research, the employed research institution, etc. will be disclosed through MEXT website, etc. Furthermore, based on research results shown in III. 4. and IV. 3., EYRs' activities are released through MEXT website, etc.

Personal information of researchers residing in the European Economic Area (EEA) including EU (hereinafter, the “EEA Residents”) will be handled in accordance with the EU General Data Protection Regulation (GDPR) No. 2016/679. EEA Residents are therefore asked to check the following JSPS website.

- To those who reside in the European Economic Area (EEA)
[URL] https://www.jsps.go.jp/j-privacy_policy_guide/index.html
As for the contact information concerning handling of personal information, please also check the following MEXT website.
[URL] https://www.mext.go.jp/b_menu/koukai/kojin/1293439.htm

(18) The principle of self-responsibility

MEXT checks the post(s) offered by research institutions from the viewpoint of conformity with the requirements shown in II. 1. above. However, MEXT is not responsible for employment conditions determined as a result of negotiation among the parties between the research institutions and candidates, the subsequent research environment and the results of tenure reviews, etc.

VI. Contact Information

<Project in general>

Human Resources Policy Promotion Office, Human Resources Policy Division, Science and Technology Policy Bureau, MEXT

TEL: 03-5253-4111 (Extension 4021)

E-mail: takuetsu@mext.go.jp

<Preparation/submission of documents and granting and implementation of funds>

Human Resource Development Program Division, Japan Society for the Promotion of Science

Phone: 03-3263-3769 (application documents)

03-3263-0978 (funds)

E-mail: takuken@jsps.go.jp

(Appended Table-1)

[A] a. Research expenditures for EYRs

Expense items	Category	Remarks
Facility/ equipment expenses		Expenses to obtain, produce, or increase the efficiency of facility/equipment (Asset). *The purchase process/definition of facility/equipment is based on regulations, etc. of the institution. *Real estate and real estate ancillary facilities cannot be purchased (the definition is in accordance with the institution's regulations).
Salaries and other personal expenditures		Expenses to pay compensation for the labor to a person concluding an employment agreement etc. and engaged in a project. Legal welfare expenses borne by the employer. *Use the salary regulations of the institution to calculate salaries and other personal expenditures. *This cannot be appropriated for EYR's salaries and other personal expenditures.
Project implementation expenses	Expenses for consumable goods	Expenses to purchase products that do not fall under facility and equipment expenses. *The purchase process/definition of consumable goods is based on regulations, etc. of the institution.
	Domestic travel expenses	Expenses related to domestic business travels. The expenses include travel expenses related to invitation of domestic outside collaborators (excluding those who belong to an implementing institution). *Use the travel expense regulations of the institution to calculate travel expenses.
	Overseas travel expenses	Expenses related to overseas business travels (including domestic travels). *Use the travel expense regulations of the institution to calculate travel expenses.
	Travel expenses for foreign invitees	Expenses related to invite researchers, etc. from foreign countries. *Use the travel expense regulations of the institution to calculate travel expenses.
	Honoraria	Rewards for their attendance in a meeting and a lecture, etc. of outside collaborators (excluding those belonging to an implementing institution) *Use the reward regulations of the institution to calculate rewards.
	Meeting expenses	The minimum food expenses related to meetings including outsiders. *In providing food expenses, etc., the minimum is provided according to regulations of institutions. However, Funds cannot be expended for alcohol.
	Communication/ Transportation expenses	Expenses related to transportation of articles and data communication.
	Printing and binding expenses	Expenses related to printing and binding of documents, etc.
	Rental expenses	Expenses related to rental of conference sites, rental expenses of articles, etc., and rent.
	Miscellaneous service expenses	Expenses related to the services including data analysis, software development, etc. Expenses related to participation in an academic conference and submission of a thesis.
	Utility costs	Utility costs required to perform researches related to this project. *The utility costs not related to this project cannot be paid with these subsidies. Please clarify calculation grounds for the costs.

Note 1: Research expenditures for Excellent Young Researchers (EYR) cannot be diverted to costs of building research environment. Costs of building research environment may be diverted to research expenditures for EYRs, but it may not exceed the upper limit per annum of research expenditures for EYRs stipulated in the Application Guidelines.

Note 2: Research expenditures for EYRs and costs of building research environment cannot be put together and used.

(Appended Table-2)

[A] b. Costs of building research environment

Expense items	Category	Remarks
Facility/ equipment expenses		Expenses to obtain, produce, or increase the efficiency of facility/equipment (Asset). *The purchase process/definition of facility/equipment is based on regulations, etc. of the institution. *Real estate and real estate ancillary facilities cannot be purchased (the definition is in accordance with the institution's regulations).
Salaries and other personal expenditures		Expenses to pay compensation for the labor to a person concluding an employment agreement etc. and engaged in a project. Legal welfare expenses borne by the employer. *Use the salary regulations of the institution to calculate salaries and other personal expenditures. *This cannot be appropriated for EYR's salaries and other personal expenditures.
Project implementation expenses	Expenses for consumable goods	Expenses to purchase products that do not fall under facility and equipment expenses. *The purchase process/definition of consumable goods is based on regulations, etc. of the institution.
	Domestic travel expenses	Expenses related to domestic business travels. The expenses include travel expenses related to invitation of domestic outside collaborators (excluding those who belong to an implementing institution). *Use the travel expense regulations of the institution to calculate travel expenses.
	Overseas travel expenses	Expenses related to overseas business travels (including domestic travels). *Use the travel expense regulations of the institution to calculate travel expenses.
	Travel expenses for foreign invitees	Expenses related to invite researchers, etc. from foreign countries. *Use the travel expense regulations of the institution to calculate travel expenses.
	Honoraria	Rewards for attendance in a meeting and mentoring, etc. of outside collaborators (excluding those belonging to an implementing institution). Rewards for lectures, etc. *Use the reward regulations of the institution to calculate rewards.
	Meeting expenses	The minimum food expenses related to the opening of committee to evaluate EYRs (including outsiders). *In providing food expenses, etc., the minimum is provided according to regulations of institutions. However, Funds cannot be expended for alcohol.
	Communication/ Transportation expenses	Expenses related to transportation of articles and data communication.
	Printing and binding expenses	Expenses related to printing and binding of documents, etc.
	Rental expenses	Expenses related to rental of conference sites, rental expenses of articles, etc., and rent.
	Miscellaneous service expenses	Expenses related to the services such as dispatching of workers responsible for maintenance/management of computing machines and network, etc. and providing other supporting operations. Expenses related to participation in an academic conference and submission of a thesis.
	Utility costs	Utility costs required for the implementation of this project. *The utility costs not related to this project cannot be paid with these subsidies. Please clarify calculation grounds for the costs.

Note 1: Research expenditures for Excellent Young Researchers (EYR) cannot be diverted to costs of building research environment. Costs of building research environment may be diverted to research expenditures for EYRs, but it may not exceed the upper limit per annum of research expenditures for EYRs stipulated in the Application Guidelines.

Note 2: Research expenditures for EYRs and costs of building research environment cannot be put together and used.

Note 3: The expense can be used to build a framework for young researchers to carry out research in a stable and independent manner, but “young researchers” here do not include students.

(Appended Table-3)

[B] Industry-academia collaboration activity expenditures

Expense items	Category	Remarks
Joint research expenses		Joint research expenses paid to a university, etc. based on a joint research agreement with the university, etc.
Delegated research expenses		Delegated research expenses paid to a university, etc. based on a delegated research agreement with the university, etc.

Note 1: The expenditures cannot be diverted together with the research expenditures for EYRs and costs of building research environment.

Note 2: The expenditures cannot be put together and used with research expenditures for EYRs and costs of building research environment.

About Table of Research field/Research content

Table of Research field/Research content shows research fields and research contents for filling out the application form.

Keyword list offers some examples related research contents. They help applicants understand the concrete Research contents. However, it does not exclude field of contents of which are not included the examples.

<For Research institution>

Please refer to when selecting Research field and Keyword which are most suitable for post.

<For Researchers>

Review for EYR candidates' selection will be conducted in nine research fields (Humanities, Social sciences, Mathematical and physical sciences, Chemistry, Engineering sciences, Informatics, Biological sciences, Agriculture/Environmental sciences, Medicine dentistry and pharmacy).

Applicants should select a "Research content (Basic Section)" that is most suitable for their own research task.

Please note that, some items of Basic Section may be presented in plural Research content (Medium-sized Section) and Research field. If applicants select one of the Basic Section, then they should also select one from either Medium-sized Section or Research field.

研究分野・研究内容一覧 Table of Research field/Research content

(注) ※1 中区分の選択の必要がある小区分
 ※1 Basic Section that should also select Medium-sized Section
 ※2 研究分野の選択の必要がある小区分
 ※2 Basic Section that should also select Research field

研究分野 Research field	研究内容(中区分/小区分)	Research content (Medium-sized Section/Basic Section)
人文学 Humanities	11 思想、芸術およびその関連分野	11 Philosophy, art, and related fields
	01010 哲学および倫理学関連	01010 Philosophy and ethics-related
	01020 中国哲学、印度哲学および仏教学関連	01020 Chinese philosophy, Indian philosophy and Buddhist philosophy-related
	01030 宗教学関連	01030 Religious studies-related
	01040 思想史関連	01040 History of thought-related
	01050 美学および芸術論関連	01050 Aesthetics and art studies-related
	01060 美術史関連	01060 History of arts-related
	01070 芸術実践論関連	01070 Theory of art practice-related
	01080 科学社会学および科学技術史関連	01080 Sociology of science, history of science and technology-related
	90010 デザイン学関連 ※1	90010 Design-related ※1
	12 文学、言語学およびその関連分野	12 Literature, linguistics, and related fields
	02010 日本文学関連	02010 Japanese literature-related
	02020 中国文学関連	02020 Chinese literature-related
	02030 英文学および英語圏文学関連	02030 English literature and literature in the English language-related
	02040 ヨーロッパ文学関連	02040 European literature-related
	02050 文学一般関連	02050 Literature in general-related
	02060 言語学関連	02060 Linguistics-related
	02070 日本語学関連	02070 Japanese linguistics-related
	02080 英語学関連	02080 English linguistics-related
	02090 日本語教育関連 ※1	02090 Japanese language education-related ※1
	02100 外国語教育関連 ※1	02100 Foreign language education-related ※1
	90020 図書館情報学および人文社会情報学関連 ※1	90020 Library and information science, humanistic and social informatics-related ※1
社会科学 Social sciences	13 歴史学、考古学、博物館学およびその関連分野	13 History, archaeology, museology, and related fields
	03010 史学一般関連	03010 Historical studies in general-related
	03020 日本史関連	03020 Japanese history-related
	03030 アジア史およびアフリカ史関連	03030 History of Asia and Africa-related
	03040 ヨーロッパ史およびアメリカ史関連	03040 History of Europe and America-related
	03050 考古学関連	03050 Archaeology-related
	03060 文化財科学関連	03060 Cultural assets study-related
	03070 博物館学関連	03070 Museology-related
	14 地理学、文化人類学、民俗学およびその関連分野	14 Geography, cultural anthropology, folklore, and related fields
	04010 地理学関連	04010 Geography-related
	04020 人文地理学関連	04020 Human geography-related
	04030 文化人類学および民俗学関連	04030 Cultural anthropology and folklore-related
	80010 地域研究関連 ※1	80010 Area studies-related ※1
	80020 観光学関連 ※1	80020 Tourism studies-related ※1
	80030 ジェンダー関連 ※1	80030 Gender studies-related ※1
	21 法学およびその関連分野	21 Law and related fields
	05010 基礎法学関連	05010 Legal theory and history-related
	05020 公法学関連	05020 Public law-related
	05030 国際法学関連	05030 International law-related
	05040 社会法学関連	05040 Social law-related
	05050 刑事法学関連	05050 Criminal law-related
	05060 民事法学関連	05060 Civil law-related
	05070 新領域法学関連	05070 New fields of law-related
	22 政治学およびその関連分野	22 Political science and related fields
	06010 政治学関連	06010 Politics-related
	06020 国際関係論関連	06020 International relations-related
	80010 地域研究関連 ※1	80010 Area studies-related ※1
	80030 ジェンダー関連 ※1	80030 Gender studies-related ※1
	23 経済学、経営学およびその関連分野	23 Economics, business administration, and related fields
	07010 理論経済学関連	07010 Economic theory-related
	07020 経済学説および経済思想関連	07020 Economic doctrines and economic thought-related
	07030 経済統計関連	07030 Economic statistics-related
	07040 経済政策関連	07040 Economic policy-related
	07050 公共経済および労働経済関連	07050 Public economics and labor economics-related
	07060 金融およびファイナンス関連	07060 Money and finance-related
	07070 経済史関連	07070 Economic history-related
	07080 経営学関連	07080 Business administration-related
	07090 商学関連	07090 Commerce-related
	07100 会計学関連	07100 Accounting-related
	80020 観光学関連 ※1	80020 Tourism studies-related ※1
	24 社会学およびその関連分野	24 Sociology and related fields
	08010 社会学関連	08010 Sociology-related
	08020 社会福祉学関連	08020 Social welfare-related
	08030 家政学および生活科学関連	08030 Family and consumer sciences, and culture and living-related
	80020 観光学関連 ※1	80020 Tourism studies-related ※1
	80030 ジェンダー関連 ※1	80030 Gender studies-related ※1

研究分野・研究内容一覧 Table of Research field/Research content

(注) ※1 中区分の選択の必要がある小区分
 ※1 Basic Section that should also select Medium-sized Section
 ※2 研究分野の選択の必要がある小区分
 ※2 Basic Section that should also select Research field

研究分野 Research field	研究内容(中区分/小区分)	Research content (Medium-sized Section/Basic Section)
社会科学 (続き) Social sciences (continued)	25 教育学およびその関連分野	25 Education and related fields
	09010 教育学関連	09010 Education-related
	09020 教育社会学関連	09020 Sociology of education-related
	09030 子ども学および保育学関連	09030 Childhood and nursery/pre-school education-related
	09040 教科教育学および初等中等教育学関連	09040 Education on school subjects and primary/secondary education-related
	09050 高等教育学関連	09050 Tertiary education-related
	09060 特別支援教育関連	09060 Special needs education-related
	09070 教育工学関連	09070 Educational technology-related
	09080 科学教育関連	09080 Science education-related
	02090 日本語教育関連 ※1	02090 Japanese language education-related ※1
	02100 外国語教育関連 ※1	02100 Foreign language education-related ※1
	26 心理学およびその関連分野	26 Psychology and related fields
	10010 社会心理学関連	10010 Social psychology-related
	10020 教育心理学関連	10020 Educational psychology-related
	10030 臨床心理学関連	10030 Clinical psychology-related
	10040 実験心理学関連	10040 Experimental psychology-related
	90030 認知科学関連 ※1	90030 Cognitive science-related ※1
数物系科学 Mathematical and physical sciences	31 代数学、幾何学およびその関連分野	31 Algebra, geometry, and related fields
	11010 代数学関連	11010 Algebra-related
	11020 幾何学関連	11020 Geometry-related
	32 解析学、応用数学およびその関連分野	32 Analysis, applied mathematics, and related fields
	12010 基礎解析学関連	12010 Basic analysis-related
	12020 数理解析学関連	12020 Mathematical analysis-related
	12030 数学基礎関連	12030 Basic mathematics-related
	12040 応用数学および統計数学関連	12040 Applied mathematics and statistics-related
	33 物性物理学およびその関連分野	33 Condensed matter physics and related fields
	13010 数理論物理および物性基礎関連	13010 Mathematical physics and fundamental theory of condensed matter physics-related
	13020 半導体、光物性および原子物理関連	13020 Semiconductors, optical properties of condensed matter and atomic physics-related
	13030 磁性、超伝導および強相関系関連	13030 Magnetism, superconductivity and strongly correlated systems-related
	13040 生物物理、化学物理およびソフトマターの物理関連	13040 Biophysics, chemical physics and soft matter physics-related
	34 プラズマ学およびその関連分野	34 Plasma science and related fields
	14010 プラズマ科学関連	14010 Fundamental plasma-related
	14020 核融合学関連	14020 Nuclear fusion-related
	14030 プラズマ応用科学関連	14030 Applied plasma science-related
	80040 量子ビーム科学関連 ※1	80040 Quantum beam science-related ※1
	35 素粒子、原子核、宇宙物理学およびその関連分野	35 Particle-, nuclear-, astro-physics, and related fields
	80040 量子ビーム科学関連 ※1	80040 Quantum beam science-related ※1
	15010 素粒子、原子核、宇宙線および宇宙物理に関連する理論	15010 Theoretical studies related to particle-, nuclear-, cosmic ray and astro-physics
	15020 素粒子、原子核、宇宙線および宇宙物理に関連する実験	15020 Experimental studies related to particle-, nuclear-, cosmic ray and astro-physics
	36 天文学およびその関連分野	36 Astronomy and related fields
	16010 天文学関連	16010 Astronomy-related
	37 地球惑星科学およびその関連分野	37 Earth and planetary science and related fields
	17010 宇宙惑星科学関連	17010 Space and planetary sciences-related
	17020 大気水圏科学関連	17020 Atmospheric and hydrospheric sciences-related
	17030 地球人間圏科学関連	17030 Human geosciences-related
	17040 固体地球科学関連	17040 Solid earth sciences-related
	17050 地球生命科学関連	17050 Biogeosciences-related

