FY2021

Leading Initiative for Excellent Young Researchers

Application Guidelines etc.

Science and Technology Policy Bureau, MEXT April 2021

<Main changes in application for FY2021 from the previous fiscal year>

- (1) Schedule for excellent young researchers (new applicants of FY2021)
 - In the past, screening of application documents was conducted between May and June by the Selection Committee established within the Japan Society for the Promotion of Science, and, based on selection results, the Ministry of Education, Culture, Sports, Science and Technology (MEXT) determined excellent young researcher (EYR) candidates in early July. In this fiscal year, however, those who wish to be EYRs shall first conduct the negotiation among the parties with a relevant university, company, or similar institution, and then, screening of application documents by the Selection Committee will be carried out between September and October with respect to both (i) those whose negotiation among the parties is completed by the last day of August and (ii) those whose negotiation among the parties is not completed by the last day of August.
 - EYRs are determined by MEXT in October among new applicants, those who continue their candidate eligibility, and those considered to have the research ability equivalent to that of those who continue their candidate eligibility (to be discussed later) (i) whose negotiation among the parties is completed by the last day of August. They are determined in the order of completion of the negotiation among the parties as a general rule. (Please note that new applicants may not be selected as EYRs in view of selection results.)
 - If the number of EYRs determined in October is less than the scheduled number of EYRs to be decided for FY2021 (20 people), EYRs will be determined as needed based on selection results from among those whose negotiation among the parties is completed in September or later.
- (2) Negotiation among the parties by utilizing the JREC-IN Portal
 - In cases where a company offering a post on JREC-IN Portal (although not offering a post in the Leading Initiative for Excellent Young Researchers (LEADER)) hires a new applicant or a person who continues his/her candidate eligibility, the subject post will be treated as being equivalent to the post offered under the LEADER only if the subject post is determined by MEXT that it satisfies the requirements for posts in 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. In addition, if the hiring company wishes funding support, an application for the support needs to be submitted separately.
- (3) Those considered to have the research ability equivalent to that of those who continue their candidate eligibility

- Among those who satisfy the age requirement of the LEADER and wish to have a stable and independent research environment in a company, those who are recognized by MEXT to have acquired transferable skills, etc. (i.e., those who completed the Strategic Professional Development Program for Young Researchers, those experienced with Research Fellowship for Young Scientists PD and/or DC, and those who completed the WISE Program [Doctoral Program for World-leading Innovative & Smart Education]) shall be treated as those considered to have the research ability equivalent to that of those who continue their candidate eligibility. If such persons have participated in an internship in the post offered by a company for the LEADER and completed the negotiation among the parties, they shall be treated as being eligible in the same manner as those who continue their EYR candidate eligibility.
- Note that, in this case only, it is an essential requirement to participate in an internship program at the company before carrying out negotiation among the parties (in cases other than this, participating in an internship program is not required for starting negotiation among the parties and the negotiation among the parties can be carried out without participating in an internship program).

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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.

[Advance notice]

To proceed negotiation among the parties by mutual communications between a research institution and applicants or those who continue their candidate eligibility after publication of a post and before determination of excellent young researcher candidates. In this case, the research institution offering a post shall indicate the necessity of advance notice in the post information it publishes and clearly state the method of contact.

[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.

FY2021

Leading Initiative for Excellent Young Researchers

Application Guidelines

Science and Technology Policy Bureau, MEXT April 2021

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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-academiagovernment 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.

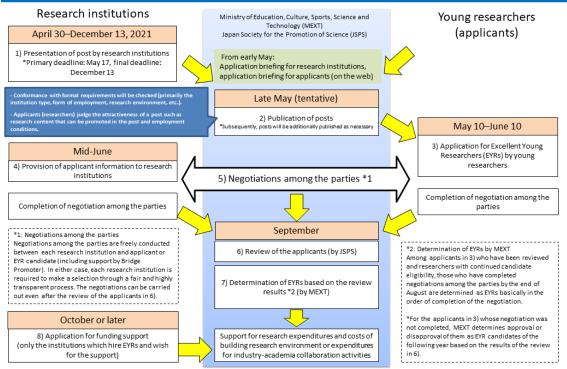
First, the Ministry of Education, Culture, Sports, Science and Technology (MEXT) invites posts from the research institutions that wish to participate in this project, and then publicizes those posts after satisfying the requirements through the website of MEXT or a neutral public institution. In parallel 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 FY2021 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 FY2021

Process of FY2021 Leading Initiative for Excellent Young Researchers (LEADER)



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).)