研究分野・研究内容一覧 Table of Research field/Research content

(注) ※1 中区分の選択の必要がある小区分
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 ※2 研究分野の選択の必要がある小区分
 ※2 Basic Section that should also select Research field

研究分野 Research field	研究内容(中区分/小区分)	Research content (Medium-sized Section/Basic Section)
化学 Chemistry	41 物理化学、機能物性化学、無機・錯体化学、分析化学、無機材料化学、エネルギー関連化学およびその関連分野 物理化学、機能物性化学およびその関連分野 32010 基礎物理化学関連 32020 機能物性化学関連 無機・錯体化学、分析化学およびその関連分野 34010 無機・錯体化学関連 34020 分析化学関連 34030 グリーンサステイナブルケミストリーおよび環境化学関連 無機材料化学、エネルギー関連化学およびその関連分野 36010 無機物質および無機材料化学関連 36020 エネルギー関連化学	41 Physical chemistry, functional solid state chemistry, inorganic/coordination chemistry, analytical chemistry, inorganic materials chemistry, energy-related chemistry, and related fields Physical chemistry, functional solid state chemistry, and related fields 32010 Fundamental physical chemistry-related 32020 Functional solid state chemistry-related Inorganic/coordination chemistry, analytical chemistry, and related fields 34010 Inorganic/coordination chemistry-related 34020 Analytical chemistry-related 34030 Green sustainable chemistry and environmental chemistry-related Inorganic materials chemistry, energy-related chemistry, and related fields 36010 Inorganic compounds and inorganic materials chemistry-related 36020 Energy-related chemistry
	42 有機化学、高分子、有機材料、生体分子化学およびその関連分野 有機化学およびその関連分野 33010 構造有機化学および物理有機化学関連 33020 有機合成化学関連 高分子、有機材料およびその関連分野 35010 高分子化学関連 35020 高分子材料関連 35030 有機機能材料関連 生体分子化学およびその関連分野 37010 生体関連化学 37020 生体分子化学関連 37030 ケミカルバイオロジー関連	42 Organic chemistry, polymers, organic materials, biomolecular chemistry, and related fields Organic chemistry and related fields 33010 Structural organic chemistry and physical organic chemistry-related 33020 Synthetic organic chemistry-related Polymers, organic materials, and related fields 35010 Polymer chemistry-related 35020 Polymer materials-related 35030 Organic functional materials-related Biomolecular chemistry and related fields 37010 Bio-related chemistry 37020 Chemistry and chemical methodology of biomolecules-related 37030 Chemical biology-related
工学系科学 Engineering sciences	51 材料力学、生産工学、設計工学、原子力工学、地球資源工学、エネルギー学、流体工学、熱工学、機械力学、ロボティクス、航空宇宙工学、船舶海洋工学およびその関連分野 材料力学、生産工学、設計工学およびその関連分野 18010 材料力学および機械材料関連 18020 加工学および生産工学関連 18030 設計工学関連 18040 機械要素およびトライボロジー関連 原子力工学、地球資源工学、エネルギー学およびその関連分野 31010 原子力工学関連 31020 地球資源工学およびエネルギー学関連 流体工学、熱工学およびその関連分野 19010 流体工学関連 19020 熱工学関連 機械力学、ロボティクスおよびその関連分野 20010 機械力学およびメカトロニクス関連 20020 ロボティクスおよび知能機械システム関連 航空宇宙工学、船舶海洋工学およびその関連分野 24010 航空宇宙工学関連 24020 船舶海洋工学関連	51 Mechanics of materials, production engineering, design engineering, nuclear engineering, earth resources engineering, energy engineering, fluid engineering, thermal engineering, mechanical dynamics, robotics, aerospace engineering, marine and maritime engineering, and related fields Mechanics of materials, production engineering, design engineering, and related fields 18010 Mechanics of materials and materials-related 18020 Manufacturing and production engineering-related 18030 Design engineering-related 18040 Machine elements and tribology-related Nuclear engineering, earth resources engineering, energy engineering, and related fields 31010 Nuclear engineering-related 31020 Earth resource engineering, Energy sciences-related Fluid engineering, thermal engineering, and related fields 19010 Fluid engineering-related 19020 Thermal engineering-related Mechanical dynamics, robotics, and related fields 20010 Mechanics and mechatronics-related 20020 Robotics and intelligent system-related Aerospace engineering, marine and maritime engineering, and related fields 24010 Aerospace engineering-related 24020 Marine engineering-related
	52 電気電子工学、応用物理物性、応用物理工学およびその関連分野 電気電子工学およびその関連分野 21010 電力工学関連 21020 通信工学関連 21030 計測工学関連 21040 制御およびシステム工学関連 21050 電気電子材料工学関連 21060 電子デバイスおよび電子機器関連 応用物理物性およびその関連分野 29010 応用物性関連 29020 薄膜および表面界面物性関連 29030 応用物理一般関連 応用物理工学およびその関連分野 30010 結晶工学関連 30020 光工学および光子科学関連	52 Electrical and electronic engineering, applied condensed matter physics, applied physics and engineering, and related fields Electrical and electronic engineering and related fields 21010 Power engineering-related 21020 Communication and network engineering-related 21030 Measurement engineering-related 21040 Control and system engineering-related 21050 Electric and electronic materials-related 21060 Electron device and electronic equipment-related Applied condensed matter physics and related fields 29010 Applied physical properties-related 29020 Thin film/surface and interfacial physical properties-related 29030 Applied condensed matter physics-related Applied physics and engineering and related fields 30010 Crystal engineering-related 30020 Optical engineering and photon science-related

研究分野・研究内容一覧 Table of Research field/Research content

(注) ※1 中区分の選択の必要がある小区分
 ※1 Basic Section that should also select Medium-sized Section
 ※2 研究分野の選択の必要がある小区分
 ※2 Basic Section that should also select Research field

研究分野 Research field	研究内容(中区分/小区分)	Research content (Medium-sized Section/Basic Section)
工学系科学 (続き) Engineering sciences (continued)	53 土木工学、社会システム工学、安全工学、防災工学、建築学およびその関連分野 土木工学およびその関連分野 22010 土木材料、施工および建設マネジメント関連 22020 構造工学および地震工学関連 22030 地盤工学関連 22040 水工学関連 22050 土木計画学および交通工学関連 22060 土木環境システム関連 社会システム工学、安全工学、防災工学およびその関連分野 25010 社会システム工学関連 25020 安全工学関連 25030 防災工学関連 建築学およびその関連分野 23010 建築構造および材料関連 23020 建築環境および建築設備関連 23030 建築計画および都市計画関連 23040 建築史および意匠関連 90010 デザイン学関連 ※1	53 Civil engineering, social systems engineering, safety engineering, disaster prevention engineering, architecture, building engineering, and related fields Civil engineering and related fields 22010 Civil engineering material, execution and construction management-related 22020 Structure engineering and earthquake engineering-related 22030 Geotechnical engineering-related 22040 Hydroengineering-related 22050 Civil engineering plan and transportation engineering-related 22060 Environmental systems for civil engineering-related Social systems engineering, safety engineering, disaster prevention engineering, and related fields 25010 Social systems engineering-related 25020 Safety engineering-related 25030 Disaster prevention engineering-related Architecture, building engineering, and related fields 23010 Building structures and materials-related 23020 Architectural environment and building equipment-related 23030 Architectural planning and city planning-related 23040 Architectural history and design-related 90010 Design-related ※1
	54 材料工学、化学工学、ナノマイクロ科学およびその関連分野 材料工学およびその関連分野 26010 金属材料物性関連 26020 無機材料および物性関連 26030 複合材料および界面関連 26040 構造材料および機能材料関連 26050 材料加工および組織制御関連 26060 金属生産および資源生産関連 化学工学およびその関連分野 27010 移動現象および単位操作関連 27020 反応工学およびプロセスシステム工学関連 27030 触媒プロセスおよび資源化学プロセス関連 27040 バイオ機能応用およびバイオプロセス工学関連 ナノマイクロ科学およびその関連分野 28010 ナノ構造化学関連 28020 ナノ構造物理関連 28030 ナノ材料科学関連 28040 ナノバイオサイエンス関連 28050 ナノマイクロシステム関連	54 Materials engineering, chemical engineering, nano/micro science, and related fields Materials engineering and related fields 26010 Metallic material properties-related 26020 Inorganic materials and properties-related 26030 Composite materials and interfaces-related 26040 Structural materials and functional materials-related 26050 Material processing and microstructure control-related 26060 Metals production and resources production-related Chemical engineering and related fields 27010 Transport phenomena and unit operations-related 27020 Chemical reaction and process system engineering-related 27030 Catalyst and resource chemical process-related 27040 Biofunction and bioprocess engineering-related Nano/micro science and related fields 28010 Nanometer-scale chemistry-related 28020 Nanostructural physics-related 28030 Nanomaterials-related 28040 Nanobioscience-related 28050 Nano/micro-systems-related
	90 人間医学およびその関連分野 90110 生体医学工学関連 ※2 90120 生体材料学関連 ※2 90130 医用システム関連 ※2 90140 医療技術評価学関連 ※2 90150 医療福祉工学関連 ※2	90 Biomedical engineering and related fields 90110 Biomedical engineering-related ※2 90120 Biomaterials-related ※2 90130 Medical systems-related ※2 90140 Medical technology assessment-related ※2 90150 Medical assistive technology-related ※2
情報学 Informatics	61 情報科学、情報工学、応用情報学およびその関連分野 情報科学、情報工学およびその関連分野 60010 情報学基礎論関連 60020 数理情報学関連 60030 統計科学関連 60040 計算機システム関連 60050 ソフトウェア関連 60060 情報ネットワーク関連 60070 情報セキュリティ関連 60080 データベース関連 60090 高性能計算関連 60100 計算科学関連 応用情報学およびその関連分野 62010 生命、健康および医療情報学関連 62020 ウェブ情報学およびサービス情報学関連 62030 学習支援システム関連 62040 エンタテインメントおよびゲーム情報学関連 90020 図書館情報学および人文社会情報学関連 ※1	61 Information science, computer engineering, applied informatics, and related fields Information science, computer engineering, and related fields 60010 Theory of informatics-related 60020 Mathematical informatics-related 60030 Statistical science-related 60040 Computer system-related 60050 Software-related 60060 Information network-related 60070 Information security-related 60080 Database-related 60090 High performance computing-related 60100 Computational science-related Applied informatics and related fields 62010 Life, health and medical informatics-related 62020 Web informatics and service informatics-related 62030 Learning support system-related 62040 Entertainment and game informatics-related 90020 Library and information science, humanistic and social informatics-related ※1
	62 人間情報学およびその関連分野 61010 知覚情報処理関連 61020 ヒューマンインタフェースおよびインタラクション関連 61030 知能情報学関連 61040 ソフトコンピューティング関連 61050 知能ロボティクス関連 61060 感性情報学関連 90010 デザイン学関連 ※1 90030 認知科学関連 ※1	62 Human informatics and related fields 61010 Perceptual information processing-related 61020 Human interface and interaction-related 61030 Intelligent informatics-related 61040 Soft computing-related 61050 Intelligent robotics-related 61060 Kansei informatics-related 90010 Design-related ※1 90030 Cognitive science-related ※1

研究分野・研究内容一覧 Table of Research field/Research content

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 ※2 研究分野の選択の必要がある小区分
 ※2 Basic Section that should also select Research field

研究分野 Research field	研究内容(中区分/小区分)	Research content (Medium-sized Section/Basic Section)
生物系科学 Biological sciences	71 分子レベルから細胞レベルの生物学およびその関連分野	71 Biology at molecular to cellular levels, and related fields
	43010 分子生物学関連	43010 Molecular biology-related
	43020 構造生物化学関連	43020 Structural biochemistry-related
	43030 機能生物化学関連	43030 Functional biochemistry-related
	43040 生物物理学関連	43040 Biophysics-related
	43050 ゲノム生物学関連	43050 Genome biology-related
	43060 システムゲノム科学関連	43060 System genome science-related
	72 細胞レベルから個体レベルの生物学およびその関連分野	72 Biology at cellular to organismal levels, and related fields
	44010 細胞生物学関連	44010 Cell biology-related
	44020 発生生物学関連	44020 Developmental biology-related
	44030 植物分子および生理科学関連	44030 Plant molecular biology and physiology-related
	44040 形態および構造関連	44040 Morphology and anatomical structure-related
	44050 動物生理化学、生理学および行動学関連	44050 Animal physiological chemistry, physiology and behavioral biology-related
	73 個体レベルから集団レベルの生物学と人類学およびその関連分野	73 Biology at organismal to population levels and anthropology, and related fields
	45010 遺伝学関連	45010 Genetics-related
	45020 進化生物学関連	45020 Evolutionary biology-related
	45030 多様性生物学および分類学関連	45030 Biodiversity and systematics-related
	45040 生態学および環境学関連	45040 Ecology and environment-related
	45050 自然人類学関連	45050 Physical anthropology-related
	45060 応用人類学関連	45060 Applied anthropology-related
	74 神経科学およびその関連分野	74 Neuroscience and related fields
	46010 神経科学一般関連	46010 Neuroscience-general-related
	46020 神経形態学関連	46020 Anatomy and histopathology of nervous system-related
	46030 神経機能学関連	46030 Function of nervous system-related
農学・環境学 Agriculture /Environmental sciences	81 農芸化学およびその関連分野	81 Agricultural chemistry and related fields
	38010 植物栄養学および土壌学関連	38010 Plant nutrition and soil science-related
	38020 応用微生物学関連	38020 Applied microbiology-related
	38030 応用生物化学関連	38030 Applied biochemistry-related
	38040 生物有機化学関連	38040 Bioorganic chemistry-related
	38050 食品科学関連	38050 Food sciences-related
	38060 応用分子細胞生物学関連	38060 Applied molecular and cellular biology-related
	82 生産環境農学、社会経済農学、農業工学およびその関連分野	82 Agricultural and environmental biology, agricultural economics and rural sociology, agricultural engineering, and related fields
	生産環境農学およびその関連分野	Agricultural and environmental biology and related fields
	39010 遺伝育種科学関連	39010 Science in plant genetics and breeding-related
	39020 作物生産科学関連	39020 Crop production science-related
	39030 園芸科学関連	39030 Horticultural science-related
	39040 植物保護科学関連	39040 Plant protection science-related
	39050 昆虫科学関連	39050 Insect science-related
	39060 生物資源保全学関連	39060 Conservation of biological resources-related
	39070 ランドスケープ科学関連	39070 Landscape science-related
	社会経済農学、農業工学およびその関連分野	Agricultural economics and rural sociology, agricultural engineering, and related fields
	41010 食料農業経済関連	41010 Agricultural and food economics-related
	41020 農業社会構造関連	41020 Rural sociology and agricultural structure-related
	41030 地域環境工学および農村計画学関連	41030 Rural environmental engineering and planning-related
	41040 農業環境工学および農業情報工学関連	41040 Agricultural environmental engineering and agricultural information engineering-related
	41050 環境農学関連	41050 Environmental agriculture-related
	83 森林園科学、水圏応用科学およびその関連分野	83 Forestry and forest products science, applied aquatic science, and related fields
	40010 森林科学関連	40010 Forest science-related
	40020 木質科学関連	40020 Wood science-related
	40030 水圏生産科学関連	40030 Aquatic bioproduction science-related
	40040 水圏生命科学関連	40040 Aquatic life science-related
	84 獣医学、畜産学およびその関連分野	84 Veterinary medical science, animal science, and related fields
	42010 動物生産科学関連	42010 Animal production science-related
	42020 獣医学関連	42020 Veterinary medical science-related
	42030 動物生命科学関連	42030 Animal life science-related
	42040 実験動物学関連	42040 Laboratory animal science-related
	85 環境解析評価、環境保全対策およびその関連分野	85 Environmental analyses and evaluation, environmental conservation measure, and related fields
	環境解析評価およびその関連分野	Environmental analyses and evaluation and related fields
	63010 環境動態解析関連	63010 Environmental dynamic analysis-related
	63020 放射線影響関連	63020 Radiation influence-related
	63030 化学物質影響関連	63030 Chemical substance influence on environment-related
	63040 環境影響評価関連	63040 Environmental impact assessment-related
	環境保全対策およびその関連分野	Environmental conservation measure and related fields
	64010 環境負荷およびリスク評価管理関連	64010 Environmental load and risk assessment-related
	64020 環境負荷低減技術および保全修復技術関連	64020 Environmental load reduction and remediation-related
	64030 環境材料およびリサイクル技術関連	64030 Environmental materials and recycle technology-related
	64040 自然共生システム関連	64040 Social-ecological systems-related
	64050 循環型社会システム関連	64050 Sound material-cycle social systems-related
	64060 環境政策および環境配慮型社会関連	64060 Environmental policy and social systems-related