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: <u>https://www.meti.go.jp/policy/innovation_corp/cross_appointment.html</u>)

- Guideline to strengthen joint research through industrial-academic-government cooperation (November 30, 2016, Secretariat of the Council for industry-academiagovernment cooperation to promote innovation) (specifically, "2. (4) (4-1) Promotion of the cross appointment system")

(URL: https://www.mext.go.jp/a_menu/kagaku/taiwa/1380912.htm)

d. Start time of research

In principle, the start time of research in research institutions for EYR is in 2021. However, those who can receive the support of Funds for the Development of Human Resources in Science and Technology (hereinafter, the "Funds") in FY2021 have to complete the negotiation among the parties, in principle, by the end of August 2021.

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 10, 2021) for applicants (young researchers).

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

Applicants (young researchers; hereinafter referred to as the "applicants"), <u>who are going</u> to be active in various research institutions of industry-academia-government, shall satisfy the following requirements. They must meet all these requirements at the time of application.

a. Attained academic degree, etc.

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

- 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")
- As of April 1, 2022, 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 2016).
- 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.

- Among those who were selected as EYR candidates in the FY2019 applications and applied for the continuation of their candidate eligibility in FY2020, those whose negotiation among the parties with the research institution offering a post was not completed in FY2020 can continue their candidate eligibility through FY2021. 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 FY2021, they can participate in the negotiation among the parties in FY2021 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 10, 2021).
- Those who were selected as EYR candidates in the FY2020 applications and whose negotiation among the parties with the research institution offering a post was not completed in that fiscal year can continue their candidate eligibility through FY2022 at the longest. 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 FY2021, they can participate in the negotiation among the parties in FY2021 by applying for the continuation of their candidate eligibility. The said persons <u>shall apply</u>

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 10, 2021).

Note that <u>if application for the continuation is not submitted</u>, it is not possible to <u>participate in the negotiation among the parties in FY2022</u>. Please apply by the application deadline if you wish to continue your candidate eligibility through FY2022. (Application for the continuation needs to be submitted each fiscal year. Please submit an application for the continuation through 2022 based on the Application Guidelines for FY2022.)

- Among those who satisfy the age requirement of the LEADER and wish to have a stable and independent research environment in a company, those who are recognized by MEXT to have acquired transferable skills, etc. (i.e., those who completed the Strategic Professional Development Program for Young Researchers, those experienced with Research Fellowship for Young Scientists PD and/or DC, and those who completed the WISE Program [Doctoral Program for World-leading Innovative & Smart Education]) shall be treated as those considered to have the research ability equivalent to that of those who continue their candidate eligibility. If such persons have participated in an internship in the post offered by a company for the LEADER and completed the negotiation among the parties, they shall be treated as being eligible in the same manner as those who continue their EYR candidate eligibility.

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 MEXT's website or JSPS's website.

Further detailed information regarding the post(s) in both Japanese and English in principle shall be registered on JREC-IN Portal (<u>https://jrecin.jst.go.jp/seek/SeekTop</u>) 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 Monday, May 17, 2021. MEXT will confirm the requirements of the offered posts, which will then be published in late May. Subsequently, posts will be additionally published as necessary. The period for offering posts shall be up to <u>Monday, December 13, 2021</u>. Post offer is accepted on an as-necessary basis. Furthermore, as described also in 5. below, <u>take care to</u> <u>ensure a fair and highly transparent selection process</u>.

- Date of post publication: late May 2021 (posts to be offered as required)
- Primary deadline of post offer: 17:00, Monday, May 17, 2021

Last deadline: 17:00, Monday, December 13, 2021 (The research institution offering a post may amend post information up to the end of December 2021.)

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 "2021 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 negotiate on employment individually with the EYR candidates or applicants. In the negotiation among the parties, the EYR candidate or applicant may contact and visit the research institution, or the institution may check the application information and contact the EYR candidate or applicant.