研究分野・研究内容一覧 Table of Research field/Research content

(注) ※1 中区分の選択の必要がある小区分
 ※1 Basic Section that should also select Medium-sized Section
 ※2 研究分野の選択の必要がある小区分
 ※2 Basic Section that should also select Research field

研究分野 Research field	研究内容(中区分/小区分)	Research content (Medium-sized Section/Basic Section)
医歯薬学 Medicine dentistry and pharmacy	91 薬学およびその関連分野	91 Pharmaceutical sciences and related fields
	47010 薬系化学および創薬科学関連	47010 Pharmaceutical chemistry and drug development sciences-related
	47020 薬系分析および物理化学関連	47020 Pharmaceutical analytical chemistry and physicochemistry-related
	47030 薬系衛生および生物化学関連	47030 Pharmaceutical hygiene and biochemistry-related
	47040 薬理学関連(A)	47040 Pharmacology-related(A)
	47050 環境および天然医薬資源学関連	47050 Environmental and natural pharmaceutical resources-related
	47060 医療薬学関連	47060 Clinical pharmacy-related
	92 生体の構造と機能およびその関連分野	92 Biomedical structure and function and related fields
	48010 解剖学関連	48010 Anatomy-related
	48020 生理学関連	48020 Physiology-related
	48030 薬理学関連(B)	48030 Pharmacology-related(B)
	48040 医化学関連	48040 Medical biochemistry-related
	93 病理病態学、感染・免疫学およびその関連分野	93 Pathology, infection/immunology, and related fields
	49010 病態医化学関連	49010 Pathological biochemistry-related
	49020 人体病理学関連	49020 Human pathology-related
	49030 実験病理学関連	49030 Experimental pathology-related
	49040 寄生虫学関連	49040 Parasitology-related
	49050 細菌学関連	49050 Bacteriology-related
	49060 ウイルス学関連	49060 Virology-related
	49070 免疫学関連	49070 Immunology-related
	94 腫瘍学、ブレインサイエンスおよびその関連分野	94 Oncology, brain sciences, and related fields
	腫瘍学およびその関連分野	Oncology and related fields
	50010 腫瘍生物学関連	50010 Tumor biology-related
	50020 腫瘍診断および治療学関連	50020 Tumor diagnostics and therapeutics-related
	ブレインサイエンスおよびその関連分野	Brain sciences and related fields
	51010 基盤脳科学関連	51010 Basic brain sciences-related
	51020 認知脳科学関連	51020 Cognitive and brain science-related
	51030 病態神経科学関連	51030 Pathophysiologic neuroscience-related
	95 内科学一般、器官システム内科学、生体情報内科学およびその関連分野	95 General internal medicine, organ-based internal medicine, internal medicine of the bio-information integration, and related fields
	内科学一般およびその関連分野	General internal medicine and related fields
	52010 内科学一般関連	52010 General internal medicine-related
	52020 神経内科学関連	52020 Neurology-related
	52030 精神神経科学関連	52030 Psychiatry-related
	52040 放射線科学関連	52040 Radiological sciences-related
	52050 胎児医学および小児成育学関連	52050 Embryonic medicine and pediatrics-related
	器官システム内科学およびその関連分野	Organ-based internal medicine and related fields
	53010 消化器内科学関連	53010 Gastroenterology-related
	53020 循環器内科学関連	53020 Cardiology-related
	53030 呼吸器内科学関連	53030 Respiratory medicine-related
	53040 腎臓内科学関連	53040 Nephrology-related
	53050 皮膚科学関連	53050 Dermatology-related
	生体情報内科学およびその関連分野	Internal medicine of the bio-information integration and related fields
	54010 血液および腫瘍内科学関連	54010 Hematology and medical oncology-related
	54020 膠原病およびアレルギー内科学関連	54020 Connective tissue disease and allergy-related
	54030 感染症内科学関連	54030 Infectious disease medicine-related
	54040 代謝および内分泌学関連	54040 Metabolism and endocrinology-related
	96 恒常性維持器官の外科学、生体機能および感覚に関する外科学およびその関連分野	96 Surgery of the organs maintaining homeostasis, surgery related to the biological and sensory functions, and related fields
	恒常性維持器官の外科学およびその関連分野	Surgery of the organs maintaining homeostasis and related fields
	55010 外科学一般および小児外科学関連	55010 General surgery and pediatric surgery-related
	55020 消化器外科学関連	55020 Digestive surgery-related
	55030 心臓血管外科学関連	55030 Cardiovascular surgery-related
	55040 呼吸器外科学関連	55040 Respiratory surgery-related
	55050 麻酔科学関連	55050 Anesthesiology-related
	55060 救急医学関連	55060 Emergency medicine-related
	生体機能および感覚に関する外科学およびその関連分野	Surgery related to the biological and sensory functions and related fields
	56010 脳神経外科学関連	56010 Neurosurgery-related
	56020 整形外科科学関連	56020 Orthopedics-related
	56030 泌尿器科学関連	56030 Urology-related
	56040 産婦人科学関連	56040 Obstetrics and gynecology-related
	56050 耳鼻咽喉科学関連	56050 Otorhinolaryngology-related
	56060 眼科学関連	56060 Ophthalmology-related
	56070 形成外科学関連	56070 Plastic and reconstructive surgery-related
	97 口腔科学およびその関連分野	97 Oral science and related fields
	57010 常態系口腔科学関連	57010 Oral biological science-related
	57020 病態系口腔科学関連	57020 Oral pathobiological science-related
	57030 保存治療系歯学関連	57030 Conservative dentistry-related
	57040 口腔再生医学および歯科医用工学関連	57040 Regenerative dentistry and dental engineering-related
	57050 補綴系歯学関連	57050 Prosthodontics-related
	57060 外科系歯学関連	57060 Surgical dentistry-related
	57070 成長および発育系歯学関連	57070 Developmental dentistry-related
	57080 社会系歯学関連	57080 Social dentistry-related

研究分野・研究内容一覧 Table of Research field/Research content

(注) ※1 中区分の選択の必要がある小区分
 ※1 Basic Section that should also select Medium-sized Section
 ※2 研究分野の選択の必要がある小区分
 ※2 Basic Section that should also select Research field

研究分野 Research field	研究内容(中区分/小区分)	Research content (Medium-sized Section/Basic Section)
医歯薬学 (続き) Medicine dentistry and pharmacy (continued)	98 社会医学、看護学、スポーツ科学、体育、健康科学およびその関連分野	98 Society medicine, nursing, sports sciences, physical education, health sciences, and related fields
	社会医学、看護学およびその関連分野	Society medicine, nursing, and related fields
	58010 医療管理学および医療系社会学関連	58010 Medical management and medical sociology-related
	58020 衛生学および公衆衛生学分野関連:実験系を含む	58020 Hygiene and public health-related: including laboratory approach
	58030 衛生学および公衆衛生学分野関連:実験系を含まない	58030 Hygiene and public health-related: excluding laboratory approach
	58040 法医学関連	58040 Forensics medicine-related
	58050 基礎看護学関連	58050 Fundamental of nursing-related
	58060 臨床看護学関連	58060 Clinical nursing-related
	58070 生涯発達看護学関連	58070 Lifelong developmental nursing-related
	58080 高齢者看護学および地域看護学関連	58080 Gerontological nursing and community health nursing-related
	スポーツ科学、体育、健康科学およびその関連分野	Sports sciences, physical education, health sciences, and related fields
	59010 リハビリテーション科学関連	59010 Rehabilitation science-related
	59020 スポーツ科学関連	59020 Sports sciences-related
	59030 体育および身体教育学関連	59030 Physical education, and physical and health education-related
	59040 栄養学および健康科学関連	59040 Nutrition science and health science-related
	90 人間工医学およびその関連分野	90 Biomedical engineering and related fields
	90110 生体医工学関連 ※2	90110 Biomedical engineering-related ※2
	90120 生体材料学関連 ※2	90120 Biomaterials-related ※2
	90130 医用システム関連 ※2	90130 Medical systems-related ※2
	90140 医療技術評価学関連 ※2	90140 Medical technology assessment-related ※2
	90150 医療福祉工学関連 ※2	90150 Medical assistive technology-related ※2

Keyword list

Research content (Basic Section)	Examples of related research content	Research content(Medium-sized Sections) and Research field corresponding Research content(Basic Sections)	
		Research content (Medium-sized Section)	Research field
01010	Philosophy and ethics-related	11	Humanities
	Philosophy in general, Ethics in general, Western philosophy, Western ethics, Japanese philosophy, Japanese ethics, Applied ethics, etc.		
01020	Chinese philosophy, Indian philosophy and Buddhist philosophy-related	11	Humanities
	Chinese philosophy/thought, Indian philosophy/thought, Buddhist philosophy, Bibliography, Philology, etc.		
01030	Religious studies-related	11	Humanities
	History of religions, Philosophy of religion, Theology, Sociology of religion, Psychology of religion, Anthropology of religion, Studies of religious folklore, Mythology, Bibliography, Philology, etc.		
01040	History of thought-related	11	Humanities
	History of thought in general, History of Western thought, History of Eastern thought, History of Japanese thought, History of Islamic thought, etc.		
01050	Aesthetics and art studies-related	11	Humanities
	Philosophy of art, Aesthetics, Music theory, Theatrical theory, Miscellaneous art studies, etc.		
01060	History of arts-related	11	Humanities
	Japanese art, Eastern art, Western art, Contemporary art, Craft, Design, Architecture, Costume, Photography, etc.		
01070	Theory of art practice-related	11	Humanities
	Art expression, Arts management, Art policy, Art production, etc.		
01080	Sociology of science, history of science and technology-related	11	Humanities
	Sociology of science, History of science, History of technology, History of medicine, Industrial archeology, Philosophy of science, Foundation of science, STS (Science, technology and society), etc.		
02010	Japanese literature-related	12	Humanities
	Japanese literature in general, Ancient literature, Medieval literature, Chinese classics in Japan, Bibliography, Philology, Premodern literature, Modern literature, Contemporary literature, Literary theory, etc.		
02020	Chinese literature-related	12	Humanities
	Chinese literature, Bibliography, Philology, Literary theory, etc.		
02030	English literature and literature in the English language-related	12	Humanities
	English literature, American literature, Literature in the English language, Literary theory, Bibliography, Philology, etc.		
02040	European literature-related	12	Humanities
	French literature, Literature in the French language, German literature, Literature in the German language, Classics, Russian and East European literature, Literature in other European languages, Literary theory, Bibliography, Philology, etc.		
02050	Literature in general-related	12	Humanities
	Literature in other languages and areas, Literary theory, Comparative literature, Bibliography, Philology, Literature education, etc.		
02060	Linguistics-related	12	Humanities
	Phonetics/phonology, Semantics/pragmatics, Morphosyntax, Sociolinguistics, Contrastive linguistics, Psycholinguistics, Neurolinguistics, Historical linguistics, Corpus linguistics, Endangered and minority languages, etc.		

Keyword list

Research content (Basic Section)	Examples of related research content	Research content(Medium-sized Sections) and Research field corresponding Research content(Basic Sections)	
		Research content (Medium-sized Section)	Research field
02070	Japanese linguistics-related	12	Humanities
	Phonetics/phonology, Writing systems, Lexicon and semantics, Grammar, Stylistics, Pragmatics, Language life, Dialect, History of the Japanese language, History of Japanese linguistics, etc.		
02080	English linguistics-related	12	Humanities
	Phonetics/phonology, Lexicon and semantics, Grammar, Stylistics, Pragmatics, Sociolinguistics, Diversity of the English language, Corpus linguistics, History of the English language, History of English linguistics, etc.		
02090	Japanese language education-related	12, 25	Humanities, Social sciences
	Research on learners, Language acquisition, Teaching material, Curriculum evaluation, Japanese language education for specific purposes, Bilingual education, Research on teachers, Japanese language for Japanese language education, History of Japanese language education, Cross-cultural understanding, etc.		
02100	Foreign language education-related	12, 25	Humanities, Social sciences
	Learning method, Computer-assisted language learning (CALL), Teaching material, Language testing, Theory of second language acquisition, Early English education, History of foreign language education and language policies, Curriculum evaluation, Training foreign language teachers, Cross-cultural understanding, etc.		
03010	Historical studies in general-related	13	Humanities
	Historical theory, Historical methodology, Research in historical materials, Memory and medium, World history, History of cultural and diplomatic exchange, Comparative history, Global history, Environmental history, History of emotions, etc.		
03020	Japanese history-related	13	Humanities
	History of ancient Japan, History of medieval Japan, History of early modern Japan, History of modern Japan, History of local Japan, History of external relations, History of culture and religion, History of Japanese environment, History of Japanese city, Research in historical materials, etc.		
03030	History of Asia and Africa-related	13	Humanities
	Chinese history, East Asian history, Central Eurasian history, Southeast Asian history, Oceanian history, South Asian history, West Asian history, African history, History of cultural and diplomatic exchange, Research in historical materials, etc.		
03040	History of Europe and America-related	13	Humanities
	Ancient European history, Medieval European history, Modern and contemporary West European history, Modern and contemporary East European history, North and South American history, History of cultural and diplomatic exchange, Comparative history, Research in historical materials, etc.		
03050	Archaeology-related	13	Humanities
	Archaeology in general, Prehistoric archaeology, Historical archaeology, Japanese archaeology, Ancient civilizations, History of material culture, Experimental archaeology, Information archaeology, Study of buried cultural property, Ecological archeology, etc.		

Keyword list

Research content (Basic Section)	Examples of related research content	Research content(Medium-sized Sections) and Research field corresponding Research content(Basic Sections)	
		Research content (Medium-sized Section)	Research field
03060	Cultural assets study-related	13	Humanities
	Dating methods, Material analysis, Production techniques, Conservation science, Archaeological prospection, Plant and animal residues, Human remains, Cultural heritage, Cultural property policy, Restoration of cultural properties, etc.		
03070	Museology-related	13	Humanities
	Museum displays and exhibitions, Museum management, Museum collections and documentation, Museum conservation and preservation, Museum education and learning, Museum informatics and media studies, Museum finance and administration, History of museums and museology, etc.		
04010	Geography-related	14	Humanities
	Geography in general, Land use, Landscape, Environmental system, Geomorphology, Climatology, Hydrology, Cartography, Geographic information system, Regional planning, etc.		
04020	Human geography-related	14	Humanities
	Human geography in general, Economic geography, Social geography, Political geography, Cultural geography, Urban geography, Rural geography, Historical geography, Regional geography, Geography education, etc.		
04030	Cultural anthropology and folklore-related	14	Humanities
	Cultural anthropology in general, Folklore in general, Material culture, Ecology, Social relationship, Religion, Arts, Health care, Border crossing, Minority, etc.		
80010	Area studies-related	14, 22	Humanities, Social sciences
	Area studies in general, Cross-regional comparative studies, Aid, Social development, Interregional exchange, Environment, Transnationalism, Globalization, Refugees, Conflict, etc.		
80020	Tourism studies-related	14, 23, 24	Humanities, Social sciences
	Tourism studies in general, Tourism resources, Tourism policy, Tourism industry, Tourist area, Tourists, Tourism culture, Tourism media, Sustainable tourism, Tourism ethics, etc.		
80030	Gender studies-related	14, 22, 24	Humanities, Social sciences
	Gender studies in general, Feminism, Men's studies, Sexuality, Queer studies, Labor, Violence, Prostitution, Reproductive technology, Gender equality, etc.		
05010	Legal theory and history-related	21	Social sciences
	Legal philosophy, Roman law, Legal history, Sociology of law, Comparative law, Foreign law, Law and policy, Law and economics, Judicial system, etc.		
05020	Public law-related	21	Social sciences
	Constitutional law, Administrative law, Tax law, etc.		
05030	International law-related	21	Social sciences
	Public international law, Private international law, International human rights law, International economic law, EU law, etc.		
05040	Social law-related	21	Social sciences
	Labor law, Economic law, Social security law, Education law, etc.		
05050	Criminal law-related	21	Social sciences
	Criminal law, Criminal procedure, Criminology, Criminal justice policy, Juvenile law, Law and psychology, etc.		

Keyword list

Research content (Basic Section)	Examples of related research content	Research content(Medium-sized Sections) and Research field corresponding Research content(Basic Sections)	
		Research content (Medium-sized Section)	Research field
05060	Civil law-related	21	Social sciences
	Civil law, Commercial law, Civil procedure, Insolvency law, Alternative dispute resolution, etc.		
05070	New fields of law-related	21	Social sciences
	Environmental law, Medical law, Information law, Consumer law, Intellectual property law, Law and gender, Legal profession, etc.		
06010	Politics-related	22	Social sciences
	Political theory, History of political thought, Political history, Political process, Political participation, Political economy, Public administration, Local government, Comparative politics, Public policy, etc.		
06020	International relations-related	22	Social sciences
	Theory of international relations, International history, Foreign policy, International security, International political economy, Global governance, International cooperation, Peace research, etc.		
07010	Economic theory-related	23	Social sciences
	Microeconomics, Macroeconomics, Game theory, Behavioral economics, Experimental economics, Economic theory, Evolutionary economics, Economic institutions, Economic systems, etc.		
07020	Economic doctrines and economic thought-related	23	Social sciences
	Economic doctrines, Economic thought, Social thought, Economic philosophy, etc.		
07030	Economic statistics-related	23	Social sciences
	Statistical system, Statistical research, Economic statistics, Big data, Econometrics, Financial econometrics, etc.		
07040	Economic policy-related	23	Social sciences
	Economic policy, Industrial organization, International economics, Development economics, Environmental and resource economics, Japanese economy, Regional economy, Urban economics, Transportation economics, Spatial economics, etc.		
07050	Public economics and labor economics-related	23	Social sciences
	Public finance, Public economics, Health economics, Labor economics, Social security, Education economics, Law and economics, Political economy, Demography, etc.		
07060	Money and finance-related	23	Social sciences
	Monetary economics, Finance, International finance, Corporate finance, Financial engineering, Insurance, etc.		
07070	Economic history-related	23	Social sciences
	Economic history, Business history, Industrial history, etc.		
07080	Business administration-related	23	Social sciences
	Organization theory, Corporate strategy, Organizational behavior, Corporation theory, Corporate governance theory, Human resource management, Technology/Innovation management theory, International business, Management information, Business administration in general, etc.		

Keyword list

Research content (Basic Section)	Examples of related research content	Research content(Medium-sized Sections) and Research field corresponding Research content(Basic Sections)	
		Research content (Medium-sized Section)	Research field
07090	Commerce-related	23	Social sciences
	Marketing, Consumer behavior, Distributive sciences, Logistics, Commerce in general, etc.		
07100	Accounting-related	23	Social sciences
	Financial accounting, Management accounting, Auditing, Accounting in general, etc.		
08010	Sociology-related	24	Social sciences
	Sociology in general, Community, Family, Labor, Stratification, Culture, Media, Ethnicity, Social movements, Social research, etc.		
08020	Social welfare-related	24	Social sciences
	Social work, Social policy, Social welfare history, Child welfare, Social welfare for people with disabilities, Social welfare for aging, Community welfare, Poverty, Volunteerism, Social welfare in general, etc.		
08030	Family and consumer sciences, and culture and living-related	24	Social sciences
	Dress and fashion, Diet habits, Housing, Family resource management, Family relations, Lifestyle, Culture and living, Family and consumer education, Family and consumer sciences in general, etc.		
09010	Education-related	25	Social sciences
	History of education, Philosophy of education, Curriculum and pedagogy, Teacher and trainer, School education, Social and community education, Institutions and administration, Comparative education, Educational administration, etc.		
09020	Sociology of education-related	25	Social sciences
	Sociology of education, Socialization, Educational community, Destination and career formation, Class disparities, Gender, Education policy, Globalization and development, etc.		
09030	Childhood and nursery/pre-school education-related	25	Social sciences
	Childhood, Nursery/pre-school education, Right of child, Development, Contents and methods of child care, Childcare facilities and kindergarten, Caregiver and pre-school teacher, Child care support, Childhood culture, History and thought, etc.		
09040	Education on school subjects and primary/secondary education-related	25	Social sciences
	Education of individual subjects, Lessons of each subject area, Instructional guidance, Teacher education, Special activities, Integrated studies, Moral education, etc.		
09050	Tertiary education-related	25	Social sciences
	Policy, Admission and articulation, Curriculum, Career guidance, Teacher and staff, Scientific research, Regional link and contribution, Globalization, Management and governance, Non-university higher education, etc.		
09060	Special needs education-related	25	Social sciences
	Philosophy and history, Inclusion and cohesive society, Instructions and supports, Developmental disabilities, Emotional disturbance, Intellectual disabilities, Language disorders, Physical disabilities, Career education, etc.		

Keyword list

Research content (Basic Section)	Examples of related research content	Research content(Medium-sized Sections) and Research field corresponding Research content(Basic Sections)	
		Research content (Medium-sized Section)	Research field
09070	Educational technology-related	25	Social sciences
	Curriculum development, Teaching-learning support systems, Utilization of media, Utilization of ICT, Teacher's education, Information literacy, etc.		
09080	Science education-related	25	Social sciences
	Science education, Science communication, Scientific literacy, Science and society, STEM education, etc.		
10010	Social psychology-related	26	Social sciences
	Social psychology in general, Self, Group, Attitude and behavior, Affection/emotion, Interpersonal relation, Social issues, Culture, etc.		
10020	Educational psychology-related	26	Social sciences
	Educational psychology in general, Development, Family, School, Clinical practice, Personality, Learning, Assessment and evaluation, etc.		
10030	Clinical psychology-related	26	Social sciences
	Clinical psychology in general, Psychological disorder, Assessment, Psychological intervention, Training, Mental health, Crime and delinquency, Community, etc.		
10040	Experimental psychology-related	26	Social sciences
	Experimental psychology in general, Sensation, Perception, Attention, Memory, Language, Emotion, Learning, etc.		
11010	Algebra-related	31	Mathematical and physical sciences
	Group theory, Ring theory, Representation theory, Algebraic combinatorics, Number theory, Arithmetic geometry, Algebraic geometry, Algebraic analysis, etc.		
11020	Geometry-related	31	Mathematical and physical sciences
	Differential geometry, Riemannian geometry, Symplectic geometry, Complex geometry, Topology, Differential topology, Low dimensional topology, etc.		
12010	Basic analysis-related	32	Mathematical and physical sciences
	Functional analysis, Complex analysis, Probability theory, Harmonic analysis, Operator theory, Spectral analysis, Operator algebras, Algebraic analysis, Representation theory, etc.		
12020	Mathematical analysis-related	32	Mathematical and physical sciences
	Functional equations, Real analysis, Dynamical system, Variational method, Nonlinear analysis, Applied analysis, etc.		
12030	Basic mathematics-related	32	Mathematical and physical sciences
	Mathematical logic and foundations, Information theory, Discrete mathematics, Computer mathematics, History of mathematics, etc.		
12040	Applied mathematics and statistics-related	32	Mathematical and physical sciences
	Numerical analysis, Mathematical modelling, Optimal control, Game theory, Statistical mathematics, etc.		

Keyword list

Research content (Basic Section)	Examples of related research content	Research content(Medium-sized Sections) and Research field corresponding Research content(Basic Sections)	
		Research content (Medium-sized Section)	Research field
13010	Mathematical physics and fundamental theory of condensed matter physics-related	33	Mathematical and physical sciences
	Statistical physics, Fundamental theory of condensed matter physics, Mathematical physics, Nonequilibrium nonlinear physics, Fluid dynamics, Computational physics, Quantum information theory, etc.		
13020	Semiconductors, optical properties of condensed matter and atomic physics-related	33	Mathematical and physical sciences
	Semiconductors, Dielectrics, Atoms and molecules, Mesoscopic systems, Crystals, Surfaces and interfaces, Optical properties of condensed matter, Quantum electronics, Quantum information, etc.		
13030	Magnetism, superconductivity and strongly correlated systems-related	33	Mathematical and physical sciences
	Magnetism, Strongly correlated electron systems, Superconductivity, Quantum fluids and solids, Molecular solids, etc.		
13040	Biophysics, chemical physics and soft matter physics-related	33	Mathematical and physical sciences
	Physics of biological phenomena, Physics of biological matters, Liquids and glasses, Soft matters, Rheology, etc.		
14010	Fundamental plasma-related	34	Mathematical and physical sciences
	Basic plasmas, Magnetized plasmas, Laser plasmas, Strongly coupled plasmas, Plasma diagnostics, Astrophysical and space plasmas, etc.		
14020	Nuclear fusion-related	34	Mathematical and physical sciences
	Plasma confinement, Plasma control, Plasma heating, Plasma diagnostics, Edge plasma, Plasma wall interaction, Inertial fusion, Fusion material, Fusion system, etc.		
14030	Applied plasma science-related	34	Mathematical and physical sciences
	Plasma processing, Plasma material science, General plasma applications, etc.		
80040	Quantum beam science-related	34, 35	Mathematical and physical sciences
	Accelerators, Beam physics, Radiation detectors, Beam control, Applied quantum beam science, etc.		
15010	Theoretical studies related to particle-, nuclear-, cosmic ray and astro-physics	35	Mathematical and physical sciences
	Particle physics, Nuclear physics, Cosmic-ray physics, Astrophysics, Relativity, Gravity, etc.		
15020	Experimental studies related to particle-, nuclear-, cosmic ray and astro-physics	35	Mathematical and physical sciences
	Particle physics, Nuclear physics, Cosmic-ray physics, Astrophysics, Relativity, Gravity, etc.		
16010	Astronomy-related	36	Mathematical and physical sciences
	Theoretical astronomy, Radio astronomy, Optical/infrared astronomy, X-ray/ γ -ray astronomy, Astrometry, Solar physics, Exoplanet astronomy, etc.		
17010	Space and planetary sciences-related	37	Mathematical and physical sciences
	Solar-terrestrial physics, Aeronomy, Planetary science, Exoplanetary science, Extraterrestrial material science, etc.		
17020	Atmospheric and hydrospheric sciences-related	37	Mathematical and physical sciences
	Climate system, Atmospheric science, Ocean science, Limnology, Glaciology, Paleoclimatology, etc.		
17030	Human geosciences-related	37	Mathematical and physical sciences
	Geoenvironmental science, Natural disaster science, Geospatial information science, Quaternary research, Earth resources science, etc.		

Keyword list

Research content (Basic Section)	Examples of related research content	Research content(Medium-sized Sections) and Research field corresponding Research content(Basic Sections)	
		Research content (Medium-sized Section)	Research field
17040	Solid earth sciences-related	37	Mathematical and physical sciences
	Solid earth geophysics, Geology, Earth's interior material science, Solid earth geochemistry, etc.		
17050	Biogeosciences-related	37	Mathematical and physical sciences
	Origin and evolution of life, Extremophile biology, Biogeochemistry, Paleoenvironmental science, Paleontology, etc.		
32010	Fundamental physical chemistry-related	41	Chemistry
	Gas, Liquid, Solid, Nanomaterials, Bio-related materials, Structure and properties, Chemical reactions, Spectroscopy, Theoretical calculation, Data science, etc.		
32020	Functional solid state chemistry-related	41	Chemistry
	Molecular materials, Inorganic compounds, Hybrid compounds, Colloids, Surface/interface, Electrical properties, Optical properties, Magnetic properties, Energy conversion, Catalysis, etc.		
34010	Inorganic/coordination chemistry-related	41	Chemistry
	Coordination chemistry, Organometallic chemistry, Inorganic solid-state chemistry, Bioinorganic chemistry, Solution chemistry, Clusters, Supramolecular complexes, Coordination polymers, Typical elements, Physical properties and functions, etc.		
34020	Analytical chemistry-related	41	Chemistry
	Spectrometric analysis, Advanced measurements, Surface/interface analysis, Separation analysis, Analytical reagents, Radiochemical analysis, Electrochemical analysis, Bioanalysis, New analysis methods, etc.		
34030	Green sustainable chemistry and environmental chemistry-related	41	Chemistry
	Green process, Green catalysts, Recycle, Environmental assessment, Environmentally conscious materials, Reduction of environmental load, Environmental restoration, Resource saving, Geochemistry, Environmental radioactivity, etc.		
36010	Inorganic compounds and inorganic materials chemistry-related	41	Chemistry
	Crystals, Amorphous, Ceramics, Semiconductors, Inorganic device-related materials, Low-dimensional compounds, Porous materials, Nanoparticles, Multicomponent compounds, Hybrid materials, etc.		
36020	Energy-related chemistry	41	Chemistry
	Energy resources, Energy conversion materials, Energy carriers, Solar energy utilization, Material separation, Catalytic transformation, Battery and electrochemical materials, Energy-saving materials, Renewable energy, Unused energy, etc.		
33010	Structural organic chemistry and physical organic chemistry-related	42	Chemistry
	Chemistry of organic crystals, Molecular recognition, Supermolecules, Functional organic molecules, Extended π -electron molecules, Organoelement chemistry, Reaction mechanism, Molecular chirality, Theoretical organic chemistry, etc.		
33020	Synthetic organic chemistry-related	42	Chemistry
	Development of reactions, Reaction mechanism, Selective reactions, Asymmetric synthesis, Development of catalysts, Biocatalysis, Sustainable organic synthesis, Natural product synthesis, Process chemistry, etc.		
35010	Polymer chemistry-related	42	Chemistry
	Polymer synthesis, Polymer reactions, Functional polymers, Self-assembled polymers, Non-covalent polymers, Chiral polymers, Bio-related polymers, Polymer properties, Polymer structures, Polymer interface, etc.		