For smooth negotiation among the parties, each research institution registers information such as the necessity of advance notice 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 closing contact from candidates and applicants and denying the requests of candidates and applicants. 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.

Regardless of the timing of negotiation among the parties and the time when each research institution can start advance notice, the funds delivery destination will be decided after the decision of EYR.

(2) Agencies supporting negotiation among the parties

In FY2021, 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 at a later date.

(3) Advance notice in negotiation among the parties

It is possible to start negotiation among the parties before the EYR candidates are decided for posts indicating the necessity of advance notice, as far as it is after the publication of the post offers. In this case, researchers need to contact the relevant research institution by the deadline set for each post.

(Points to note in advance notice)

- If a research institution contacts researchers and carries out screening before the determination of EYR candidates, the research institution is required to indicate the necessity of advance contact in the post information it publishes and clearly state the method of contact.
- Each research institution <u>should be careful not to decide employment informally before</u> <u>the end of the application deadline (Thursday, June 10, 2021)</u>.
- It is possible to change from a post requiring advance notice to a post not requiring advance notice. (However, it is not possible to change a post from that of optional to a post requiring advance notice, because it might be disadvantageous to the applicant.)

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

For smooth negotiation among the parties, after the candidates are determined, the list of EYR candidates as well as application information "Researcher Form 1" and "Form 1 Attachment" will be sent to all research institutions which offered posts. Further, once application is made, application information of those who have agreed to provide such information to institutions that offered 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.

(5) Provision of EYR candidate list and application information to agencies supporting negotiation among the parties

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.

6. Determination of EYR and scheduled number of EYRs

(1) Determination of EYR

If the negotiation among the parties is completed by the end of August 2021 between the research institution offering a post and an EYR candidate or applicant and the employment starts in FY2021, MEXT will determine the candidate as an EYR for FY2021.

In addition, as for the posts publicized in FY2021, candidates whose negotiation completed from September 2021 through the end of March 2022 and candidates whose hiring starts in FY2022 as a result of the negotiation are to be determined as EYRs and they may be eligible for funding support.

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.

In cases where a company offering a post on JREC-IN Portal from FY2021 (although

not offering a post in the LEADER) hires a new applicant or a person who continues his/her candidate eligibility, the post shall be treated as being equivalent to the post offered by the LEADER only if MEXT judges that the post satisfies the post requirement for 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. In addition, if the hiring company wishes funding support, an application for the support needs to be submitted separately.

(2) Continuation of eligibility for excellent young researcher candidate

The candidates newly selected in FY2021, whose negotiation among the parties did not complete within the fiscal year, may continue their candidate eligibility through FY2023 by applying for the continuation in the next fiscal year onwards. They may conduct the negotiation among the parties with research institutions that offer posts newly published in FY2022 and 2023 without going through the review.

If the negotiation among the parties is completed within FY2022 and the candidate is determined as EYR, the person cannot apply for the continuation of the candidate eligibility for the following fiscal year. In addition, it should be noted that in order to apply for the continuation of the candidate eligibility through FY2023, the candidate is required to apply for the continuation in FY2022.

*Among those who were selected as EYR candidates in FY2020 and whose negotiation among the parties was not completed during the fiscal year, those who applied for the continuation of their candidate eligibility in FY2021 but whose negotiation among the parties is also not completed in FY2021 may continue their candidate eligibility through FY2022 by applying for the continuation again.

(3) The scheduled number of excellent young researchers (EYRs)

In FY2021, approximately 20 persons are planned to be newly selected as EYRs.

Note that the scheduled number of EYRs is the number of persons to be supported by the Funds and includes those who continue their candidate eligibility as in 2. c. 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.

*The term "have completed the negotiation among the parties" refers to <u>the time of</u> receipt of a negotiation completion report by MEXT.

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. (3) above, we may not be able to pay the amount of the Funds each research institutions has applied for (including the amount after FY2022).

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

To eliminate the excessive concentration of support in any particular research institution, the upper limit of the total Funds concerning EYR, which starts the support in FY2021, is set at 100 million yen per research institution.