Keyword list

Research content (Basic Section)	Examples of related research content	Research content(Medium-sized Sections) and Research field corresponding Research content(Basic Sections)	
		Research content (Medium-sized Section)	Research field
35020	Polymer materials-related	42	Chemistry
	Properties of polymer materials, Synthesis of polymer materials, Functional polymer materials, Environmentally friendly polymer materials, Liquid crystal polymers, Gel, Biopolymers, Polymer composites, Polymer processing, etc.		
35030	Organic functional materials-related	42	Chemistry
	Organic semiconductors, Liquid crystals, Optical materials, Device-related materials, Electrically conductive materials, Hybrid materials, Molecular functional materials, Organic hybrid materials, Materials for energy conversion, etc.		
37010	Bio-related chemistry	42	Chemistry
	Bioorganic chemistry, Bioinorganic chemistry, Biological reaction engineering, Biofunctional chemistry, Biofunctional materials, Biotechnology, etc.		
37020	Chemistry and chemical methodology of biomolecules-related	42	Chemistry
	Natural product chemistry, Biologically active compounds, Molecular mechanism of biological activities, Biofunctional molecules, Combinatorial chemistry, Metabolomic analysis, etc.		
37030	Chemical biology-related	42	Chemistry
	In vivo functional expression, Intracellular chemical reactions, Drug discovery science, Chemical library, Structure-activity relationship, Chemical probes, Biomolecular measurements, Molecular imaging, Proteomics, etc.		
18010	Mechanics of materials and materials-related	51	Engineering sciences
	Structural mechanics, Fatigue, Fracture, Biomaterials, Material design, Material characteristics, Material evaluation, etc.		
18020	Manufacturing and production engineering-related	51	Engineering sciences
	Machining, Non-traditional machining, Ultraprecision machining, Machine tools, Manufacturing systems, Precision metrology, Process planning, etc.		
18030	Design engineering-related	51	Engineering sciences
	Mechanical design, Product design, Design theory, Design for reliability, Optimal design, Computer-aided design, etc.		
18040	Machine elements and tribology-related	51	Engineering sciences
	Machine elements, Mechanisms, Tribology, Actuators, Micromachines, etc.		
31010	Nuclear engineering-related	51	Engineering sciences
	Reactor physics, Nuclear safety, Thermal-hydraulics and structure, Fuel material, Nuclear chemistry, Nuclear life cycle, Radiation safety, Radiation engineering, Fusion reactor engineering, Nuclear social environment, etc.		
31020	Earth resource engineering, Energy sciences-related	51	Engineering sciences
	Resource prospecting, Resource development, Resource cycle, Resource economy, Energy system, Environmental load, Renewable energy, Natural resources and energy policy, etc.		
19010	Fluid engineering-related	51	Engineering sciences
	Fluid machinery, Flow measurement, Computational fluid dynamics, Turbulence, Multiphase flow, Compressible flow, Incompressible flow, etc.		

Keyword list

Research content (Basic Section)	Examples of related research content	Research content(Medium-sized Sections) and Research field corresponding Research content(Basic Sections)	
		Research content (Medium-sized Section)	Research field
19020	Thermal engineering-related	51	Engineering sciences
	Heat transfer, Convection, Combustion, Thermophysical properties, Refrigeration and air-conditioning, Heat engine, Energy conversion, etc.		
20010	Mechanics and mechatronics-related	51	Engineering sciences
	Kinematics, Kinetics, Vibration, Acoustics, Automation, Biomechanics, Instrument and control applications, Mechatronics applications, etc.		
20020	Robotics and intelligent system-related	51	Engineering sciences
	Robotics, Intelligent system, Human mechanical system, Human interface, Planning, Intelligent spatial system, Virtual reality, Augmented reality, etc.		
24010	Aerospace engineering-related	51	Engineering sciences
	Thermo-fluid dynamics, Structural mechanics, Propulsion, Aerospace craft design, Production engineering, Aircraft system, Aerodynamics, Spacecraft system, Space utilization, etc.		
24020	Marine engineering-related	51	Engineering sciences
	Navigation, Structural mechanics, Structural design, Production technology, Marine propulsion, Marine transport, Marine development, Underwater engineering, Polar engineering, Marine environmental technology, etc.		
21010	Power engineering-related	52	Engineering sciences
	Electrical energy-related, Energy conservation, Power system engineering, Electric machinery, Power electronics, Effective utilization of electric energy, Electromagnetic compatibility, Wireless power transfer, etc.		
21020	Communication and network engineering-related	52	Engineering sciences
	Information theory, Nonlinear theory, Signal processing, Communication systems, Modulation/demodulation, Antennas, Networks, Multimedia, Cryptography/security, etc.		
21030	Measurement engineering-related	52	Engineering sciences
	Measurement theory, Measuring instruments, Applied wave metrology, Measurement systems, Signal processing, Sensing, etc.		
21040	Control and system engineering-related	52	Engineering sciences
	Control theory, System theory, Control systems, Knowledge-based control systems, System information processing, System control applications, Biosystems engineering, etc.		
21050	Electric and electronic materials-related	52	Engineering sciences
	Semiconductor, Dielectric materials, Magnetic materials, Organic materials, Superconductor, Composite materials, Thin films, Functional materials, Thick films, Fabrication/characterization methods, etc.		
21060	Electron device and electronic equipment-related	52	Engineering sciences
	Electron devices, Circuit design, Optical devices, Spintronic devices, Millimeter wave/terahertz wave, Applied wave devices, Storage devices, Displays, Process technology, Implementation technology, etc.		
29010	Applied physical properties-related	52	Engineering sciences
	Magnetic materials, Superconductors, Dielectrics, Fine particles, Liquid crystals, New functional materials, Molecular electronics, Bioelectronics, Spintronics, etc.		
29020	Thin film/surface and interfacial physical properties-related	52	Engineering sciences
	Thin-film engineering, Surface and interfacial engineering, Surface science, Vacuum, Measurement, Analysis, Nanoscopic technology, Advanced equipment, Electronics application, etc.		

Keyword list

Research content (Basic Section)	Examples of related research content	Research content(Medium-sized Sections) and Research field corresponding Research content(Basic Sections)	
		Research content (Medium-sized Section)	Research field
29030	Applied condensed matter physics-related	52	Engineering sciences
	Elementary quantities, Standards, Units, Physical quantity measurements and detection, Energy conversion, etc.		
30010	Crystal engineering-related	52	Engineering sciences
	Metal, Semiconductor, Ceramics, Amorphous, Crystal growth, Artificial structures, Device structure, Crystal characterization, Plasma process, etc.		
30020	Optical engineering and photon science-related	52	Engineering sciences
	Optical materials, Optical elements, Optical properties, Optical information processing, Laser, Optical sensing, Optical recording, Opto-electronics, Nonlinear optics, Quantum optics, etc.		
22010	Civil engineering material, execution and construction management-related	53	Engineering sciences
	Concrete, Steel, Composite material, Wood, Pavement material, Repair and reinforce material, Execution, Maintenance, Construction management, etc.		
22020	Structure engineering and earthquake engineering-related	53	Engineering sciences
	Applied mechanics, Structure engineering, Steel structure, Concrete structure, Composite structure, Wind engineering, Earthquake engineering, Aseismatic structure, Earthquake prevention, etc.		
22030	Geotechnical engineering-related	53	Engineering sciences
	Soil mechanics, Foundation engineering, Rock engineering, Engineering Geology, Ground behavior, Geotechnical structures, Geo-disaster prevention, Geo-environment, Tunnel engineering, etc.		
22040	Hydroengineering-related	53	Engineering sciences
	Hydraulics, Environmental hydraulics, Hydrology, River engineering, Water resource engineering, Coastal engineering, Port and harbor engineering, Ocean engineering, etc.		
22050	Civil engineering plan and transportation engineering-related	53	Engineering sciences
	Civil engineering plan, Regional urban planning, Spatial planning, Disaster prevention plan, Transportation plan, Transportation engineering, Railway engineering, Surveying and remote sensing, Landscape design, Civil engineering history, etc.		
22060	Environmental systems for civil engineering-related	53	Engineering sciences
	Environment plan, Environmental system, Environment conservation, Water serve and drainage systems, Waste, Water environment, Atmospheric circulation, Noise and vibration, Environment ecology, Environmental monitoring, etc.		
25010	Social systems engineering-related	53	Engineering sciences
	Social systems, Industrial engineering, Operations research, Industrial management, Reliability engineering, Policy science, Regulatory science, Quality control, etc.		
25020	Safety engineering-related	53	Engineering sciences
	Safety engineering, Safety system, Risk engineering, Risk management, Work safety, Industrial safety, Product safety, Safety information, Human engineering, Liability engineering, etc.		
25030	Disaster prevention engineering-related	53	Engineering sciences
	Disaster prediction, Hazard map, Building prevention against disaster, Lifeline prevention against disaster, Regional disaster prevention planning, Risk evaluation of disaster, Disaster prevention policy, Disaster resilience, etc.		
23010	Building structures and materials-related	53	Engineering sciences
	Load theory, Structural analysis, Structural design, Structures, Earthquake resistant design, Foundation, Geotechnics, Structural material, Maintenance, Building construction method, etc.		

Keyword list

Research content (Basic Section)	Examples of related research content	Research content(Medium-sized Sections) and Research field corresponding Research content(Basic Sections)	
		Research content (Medium-sized Section)	Research field
23020	Architectural environment and building equipment-related	53	Engineering sciences
	Sound environment, Vibration environment, Light environment, Heat environment, Air environment, Environmental psychology/physiology, Building equipment, Fire engineering, Urban environment, Environment design, etc.		
23030	Architectural planning and city planning-related	53	Engineering sciences
	Planning theory, Design theory, Housing theory, Buildings, Urban/regional planning, Administration, Building economics, Production management, Disaster prevention planning, Landscape, etc.		
23040	Architectural history and design-related	53	Engineering sciences
	Architectural history, Urban history, Architectural theory, Design, Landscape, Preservation, Renovation, etc.		
26010	Metallic material properties-related	54	Engineering sciences
	Electric and magnetic properties, Metastable states, Diffusion, Phase transformation, Phase diagram, Lattice defect, Mechanical properties, Thermal and optical properties, Materials computational science, Microstructure analysis, etc.		
26020	Inorganic materials and properties-related	54	Engineering sciences
	Functional ceramics, Glass, Engineering ceramics, Carbon-based materials, Crystal structure analysis, Microstructure, Electric properties, Mechanical properties, Physical and chemical properties, Grain boundary, etc.		
26030	Composite materials and interfaces-related	54	Engineering sciences
	Functional composite materials, Structural composite materials, Biocompatible composite materials, Polymer composite, Surface treatment, Bonding and joining, Interface properties, Gradient function, etc.		
26040	Structural materials and functional materials-related	54	Engineering sciences
	Infrastructural materials, Structural materials, Functional materials, Medical welfare materials, Reliability, Sensor materials, Energy materials, Battery materials, Environmental materials, etc.		
26050	Material processing and microstructure control-related	54	Engineering sciences
	Processing and molding, Molding, Weld joining, Crystal microstructure control, Laser processing, Precision processing, Polishing, Powder metallurgy, Coating, Corrosion and protection, etc.		
26060	Metals production and resources production-related	54	Engineering sciences
	Separation and purification, Melting and solidifying, Crystal growth, Casting, Scarce resources substitution, Low environment impact, Recycle, etc.		
27010	Transport phenomena and unit operations-related	54	Engineering sciences
	Phase equilibrium, Transport properties, Fluid-phase unit operation, Adsorption, Membrane separation, Stir mixing, Powder and particle, Crystallization, Film formation, Supercritical, etc.		
27020	Chemical reaction and process system engineering-related	54	Engineering sciences
	Reaction operation, Novel reaction process, Reaction mechanism, Reactor design, Materials synthesis process, Microreactor, Process control, Process system design, Process informatics, etc.		

Keyword list

Research content (Basic Section)	Examples of related research content	Research content(Medium-sized Sections) and Research field corresponding Research content(Basic Sections)	
		Research content (Medium-sized Section)	Research field
27030	Catalyst and resource chemical process-related	54	Engineering sciences
	Catalyst preparation, Catalytic function, Energy conversion process, Energy technology, Resources effective utilization technology, Catalytic material, Active site analysis, etc.		
27040	Biofunction and bioprocess engineering-related	54	Engineering sciences
	Biocatalyst engineering, Biofunction engineering, Food engineering, Medicochemical engineering, Bioproduction process, Bioreactor, Bioseparation, Biosensor, Biorefinery, etc.		
28010	Nanometer-scale chemistry-related	54	Engineering sciences
	Nanoparticle chemistry, Mesoscopic chemistry, Nanostructure control, Self-assembly, Nanocarbons, Molecular devices, Nanointerface function, Nanospace function, etc.		
28020	Nanostructural physics-related	54	Engineering sciences
	Physics in nanoscale materials and structures, Nanoprobes, Quantum dots, Quantum devices, Electron devices, Spin devices, Nano optical device, Nanotribology, Nanocarbon physics, etc.		
28030	Nanomaterials-related	54	Engineering sciences
	Creation of nanomaterials, Analysis of nanomaterials, Nanosurfaces and nanointerfaces, Functional nanomaterials, Nanoparticles, Carbon nanomaterials, Two-dimensional materials, Nanocrystalline materials, Nanocomposites, Nanofabrication process, etc.		
28040	Nanobioscience-related	54	Engineering sciences
	Biomolecular devices, Molecular manipulation, Molecular imaging, Nanomeasurements, Nanosynthesis, Single molecule science, Nano-bio interfaces, Biomolecular array, Genome engineering, etc.		
28050	Nano/micro-systems-related	54	Engineering sciences
	MEMS, NEMS, BioMEMS, Nano/micro-fabrication, Nano/micro-chemical systems, Nano/micro-biosystems, Nano/micro-mechanics, Nano/micro-sensors, etc.		
60010	Theory of informatics-related	61	Informatics
	Discrete structure, Mathematical logic, Theory of computation, Mathematical theory of programs, Computational complexity theory, Algorithm theory, Information theory, Coding theory, Theory of cryptography, Learning theory, etc.		
60020	Mathematical informatics-related	61	Informatics
	Optimization theory, Mathematical systems theory, System control theory, System analysis, System methodology, System modeling, System simulation, Combinatorial optimization, Queueing theory, Mathematical finance, etc.		
60030	Statistical science-related	61	Informatics
	Statistics, Data science, Modeling, Statistical inference, Multivariate analysis, Time series analysis, Statistical quality control, Applied statistics, etc.		
60040	Computer system-related	61	Informatics
	Computer architecture, Circuit and system, LSI design, LSI testing, Reconfigurable system, Dependable architecture, Low power technology, Hardware/software codesign, Embedded system, etc.		
60050	Software-related	61	Informatics
	Programming language, Programming methodology, Operating system, Parallel and distributed computing, Software engineering, Virtualization technology, Cloud computing, Software dependability, Software security, etc.		

Keyword list

Research content (Basic Section)	Examples of related research content	Research content(Medium-sized Sections) and Research field corresponding Research content(Basic Sections)	
		Research content (Medium-sized Section)	Research field
60060	Information network-related	61	Informatics
	Network architecture, Network protocol, Internet, Mobile network, Pervasive computing, Sensor network, IoT, Traffic engineering, Network management, Service platform technology, etc.		
60070	Information security-related	61	Informatics
	Cryptography, Tamper resistance technology, Authentication, Biometrics, Access control, Malware countermeasure, Countermeasures against cyber attacks, Privacy protection, Digital forensics, Security evaluation and authorization, etc.		
60080	Database-related	61	Informatics
	Data model, Database system, Multimedia database, Information retrieval, Content management, Metadata, Big data, Geographic information system, etc.		
60090	High performance computing-related	61	Informatics
	Parallel processing, Distributed processing, Cloud computing, Numerical analysis, Visualization, Computer graphics, High performance computing application, etc.		
60100	Computational science-related	61	Informatics
	Mathematical engineering, Computational mechanics, Numerical simulation, Multi-scale modeling, Large-scale computing, Massively parallel computing, Numerical computing methods, Advanced algorithms, etc.		
62010	Life, health and medical informatics-related	61	Informatics
	Bioinformatics, Life informatics, Biological information, Neuroinformatics, Neural information processing, Molecular computing, DNA computing, Medical information, Health information, Medical image, etc.		
62020	Web informatics and service informatics-related	61	Informatics
	Web system, Semantic web, Web mining, Social network analysis, Service engineering, Educational service, Medical service, Welfare service, Social service, Information culture, etc.		
62030	Learning support system-related	61	Informatics
	Media literacy, Learning media, Social media, Learning content, Learning management, Learning support, Remote learning, e-Learning, etc.		
62040	Entertainment and game informatics-related	61	Informatics
	Music information processing, 3D content, Animation, Game programming, Network entertainment, Media art, Digital museum, Experience design, etc.		
61010	Perceptual information processing-related	62	Informatics
	Pattern recognition, Image processing, Computer vision, Visual media processing, Acoustic media processing, Media editing, Media database, Sensing, Sensor fusion, etc.		
61020	Human interface and interaction-related	62	Informatics
	Human interface, Multi-modal interface, Human-computer interaction, Computer supported cooperative work, Virtual reality, Augmented reality, Realistic communication, Wearable device, Usability, Ergonomics, etc.		
61030	Intelligent informatics-related	62	Informatics
	Search, Inference, Machine learning, Knowledge acquisition, Intelligent system, Intelligent information processing, Natural language processing, Data mining, Ontology, Agent system, etc.		

Keyword list

Research content (Basic Section)	Examples of related research content	Research content(Medium-sized Sections) and Research field corresponding Research content(Basic Sections)	
		Research content (Medium-sized Section)	Research field
61040	Soft computing-related	62	Informatics
	Neural network, Evolutionary computation, Fuzzy theory, Chaos, Complex systems, Probabilistic information processing, etc.		
61050	Intelligent robotics-related	62	Informatics
	Intelligent robot, Behavior and environment recognition, Planning, Sensory behavior system, Autonomous system, Digital human, Real world information processing, Physical agents, Intelligent space, etc.		
61060	Kansei informatics-related	62	Informatics
	Kansei design, Kansei cognitive science, Kansei psychology, Kansei robotics, Kansei measurement evaluation, Kansei interface, Kansei physiology, Kansei material science, Kansei pedagogy, Kansei brain science, etc.		
43010	Molecular biology-related	71	Biological sciences
	Chromosome function, Chromatin, Epigenetics, Genome maintenance, Genome transmission, Chromosome re-organization, Gene expression, Non-coding RNA, Regulation of protein function, Molecular genetics, Regulation of RNA function, etc.		
43020	Structural biochemistry-related	71	Biological sciences
	Proteins, Nucleic acids, Lipids, Carbohydrates, Biological membrane, Molecular recognition, Denaturation, Three-dimensional structural analysis, Three-dimensional structural prediction, Molecular dynamics, etc.		
43030	Functional biochemistry-related	71	Biological sciences
	Enzymes, Sugar chain, Bioenergy conversion, Biological trace elements, Physiologically active substances, Cell signaling, Membrane transport, Proteolysis, Molecular recognition, Organelle, etc.		
43040	Biophysics-related	71	Biological sciences
	Structure biology, Physical property of biomolecules, Biomembrane, Photobiology, Molecular motor, Biometrics, Bioimaging, Systems biology, Synthetic biology, Theoretical biology, etc.		
43050	Genome biology-related	71	Biological sciences
	Genome organization, Genome function, Genome diversity, Molecular evolution of genome, Genome repair/maintenance, Trans-omics, Epigenome, Gene resource, Genome dynamics, etc.		
43060	System genome science-related	71	Biological sciences
	Network analyses, Synthetic biology, Biological databases, Bioinformatics, Genome analysis technology, Genome biotechnology, etc.		
44010	Cell biology-related	72	Biological sciences
	Cytoskeleton, Proteolysis, Organelle, Nuclear structure and function, Extracellular matrix, Signal transduction, Cell cycle, Cell motility, Cell-cell interaction, Cellular genetics, etc.		
44020	Developmental biology-related	72	Biological sciences
	Cell differentiation, Stem cells, Regeneration, Germ layer formation, Morphogenesis, Organogenesis, Fertilization, Germ cells, Developmental genetics, Evolution and development, etc.		

Keyword list

Research content (Basic Section)	Examples of related research content	Research content(Medium-sized Sections) and Research field corresponding Research content(Basic Sections)	
		Research content (Medium-sized Section)	Research field
44030	Plant molecular biology and physiology-related	72	Biological sciences
	Photosynthesis, Growth physiology, Plant development, Organelle, Cell wall, Responses to environment, Plant-microbe interaction, Metabolism, Plant molecular function, etc.		
44040	Morphology and anatomical structure-related	72	Biological sciences
	Morphology, Comparative morphology, Morphological modeling, Ultrastructure, Morphological image analysis, Tissue organization, Microscopic technology, Imaging, etc.		
44050	Animal physiological chemistry, physiology and behavioral biology-related	72	Biological sciences
	Metabolic physiology, Neurophysiology, Neuroethology, Behavioral physiology, Animal physiological chemistry, Chronobiology, Comparative physiology, Comparative endocrinology, Behavioral genetics, etc.		
45010	Genetics-related	73	Biological sciences
	Molecular genetics, Cellular genetics, Developmental genetics, Behavioral genetics, Population genetics, Quantitative trait, Population genomics, Genome-wide association study, Genetic diversity, Epigenome diversity, etc.		
45020	Evolutionary biology-related	73	Biological sciences
	Molecular evolution, Evolutionary genetics, Phenotypic evolution, Evolutionary developmental biology, Evolution of ecological traits, Evolution of behaviors, Experimental evolution, Coevolution, Speciation, Evolutionary theory, etc.		
45030	Biodiversity and systematics-related	73	Biological sciences
	Taxonomic characters, Taxon, Classification system, Molecular phylogeny, Phyletic evolution, Speciation, Natural history, Biogeography, Rare species conservation, Biodiversity, etc.		
45040	Ecology and environment-related	73	Biological sciences
	Chemical ecology, Molecular ecology, Physiological ecology, Evolutionary ecology, Behavioral ecology, Population ecology, Community ecology, Conservation ecology, Biological interactions, Material cycles in ecosystems, etc.		
45050	Physical anthropology-related	73	Biological sciences
	Morphology and function, Bioarchaeology, Biological mechanism, Genome, Evolutionary genetics, Behavior, Ecology, Comparative cognition, Primates, Growth and aging, etc.		
45060	Applied anthropology-related	73	Biological sciences
	Physiological anthropology, Ergonomics, Forensic anthropology, Medical anthropology, Physiological polymorphisms, Environmental adaptability, Somatic and physiological function, Anthropometry and bioengineering, Lifestyle, etc.		
46010	Neuroscience-general-related	74	Biological sciences
	Neurochemistry, Neuron, Glia, Genome, Epigenetics, Neurobiology, Information processing, Synapse, Neurogenesis, etc.		
46020	Anatomy and histopathology of nervous system-related	74	Biological sciences
	Neural development, Anatomy of nervous system, Neural network structure, Neuropathology, etc.		
46030	Function of nervous system-related	74	Biological sciences
	Neurophysiology, Neuropharmacology, Neurotransmission, Neuroinformatics, Behavioral neuroscience, Neural system physiology, Cerebral blood flow, Autonomic nervous system, etc.		

Keyword list

Research content (Basic Section)	Examples of related research content	Research content(Medium-sized Sections) and Research field corresponding Research content(Basic Sections)	
		Research content (Medium-sized Section)	Research field
38010	Plant nutrition and soil science-related	81	Agriculture/Environmental sciences
	Plant metabolism and physiology, Nutritional elements in plants, Soil classification, Soil physical chemistry, Soil organisms, etc.		
38020	Applied microbiology-related	81	Agriculture/Environmental sciences
	Microbial genetics/breeding, Microbial function, Microbial metabolism and physiology, Microbial applications, Control of microbes, Microbial ecology, Production of useful materials, etc.		
38030	Applied biochemistry-related	81	Agriculture/Environmental sciences
	Cellular biochemistry, Applied biochemistry, Structural biology, Regulation of bioactivity, Metabolism and physiology, Cellular function, Molecular function, Production of useful materials, etc.		
38040	Bioorganic chemistry-related	81	Agriculture/Environmental sciences
	Bioactive substances, Signal molecules, Natural products chemistry, Biosynthesis, Structure-activity relationship, Synthetic organic chemistry, Chemical biology, etc.		
38050	Food sciences-related	81	Agriculture/Environmental sciences
	Food function, Food chemistry, Nutritional chemistry, Food analysis, Food engineering, Food safety, Functional food, Nutritional epidemiology, Clinical nutrition, etc.		
38060	Applied molecular and cellular biology-related	81	Agriculture/Environmental sciences
	Molecular cell biology, Cellular bioengineering, Molecular engineering, Gene expression control, Cell-cell/intermolecular interactions, Cellular function, Production of useful materials, etc.		
39010	Science in plant genetics and breeding-related	82	Agriculture/Environmental sciences
	Genetic resources, Breeding theories, Genomic breeding, Plants with novel traits, Quality components, Stress tolerance, Yielding ability, Reproduction and multiplication, Growth physiology, Development, etc.		
39020	Crop production science-related	82	Agriculture/Environmental sciences
	Field crops, Crop yield, Crop product quality, Crop morphology, Growth prediction, Crop physiology, Field management, Low-cost cultivation techniques, Environmentally friendly agriculture, Field ecosystem, etc.		
39030	Horticultural science-related	82	Agriculture/Environmental sciences
	Plant growth, flowering, and fruit development, Nursery plant propagation and production, Crop production systems, Cultivation techniques, Protected horticulture, Controlled environment systems, Breeding and development of new cultivars, Quality of horticultural products, Postharvest physiology and management, Socio-horticulture, etc.		
39040	Plant protection science-related	82	Agriculture/Environmental sciences
	Plant pathology, Clinical plant science, Agricultural insect pest, Natural enemy, Weed, Agricultural chemicals, Integrated pest management, etc.		
39050	Insect science-related	82	Agriculture/Environmental sciences
	Sericulture insect technology, Insect genetics, Insect pathology, Insect physiology and biochemistry, Insect ecology, Chemical ecology, Systematics, Symbiosis and parasitism, Social insects, Medical entomology, etc.		
39060	Conservation of biological resources-related	82	Agriculture/Environmental sciences
	Conservation biology, Biodiversity conservation, Conservation of phylogenetic diversity, Genetic resources conservation, Ecosystem conservation, Conservation of microorganisms, Impacts of non-native species, etc.		

Keyword list

Research content (Basic Section)	Examples of related research content	Research content(Medium-sized Sections) and Research field corresponding Research content(Basic Sections)	
		Research content (Medium-sized Section)	Research field
39070	Landscape science-related	82	Agriculture/Environmental sciences
	Landscape architecture, Parks and open space planning, Landscape planning, Cultural landscape, Nature conservation, Landscape ecology, Parks and open space management, Parks, Environmental greening, Participatory community design, etc.		
41010	Agricultural and food economics-related	82	Agriculture/Environmental sciences
	Food economy, Agricultural production economy, Agricultural policy, Food system, Food marketing, International agricultural development, Trade of agricultural commodities and livestock products, Rural resources and environment, etc.		
41020	Rural sociology and agricultural structure-related	82	Agriculture/Environmental sciences
	Farm organization, Farm management, Agricultural structure, Agricultural market, Agricultural history, Rural society, Rural life, Agricultural cooperative, etc.		
41030	Rural environmental engineering and planning-related	82	Agriculture/Environmental sciences
	Irrigation and drainage, Reclamation and conservation of agricultural land, Rural planning, Rural environment, Circulation of resources and energy, Disaster prevention in rural area, Stock management of agricultural infrastructures, Hydrodynamics and hydrology, Soil physics, Design and construction materials, etc.		
41040	Agricultural environmental engineering and agricultural information engineering-related	82	Agriculture/Environmental sciences
	Agricultural production facilities, Bioproduction machinery, Environmental control, Agricultural meteorology and micrometeorology, Agricultural information, Greenhouse horticulture, Plant factory, Postharvest and supply chain, Nondestructive measurement, Remote sensing and geographic information system, etc.		
41050	Environmental agriculture-related	82	Agriculture/Environmental sciences
	Biomass, Environmental manipulation, Biodiversity, Environmental analysis, Ecosystem services, Resources circulation system, Low-carbon societies, Life-cycle assessment, Environmental friendly agriculture, Watershed management, etc.		
40010	Forest science-related	83	Agriculture/Environmental sciences
	Forest ecology, Forest biodiversity, Forest genetics and breeding, Silviculture, Forest protection, Forest environments, Erosion control, Forest utilization, Forest planning, Forest policy, etc.		
40020	Wood science-related	83	Agriculture/Environmental sciences
	Wood structure, Wood property, Lignocellulose, Trace element, Fungus, Wood processing, Biomass-refinery, Wood based material, Wooden building, Forest products education, etc.		
40030	Aquatic bioproduction science-related	83	Agriculture/Environmental sciences
	Aquatic environment, Fisheries, Aquatic resource management, Aquatic organisms, Aquatic ecosystem, Aquaculture, Fisheries engineering, Fishing community/fisheries policy, Fisheries economics/management/marketing, Fisheries education, etc.		
40040	Aquatic life science-related	83	Agriculture/Environmental sciences
	Aquatic nutrition, Aquatic pathology, Aquatic genetics/heredity/breeding, Aquatic physiology, Utilization of aquatic organisms and biomass, Aquatic biological chemistry, Aquatic biotechnology, Aquatic food sciences, etc.		

Keyword list

Research content (Basic Section)	Examples of related research content	Research content(Medium-sized Sections) and Research field corresponding Research content(Basic Sections)	
		Research content (Medium-sized Section)	Research field
42010	Animal production science-related	84	Agriculture/Environmental sciences
	Breeding/genetics, Reproduction, Nutrition/feeding, Anatomy/physiology, Product, Environment, Behavior, Therapy, Grassland, Grazing, etc.		
42020	Veterinary medical science-related	84	Agriculture/Environmental sciences
	Basic veterinary science, Pathological veterinary science, Applied veterinary science, Clinical veterinary science, Animal nursing, Animal welfare, Wildlife, etc.		
42030	Animal life science-related	84	Agriculture/Environmental sciences
	Homeostasis, Cellular function, Biological defense, Integrated genetics, Development/differentiation, Biotechnology, etc.		
42040	Laboratory animal science-related	84	Agriculture/Environmental sciences
	Genetic engineering, Developmental engineering, Animal models of disease, Facility management, Laboratory animal welfare, Laboratory animal-related technology, Bioresource, etc.		
63010	Environmental dynamic analysis-related	85	Agriculture/Environmental sciences
	Global warming, Environmental change, Water and material cycle, Ocean, Land, Polar regions, Environmental measurements, Environmental model, Environmental information, Remote sensing, etc.		
63020	Radiation influence-related	85	Agriculture/Environmental sciences
	Radiation, Measurement, Control, Repair, Biological effects, Risk, etc.		
63030	Chemical substance influence on environment-related	85	Agriculture/Environmental sciences
	Toxicology, Toxic substance to human, Trace chemical substance, Endocrine disruptor, Repair, etc.		
63040	Environmental impact assessment-related	85	Agriculture/Environmental sciences
	Atmosphere, Hydrosphere, Terrestrial impact, Impact assessment on human health, Social and economic impacts, Impact assessment on the future generation, Environmental impact assessment, Assessment methods, Monitoring, Simulation, etc.		
64010	Environmental load and risk assessment-related	85	Agriculture/Environmental sciences
	Environmental analysis, Environmental load analysis, Environmental monitoring, Pollution dynamics assessment, Evaluation of radioactive substances dynamics, Environmental modeling, Exposure assessment, Toxicity evaluation, Environmental assessment, Chemical substance management, etc.		
64020	Environmental load reduction and remediation-related	85	Agriculture/Environmental sciences
	Removal of contamination, Treatment of waste material, Control of contamination source, Disposal of waste material, Environmental load reduction, Remediation measure of contamination, Noise and vibration reduction, Countermeasure of ground settlement, Bioremediation, Radioactive decontamination, etc.		
64030	Environmental materials and recycle technology-related	85	Agriculture/Environmental sciences
	Recycle materials, Valuable materials recovery, Separation, refining and purification, Environment-conscious design, Recycle chemistry, Green production, Zero emission, Resource circulation, Renewable energy, Biomass utilization, etc.		
64040	Social-ecological systems-related	85	Agriculture/Environmental sciences
	Biodiversity, Conservation biology, Natural capital, Impact of climate change, Impact analysis on ecosystem, Ecosystem management, Ecosystem restoration, Ecosystem services, Natural tourism resources, Regional environmental planning, etc.		

Keyword list

Research content (Basic Section)	Examples of related research content	Research content(Medium-sized Sections) and Research field corresponding Research content(Basic Sections)	
		Research content (Medium-sized Section)	Research field
64050	Sound material-cycle social systems-related	85	Agriculture/Environmental sciences
	Sound material-cycle systems, Material and energy budget analysis, Low carbon society, Unused energy, Regional revitalization, Water use system, Industrial symbiosis, Life cycle assessment (LCA), Integrated environmental management, 3R (reduction, reuse, recycle) social systems, etc.		
64060	Environmental policy and social systems-related	85	Agriculture/Environmental sciences
	Environmental philosophy and ethics, Environmental laws, Environmental economics, Environmental information, Environmental education, Environmental activities, Environmental management and governance, Social and public system, Consensus forming, Sustainable development, etc.		
47010	Pharmaceutical chemistry and drug development sciences-related	91	Medicine dentistry and pharmacy
	Inorganic chemistry, Organic chemistry, Medicinal chemistry, Medicinal molecular design, Drug discovery, Bio-related materials, Chemical biology, etc.		
47020	Pharmaceutical analytical chemistry and physicochemistry-related	91	Medicine dentistry and pharmacy
	Environmental analysis, Bioanalysis, Physicochemistry, Biophysics, Structural biology, Radiochemistry, Bioimaging, Drug formulation design, Computer science, Information science, etc.		
47030	Pharmaceutical hygiene and biochemistry-related	91	Medicine dentistry and pharmacy
	Environmental hygiene, Healthful nutrition, Disease prevention, Toxicology, Drug metabolism, Host defense, Molecular biology, Cell biology, Biochemistry, etc.		
47040	Pharmacology-related(A)	91	Medicine dentistry and pharmacy
	Pharmacology, Pharmacogenomics, Applied pharmacology, Signal transduction, Drug interactions, Drug response, Pharmacotherapy, Pharmacotoxicology, etc.		
47050	Environmental and natural pharmaceutical resources-related	91	Medicine dentistry and pharmacy
	Environmental resource science, Natural products chemistry, Bioactive natural compounds, Medicinal resources, Medicinal foods, Pharmaceutical microbiology, etc.		
47060	Clinical pharmacy-related	91	Medicine dentistry and pharmacy
	Pharmacokinetics, Medical informatics, Social pharmacy, Clinical pharmacy, Pharmaceuticals, Regulatory science, Education for the pharmacist, etc.		
48010	Anatomy-related	92	Medicine dentistry and pharmacy
	Macroscopic anatomy, Histology, Embryology, etc.		
48020	Physiology-related	92	Medicine dentistry and pharmacy
	General physiology, Pathophysiology, Comparative physiology, Environmental physiology, etc.		
48030	Pharmacology-related(B)	92	Medicine dentistry and pharmacy
	Genomic pharmacology, Molecular and cellular pharmacology, Pathological pharmacology, Behavioral pharmacology, Pharmacology for drug discovery, Clinical pharmacology, etc.		
48040	Medical biochemistry-related	92	Medicine dentistry and pharmacy
	Biofunctional molecular and medical biochemistry, Genome medical sciences, Human genetics, Disease model, etc.		

Keyword list

Research content (Basic Section)	Examples of related research content	Research content(Medium-sized Sections) and Research field corresponding Research content(Basic Sections)	
		Research content (Medium-sized Section)	Research field
49010	Pathological biochemistry-related	93	Medicine dentistry and pharmacy
	Molecular pathology, Metabolic disorders, Molecular diagnosis, etc.		
49020	Human pathology-related	93	Medicine dentistry and pharmacy
	Molecular pathology, Cyto- and histo-pathology, Diagnostic pathology, etc.		
49030	Experimental pathology-related	93	Medicine dentistry and pharmacy
	Disease models, Pathological regulation, Tissue regeneration, etc.		
49040	Parasitology-related	93	Medicine dentistry and pharmacy
	Parasite, Vector organism, Parasite pathogenicity, Epidemiology of parasites, Control of parasite infections, etc.		
49050	Bacteriology-related	93	Medicine dentistry and pharmacy
	Bacterium, Fungus, Antimicrobial resistance, Bacterial pathogenicity, Epidemiology of bacteria, Control of bacterial infections, etc.		
49060	Virology-related	93	Medicine dentistry and pharmacy
	Virus, Prion, Viral pathogenicity, Epidemiology of viruses, Control of viral infections, etc.		
49070	Immunology-related	93	Medicine dentistry and pharmacy
	Immune system, Immune response, Inflammation, Immune-related disorder, Immune regulation, etc.		
50010	Tumor biology-related	94	Medicine dentistry and pharmacy
	Cancer and gene, Tumor development, Invasion, Metastasis, Cancer microenvironment, Cancer and signal transduction, Characteristics of cancer cells, Cancer and immune cells, etc.		
50020	Tumor diagnostics and therapeutics-related	94	Medicine dentistry and pharmacy
	Genome analysis, Diagnostic markers, Molecule imaging, Chemotherapy, Nucleic acid therapy, Gene therapy, Immunotherapy, Molecular targeted therapy, Physical therapy, Radiation therapy, etc.		
51010	Basic brain sciences-related	94	Medicine dentistry and pharmacy
	Brain-machine interface, Model animal, Computational brain science, Brain information decoding, Control technologies, Brain imaging, Brain biometrics, etc.		
51020	Cognitive and brain science-related	94	Medicine dentistry and pharmacy
	Social behavior, Communication, Emotion, Decision making, Consciousness, Learning, Neuroeconomics, Neuropsychology, etc.		
51030	Pathophysiologic neuroscience-related	94	Medicine dentistry and pharmacy
	Clinical neuroscience, Dolorology, Sensory impairment, Movement disorder, Neurological disorder, Neurogenesis, Neuroimmunology, Cellular degeneration, Disease model, etc.		

Keyword list

Research content (Basic Section)	Examples of related research content	Research content(Medium-sized Sections) and Research field corresponding Research content(Basic Sections)	
		Research content (Medium-sized Section)	Research field
52010	General internal medicine-related	95	Medicine dentistry and pharmacy
	Psychosomatic medicine, Laboratory medicine, General practice, Geriatrics, Psychosomatic internal medicine, Oriental medicine, Palliative medicine, etc.		
52020	Neurology-related	95	Medicine dentistry and pharmacy
	Neurology, Neurofunctional imaging, etc.		
52030	Psychiatry-related	95	Medicine dentistry and pharmacy
	Clinical psychiatry, Biological psychiatry, Forensic mental health, etc.		
52040	Radiological sciences-related	95	Medicine dentistry and pharmacy
	Diagnostic radiology, Therapeutic radiology, Radiation biology, Radiological technology, etc.		
52050	Embryonic medicine and pediatrics-related	95	Medicine dentistry and pharmacy
	Fetal medicine, Neonatal medicine, Pediatrics, etc.		
53010	Gastroenterology-related	95	Medicine dentistry and pharmacy
	Upper digestive tract, Lower digestive tract, Liver, Biliary tract, Pancreas, etc.		
53020	Cardiology-related	95	Medicine dentistry and pharmacy
	Ischemic heart disease, Valvular heart disease, Arrhythmia, Cardiomyopathy, Heart failure, Peripheral arterial disease, Arteriosclerosis, Hypertension, etc.		
53030	Respiratory medicine-related	95	Medicine dentistry and pharmacy
	Respiratory medicine, Asthma, Diffusive lung disease, COPD, Lung cancer, Pulmonary hypertension, etc.		
53040	Nephrology-related	95	Medicine dentistry and pharmacy
	Acute renal failure, Chronic kidney disease, Diabetic nephropathy, Hypertension, Aqueous electrolyte metabolism, Artificial dialysis, etc.		
53050	Dermatology-related	95	Medicine dentistry and pharmacy
	Dermatology, Cutaneous immune disease, Cutaneous infection, Cutaneous tumor, etc.		
54010	Hematology and medical oncology-related	95	Medicine dentistry and pharmacy
	Hematological oncology, Medical oncology, Hematological immunology, Anemia, Thrombosis and hemostasis, Chemotherapy, etc.		
54020	Connective tissue disease and allergy-related	95	Medicine dentistry and pharmacy
	Connective tissue disease, Allergy, Clinical immunology, Inflammation, etc.		
54030	Infectious disease medicine-related	95	Medicine dentistry and pharmacy
	Infection diagnostics, Infection therapeutics, Host defense, International infection science, etc.		
54040	Metabolism and endocrinology-related	95	Medicine dentistry and pharmacy
	Energy balance, Glucose metabolism, Lipid metabolism, Purine metabolism, Bone metabolism, Electrolyte balance, Endocrinology, Neuroendocrinology, Reproductive endocrinology, etc.		

Keyword list

Research content (Basic Section)	Examples of related research content	Research content(Medium-sized Sections) and Research field corresponding Research content(Basic Sections)	
		Research content (Medium-sized Section)	Research field
55010	General surgery and pediatric surgery-related	96	Medicine dentistry and pharmacy
	Surgical basic principles, Breast surgery, Endocrine surgery, Pediatric surgery, Transplant surgery, Artificial organs science, Regeneration, Operation support, etc.		
55020	Digestive surgery-related	96	Medicine dentistry and pharmacy
	Upper gastrointestinal surgery, Lower gastrointestinal surgery, Hepatic surgery, Biliary surgery, Pancreatic surgery, etc.		
55030	Cardiovascular surgery-related	96	Medicine dentistry and pharmacy
	Coronary artery surgery, Heart valve surgery, Surgery for myocardial disease, Aortic surgery, Vascular surgery, Congenital heart surgery, etc.		
55040	Respiratory surgery-related	96	Medicine dentistry and pharmacy
	Lung surgery, Mediastinal surgery, Chest wall surgery, Respiratory tract surgery, etc.		
55050	Anesthesiology-related	96	Medicine dentistry and pharmacy
	Anesthesiology, Perioperative management, Pain management, Resuscitology, Palliative medicine, etc.		
55060	Emergency medicine-related	96	Medicine dentistry and pharmacy
	Intensive care medicine, Emergency resuscitation science, Trauma surgery, Disaster medicine, Disaster medical care, etc.		
56010	Neurosurgery-related	96	Medicine dentistry and pharmacy
	Neurosurgery, Spine and spinal cord diseases, etc.		
56020	Orthopedics-related	96	Medicine dentistry and pharmacy
	Orthopedics, Rehabilitation medicine, Sports medicine, etc.		
56030	Urology-related	96	Medicine dentistry and pharmacy
	Urology, Male genitalia science, etc.		
56040	Obstetrics and gynecology-related	96	Medicine dentistry and pharmacy
	Obstetrics, Reproductive endocrinology, Gynecologic oncology, Female health care medicine, etc.		
56050	Otorhinolaryngology-related	96	Medicine dentistry and pharmacy
	Otorhinolaryngology, Head and neck surgery, etc.		
56060	Ophthalmology-related	96	Medicine dentistry and pharmacy
	Ophthalmology, Ophthalmological optics, etc.		
56070	Plastic and reconstructive surgery-related	96	Medicine dentistry and pharmacy
	Plastic surgery, Reconstructive surgery, Aesthetic plastic surgery, etc.		

Keyword list

Research content (Basic Section)	Examples of related research content	Research content(Medium-sized Sections) and Research field corresponding Research content(Basic Sections)	
		Research content (Medium-sized Section)	Research field
57010	Oral biological science-related	97	Medicine dentistry and pharmacy
	Oral anatomy, Oral histology and embryology, Oral physiology, Oral biochemistry, Pharmacology for hard tissues, etc.		
57020	Oral pathobiological science-related	97	Medicine dentistry and pharmacy
	Oral infectious diseases, Oral pathology, Oral experimental oncology, Immunity and inflammation, Laboratory medicine, etc.		
57030	Conservative dentistry-related	97	Medicine dentistry and pharmacy
	Operative dentistry, Endodontology, Periodontology, etc.		
57040	Regenerative dentistry and dental engineering-related	97	Medicine dentistry and pharmacy
	Regenerative dentistry, Biomaterial science, Dental materials science, Oral and maxillofacial prosthetics, Oral implantology, etc.		
57050	Prosthodontics-related	97	Medicine dentistry and pharmacy
	Prosthodontics, Oral rehabilitation, Gerodontology, etc.		
57060	Surgical dentistry-related	97	Medicine dentistry and pharmacy
	Oral and maxillofacial surgery, Oral maxillofacial reconstructive surgery, Dental anesthesiology, Psychosomatic medicine dentistry, Dental radiology, etc.		
57070	Developmental dentistry-related	97	Medicine dentistry and pharmacy
	Orthodontics, Pediatric dentistry, etc.		
57080	Social dentistry-related	97	Medicine dentistry and pharmacy
	Dental hygiene, Preventive dentistry, Oral health administration and management, Dental education, Forensic odontology, etc.		
58010	Medical management and medical sociology-related	98	Medicine dentistry and pharmacy
	Medical management, Medical social science, Ethics for medical science, Ethics for medical care, Biomedical education, History of medical science, Health policy and economics, Clinical trials, Health and medical services administration, Disaster medical science, etc.		
58020	Hygiene and public health-related: including laboratory approach	98	Medicine dentistry and pharmacy
	Hygiene, Public health, Epidemiology, Global health, etc.		
58030	Hygiene and public health-related: excluding laboratory approach	98	Medicine dentistry and pharmacy
	Hygiene, Public health, Epidemiology, Global health, etc.		
58040	Forensics medicine-related	98	Medicine dentistry and pharmacy
	Forensic medicine, Forensic pathology, Forensic toxicology, Forensic genetics, Suicide, Abuse, Clinical forensic medicine, Sudden death, etc.		
58050	Fundamental of nursing-related	98	Medicine dentistry and pharmacy
	Fundamental of nursing, Nursing education, Nursing administration, Nursing ethics, Global nursing, etc.		

Keyword list

Research content (Basic Section)	Examples of related research content	Research content(Medium-sized Sections) and Research field corresponding Research content(Basic Sections)	
		Research content (Medium-sized Section)	Research field
58060	Clinical nursing-related	98	Medicine dentistry and pharmacy
	Critical care and emergency nursing, Perioperative nursing, Nursing of chronic illness, Oncology nursing, Psychiatric nursing, Palliative care nursing, etc.		
58070	Lifelong developmental nursing-related	98	Medicine dentistry and pharmacy
	Women's health nursing, Maternal nursing, Midwifery, Family health nursing, Child health nursing, School nursing, etc.		
58080	Gerontological nursing and community health nursing-related	98	Medicine dentistry and pharmacy
	Gerontological nursing, Community health nursing, Public health nursing, Disaster nursing, Home care nursing, etc.		
59010	Rehabilitation science-related	98	Medicine dentistry and pharmacy
	Rehabilitation medicine, Rehabilitation nursing, Rehabilitation medical care, Physiotherapeutics, Occupational therapy, Assistive technology, Speech and language therapy, etc.		
59020	Sports sciences-related	98	Medicine dentistry and pharmacy
	Sports physiology, Sports biochemistry, Sports medicine, Sports sociology, Sports management, Sports psychology, Sports education, Training science, Sports biomechanics, Adapted sports science, etc.		
59030	Physical education, and physical and health education-related	98	Medicine dentistry and pharmacy
	Growth developmental science, Physical and health education, Physical education in school, Educational physiology, Physical systems science, Higher brain function science, Martial arts theory, Outdoor education, etc.		
59040	Nutrition science and health science-related	98	Medicine dentistry and pharmacy
	Nutritional physiology, Nutritional biochemistry, Nutritional education, Clinical nutrition, Functional food, Lifestyle-related disease, Health promotion, Aging, etc.		
90010	Design-related	11,53, 62	Humanities, Engineering sciences, Informatics
	Information design, Environmental design, Industrial design, Spatial design, Design history, Theory of design, Design standard, Design support, Evaluation of design, Design education, etc.		
90020	Library and information science, humanistic and social informatics-related	12, 61	Humanities, Informatics
	Library science, Information services, Information organizing, Information retrieval, Bibliometrics, Information resources, Information ethics, Digital humanities, Social Informatics, Digital archives, etc.		
90030	Cognitive science-related	26, 62	Social sciences, Informatics
	Cognitive science in general, Cognitive models, Kansei, Human factors, Cognitive and brain science, Comparative cognition, Cognitive linguistics, Cognitive engineering, etc.		
90110	Biomedical engineering-related	90	Engineering sciences, Medicine dentistry and
	Medical imaging, Medical modeling, Biological simulation, Biometrics, Artificial organs, Tissue engineering, Biophysical properties, Biocontrol, Biomechanics, Nanobio systems, etc.		
90120	Biomaterials-related	90	Engineering sciences, Medicine dentistry and pharmacy
	Biofunctional materials, Tissue engineering materials, Biocompatible materials, Nanobio materials, Drug delivery systems, Stimuli-sensitive materials, Genetic engineering material, etc.		
90130	Medical systems-related	90	Engineering sciences, Medicine dentistry and pharmacy
	Medical ultrasound system, Diagnostic imaging system, Laboratory diagnosis systems, Minimally invasive treatment systems, Remote diagnosis and treatment systems, Organ preservation systems, Medical information systems, Computer-assisted surgery, Medical robot, etc.		

Keyword list

Research content (Basic Section)	Examples of related research content	Research content(Medium-sized Sections) and Research field corresponding Research content(Basic Sections)	
		Research content (Medium-sized Section)	Research field
90140	Medical technology assessment-related	90	Engineering sciences, Medicine dentistry and
	Regulatory science, Safety evaluation, Clinical study, Medical technology ethics, Medical devices, etc.		
90150	Medical assistive technology-related	90	Engineering sciences, Medicine dentistry and pharmacy
	Healthcare and rehabilitation engineering, Life assist technology, Care support technology, Accessibility design, Universal design, Rehabilitation and nursing robot, Assist device for artificial internal organ, Rehabilitation devices, Nursing science and engineering, etc.		

FY2023

Leading Initiative for Excellent Young Researchers

Review Guidelines

Science and Technology Policy Bureau, MEXT

April 2023

1. Review System

The neutral official institution, the Japan Society for the Promotion of Science (hereinafter “JSPS”), supports the MEXT by establishing the Selection Committee for EYR candidates (hereinafter the “Selection Committee”) which consists of experts for reviewing the Leading Initiative for Excellent Young Researchers FY2023s, and is delegated to review for selecting the EYR candidates (hereinafter, the “Candidates”).

The review is conducted to select the Candidates through document screening by the Selection Committee members (hereinafter the “Committee Member(s)”.

MEXT will decide the candidates based on the results of document screening by the Committee Members.

2. Review Method

The review is conducted in the following methods per field set in consideration of posts offered by research institutions, and the research area of an applicant researcher (hereinafter, the “Applicant”).

(1) Document screening

- Based on “3. Review Perspectives” below, the Committee Members conduct screening of the application documents (Researcher Form 1 (including the Attachment) and Researcher Form 2) submitted by applicants.

(2) Determination of the EYR Candidates

- Based on results of the screening by the Committee Members, MEXT determines the EYR candidates.
- Overseas research experience, the diversity (research area, gender, etc.) of EYR candidates, the number of posts offered for each research area, and the number of applicants may be considered when the candidates are selected.

3. Review Perspectives

Major review perspectives are as follows:

- 1) The person is expected to be a good research leader who will play important roles in Japanese science and technology, academic researches and science technology innovation in the future.
- 2) The person has world-class research abilities and can be expected to develop a new research

or technology area, etc. (His/her overseas research experience will be taken into consideration.)

- 3) The purpose of research and research plan are good in a concrete and precise manner.
- 4) The person is highly motivated and flexible enough to succeed in an industry-academia-government research institution.

4. Others

(1) Disclosure/nondisclosure of the review

- Documents required for reviewing by the Committee Members will not be disclosed.
- No inquiries about the contents and development of the review will be responded to.
- The names of Committee Members will be disclosed only after the expiry of their terms.

(2) Matters to be observed by the Committee Members

1) Excluding the interested parties

- The Committee Member who has vested interest with the applicant will report the fact to the JSPS, saying he/she cannot join the review of the applicant. The member shall not join the review.

<Scope of interest>

- An applicant having a family relationship with the Committee Member
- The Committee Member currently holds an office as a full-time or part-time officer, staff, or teacher in the research institution the applicant belong to (including a scheduled one)
- The Committee Member determines for himself/herself that it is difficult to review in a neutral and fair manner

2) Confidentiality

- The Committee Member shall not leak any personal information acquired in the course of review and the information related to the details of reviewing the applicant. In addition, the information a Committee Member obtains, including various materials such as application documents, must be strictly managed.

Enter into the electronic application system to create this form.

(Researcher Form 1)

Leading Initiative for Excellent Young Researchers FY2023 Application Form

Receipt Number			
Field	Research field		Basic Section code
	Medium-sized Section		
	Basic Section		
	Specialized research field		

Keywords	
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Name (for display)			
Nationality		Gender	
Date of birth			
Contact (E-mail)			
researchmap			

Current affiliation	Name of institution		
	Institution type		
	Location	Postal code:	
	Name of department/section		
	Position		Employment status

Academic background for PhD	Academic status	
	Graduate school	
	Faculty	
	Major	
	Completed/ withdrawn YYYY/MM	
	Degree awarded date	
	Degree name	
Enrolled in the medical field which requires clinical training		

Research/job history	
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Research interruption due to childbirth/child care	
Research interruption period due to childbirth/child care	

Institution type interested in negotiation among the parties (Up to three)	<input type="checkbox"/> University <input type="checkbox"/> Inter-University Research Institute Corporation <input type="checkbox"/> College of technology <input type="checkbox"/> National Research and Development Agency <input type="checkbox"/> Public Research and Development Institute <input type="checkbox"/> Company etc.
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Other information to register

The items entered hereinafter are not used for screening nor displayed in documents that provide information to the institutions.

Institution type of first choice	
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Name (name on the family register)		
Current address	Postal code:	
	Tel:	Cell phone:

*It is possible to change the current address (contact E-mail) after submitting the application form, however, it will not be reflected in the PDF file created at the time of submission of the application form.

Agreement upon application

Please read the following notes before applying.

- 1) Please check if you do not agree to provide your information to the research institutions which offered the publicized posts at the time your application has been accepted. In addition, if you are selected as an Excellent Young Researcher Candidate, your name etc. will be listed on the "EYR Candidates list" and your information will be provided to the institutions. The information provided to the institutions is Form 1 and Form 1 Attachment.

☐ I do not agree to provide my information to the institutions at the time my application has been accepted.
- 2) Please check the box if you do not agree to provide your information to the agencies supporting negotiation among the parties at the time the agencies will be decided, after your application has been accepted. In addition, if you are selected as an Excellent Young Researcher Candidate, your name etc. will be listed on the "EYR Candidates list" and your information will be provided to the agencies. The information provided to the agencies supporting negotiation among the parties is Researcher Form 1, Form 1 Attachment, and "Institution type of first choice." Please confirm and agree to the conditions before filing the application.

☐ I do not agree to provide my information to the support agencies at the time the agencies will be decided after my application has been accepted.
☐ I agree to provide my information to the support agencies if I am selected as an Excellent Young Researcher candidate.

- 3) Before filing the application, please make sure you read the “Application Guidelines for FY 2023 Leading Initiatives for Excellent Young Researchers.” If major errors, omissions and the like are identified after the application is filed, the determination as an Excellent Young Researcher Candidate or as an Excellent Young Researcher may be revoked. Please confirm and agree to the conditions before filing the application.

☐ I read the “Application Guidelines for FY 2023 Leading Initiatives for Excellent Young Researchers” and understood the contents.

*As for handling of personal information, please refer to the Application Guidelines “V. Points to be considered (16) Handling of personal information”.

☐ I confirmed that there are no errors in the application above or attached separately.

Leading Initiative for Excellent Young Researchers FY 2023 Application Outline

1. Please describe the outline of your research contents in the Researcher Form 2, “Research theme that you want to address as an EYR.”

Research contents

2. Freely describe the points you would like to highlight about yourself to the research institution (your previous and future attitudes and stances toward research, experiences in research, qualification and skills, equipment you can use, your future direction as a research leader, and career vision). You may also describe the place where you wish to work, your motivation for doing research in another field, and your research records so far as necessary.

Points highlighted

This page will be provided to the research institutions and the agencies supporting negotiation among the parties as part of the applicant information. Therefore, please do not include confidential information that cannot be disclosed. Changes to the form or page additions are not allowed.

Research Plan for Leading Initiative for Excellent Young Researchers FY 2023

1) Research theme you want to address as an EYR

<Research purpose/content (such as setting of research agenda and awareness of the issues)>

In this column, please describe the specific purpose and its contents of the overall concept of the research that you want to conduct in a concrete and precise manner. Focus especially on the following points and describe them in a clear and detailed manner.

- Academic or social background of research (domestic and foreign trends and positions relating to this research, circumstances leading to the idea, setting of research agenda and awareness of the issues)
- The core of the problem and how you will clarify it.
- Setting of research agenda and awareness of the issues as a background of this research. Expected research achievements. New research areas which can be developed based on these achievements. The contents when utilizing and developing the results of research so far in other fields and industries or socially.

*The research content of EYR will be adjusted with the research institute that offered the post in negotiation among the parties and it is not a promise that the EYR can definitely engage in the research described in this column.

*Changes of the form and page additions are not allowed.

[Research purposes/contents]

1) Research theme you want to address as an EYR

<Research plan/method>

In this column, please describe the concrete research plan and method to achieve your research goal assuming the most recent 2 years. Describe them in a concrete and precise manner especially focusing on the following points.

- 1) Concrete ideas in carrying out this research (uniqueness, creativity, novelty, etc. of the idea in conducting research)
- 2) Concept of the research system assumed as the laboratory director (What kind of system do you assume to conduct research, such as the arrangement of postdoctoral fellows and graduate students, etc.? In case of a company, what kind of team and system do you assume as a project manager in order to conduct research?)

*Changes of the form and page additions are not allowed.

[Research plan/method]

2) Potential of becoming a successful leader at various research institutions

<My potential of becoming successful at various institutions, my strengths>

In this column, describe evidences and your own episodes that support your assertion to become a successful research leader such as research director and project manager who can excel beyond the boundaries of institutions, sectors and countries and be attractive to respective institutions.

*Changes of the form and page additions are not allowed.

[Evidences and episodes supporting your potential as a successful research leader]

3) Achievements

< 3 significant achievements, career events, experiences, etc.)>

In this column, describe three significant achievements, career events, experiences, etc. since 2018 related to your potential to be successful in the envisaged research concept and at various research institutions. Please describe briefly in accordance with the following points. If you describe papers that are contributing to an academic journal, please note that papers which have already been decided to be published can only be listed.

(Examples)

- 1) In the case of papers published, describe the paper title, author name, name of the journal the paper was published in, presence or absence of peer review, volume, the first and last pages and the year of publication (AD). If the above items are listed, the order of items can be changed. If there are many authors, entering several main authors and omitting others (if you omit them, enter the number of members omitted and the order listed) is allowed. In this case, underline the name of the applicant.
- 2) Describe the dates (such as year and date) and contents of career and experiences at various research institutions, such as work experience as a researcher at an organization (corporations, public research organizations, etc.) other than the university or Inter-University Research Institute Corporations, experiences of internship for 3 months or more, or research experience by belonging to an overseas research institution (including university) for 3 months or more.

*Changes of the form and page additions are not allowed.

[3 significant achievements, career events, experiences, etc.]

[3 significant achievements, career events, experiences, etc. (continued)]

3) Achievements

<List of other achievements, career events, experiences, etc.>

Describe important achievements, career events, experiences, etc. related to the research concept by numbering the year of publication serially from the present to the past focusing on the achievements since 2018. For those three described as the significant achievements, career events, experiences, etc. in the previous pages, circle the corresponding number.

*Changes of the form and page additions are not allowed.

[Other achievements, career events and experiences]

(Example of description

*The composition of the description item can be changed. Please delete here when describing.)

(1) Papers published in academic journals, etc. (including bulletins / collection of papers) and books

- ① Taro Gakushin, Hanako Hanzomon, ‘(Title),’ “(Name of Journal which carries the article),” ○○ publishing company, No. , pp57 – 62, 2020
- 2) Jiro Kojimachi, Taro Gakushin ‘(Title),’ “(Name of Journal which carries the article),” ○○ publishing company, No., pp33 – 39, 2019
- 3) Hanako Hanzomon, Jiro Kojimachi, Taro Gakushin (the sixth), ○○○○, ○○○○, ○○○○, ○○○○, Saburo Chiyoda (○omitted), ‘(Title),’ “(Name of Journal which carries the article),” ○○ publishing company, No., pp10 – 25, 2018

(2) Commentary and review article in academic journals or commercial magazines

- 1) Taro Gakushin ‘(Title),’ “Name of Journal which carries the article,” ○○ publishing company, No. , pp57 – 62, 2020

(3) Presentation at an international conference

- ① ○Gakushin T, Hanzomon H, ... ‘(Title),’ “(Name of meeting),” BB-11, Los Angeles, USA, (June 2019)

(4) Presentation at a domestic meeting/symposium

- Taro Gakushin, Hanako Hanzo... ‘(Title),’ “(Name of meeting),” No.200, Sendai, September 2019

(5) Patents

- 1) (Patent Number), ‘(Title),’ Jiro Kojimachi, Taro Gakushin, April 2019

(6) Others (Awards received etc.)

- ① Taro Gakushin ... ‘(Name of award),’ April 2019

[Other achievements, career events, experiences, etc. (Continued)]

(Researcher Form 3)

Declination by the Excellent Young Researcher Candidate

Date (MM/DD/YYYY):

Attn: Director-General, Science and Technology Policy Bureau, Ministry of Education, Culture,
Sports, Science and Technology

Current (government) post:

Name in *hiragana*:

Name:

I had applied for the FY2023 Leading Initiative for Excellent Young Researchers and was selected as an Excellent Young Researcher candidate. However, I have decided to decline the offer and hereby notify the decision.

**The name column should have the “name” or “signature.”*

**A foreign national, etc. should write his or her name in alphabet in the name column and leave the name in hiragana column blank.*

**If this form is submitted, you will no longer be able to apply for the continuation of your candidate eligibility from the following fiscal year onward.*