[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

<u>For the first 1–2 fiscal years after determination of EYRs (or 2–3 fiscal years if hiring</u> starts in the following fiscal year and EYRs become eligible for support by Funds), up to <u>12 million yen per EYR is provided during the two years</u> 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 10, 2021. 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 decide to hire an EYR in FY2021 hires a young researcher (including those other than applicants) for the post published in FY2021 who is not a candidate and satisfies the requirements of 2. a. and b. above, and if the research institution is not the institution to which the researcher belonged to 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 hired in FY2021 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 depending on the budget implementation at that time.

		First and second	Third to Fifth
		fiscal year	fiscal year
E	YR (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	-

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

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. However, when an EYR transfers to a newly published post in and after FY2022, the above-mentioned support may be continued for the transfer destination research institute from the following fiscal year.

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. However, when an EYR transfers to a newly published post in and after FY2022, the above-mentioned support may be continued for the transfer destination research institute 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 17, 2021: 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 provide an advance notice and conduct negotiation among the parties before EYR candidates are decided.

Mid-June: Delivery of application information and information on those who continue the candidate eligibility [see II.5.(4).]

*Mid-October: Delivery of an EYR candidate list [see II.5.(4).]

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

*If the number of those who have completed negotiation among the parties exceeds the scheduled number of EYRs for FY2021, namely 20 persons, EYRs will be determined in the order of completion of negotiation among the parties (i.e., the order of receipt of a negotiation completion report by MEXT).

August 31: Submission deadline for a negotiation completion report [see III.2] October: Start of research activities as an EYR

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

(2) Applicants (Young researchers)

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

May 10: Start of application [see IV.1.]

June 10: Application deadline [see IV.1.]

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 provide an advance notice and conduct negotiation among the parties before EYR candidates are decided. Researchers need to contact the relevant research institution by the application deadline set for each post.

September: Review for EYR candidate selection [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: Start of research activities as an EYR

III. Procedure, etc. for Research Institutions

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

Follow the electronic application method 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 electronic application method 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 "Taisei Seibi nado Jiko Hyoka Checklist (Self-Evaluation Checklist on System Development, etc.)" based on "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 application: from Friday, April 30, 2021

Primary deadline of post offer: 17:00, Monday, May 17, 2021

Last deadline: 17:00, Monday, December 13, 2021

(The posts offered by Monday, May 17, 2021 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 electronic application method, first go through the "ID and password issuance application" process from the JSPS website, then log in to the electronic 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 MEXT or JSPS.
- Items described in the "Research Institution Form 2" shall be publicized on the JST's JREC-IN Portal (<u>https://jrecin.jst.go.jp/seek/SeekTop</u>) 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 institutions that offered posts when applying 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. Submission is possible even before the EYR review of the applicant. Once the negotiation is completed, please submit the documents as necessary.

(i) Documents to be submitted

Please fill in the necessary information in the negotiation completion report (Research Institution Form 3) and submit it. 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).

Also, if the case falls under the following, submit a relevant confirmation document together with the negotiation completion report.

	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 FY2021	Research Institution Form 7

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

If the person whom the research institution was going to hire declined the appointment after the institution submitted the negotiation completion report, 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 person who voluntarily declined the hiring to the concerned post is also considered to have declined from being an EYR and thereafter cannot become an EYR even if the person completes the negotiation among the parties for another publicized post in this project.

(ii) Submission period

Until 17:00, Tuesday, August 31, 2021 (*strict observance of the deadline)

- * In the event of an excess in the scheduled number of EYRs for FY2021 (around 20 persons), EYRs are decided in the order of receipt of a negotiation completion report by MEXT. Therefore, it is recommended to submit a report promptly after the end of the negotiation among the parties, without waiting for the submission deadline and the completion of negotiations among the parties for another post if multiple posts are offered.
- * Each time when the negotiation is completed between the research institution and an EYR candidate in the period from September 2021 through the end of March 2022, please fill out the necessary information in the document (Research Institution Form 3) and submit it. In this case, fund assistance may be implemented from FY2021 or the second fiscal year from FY2022 depending on budget adjustments.
- (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.

*Regarding those who were determined to be EYR candidates for FY2019 and continued their candidate eligibility through FY2020, and those who were determined to be EYR candidates for FY2020 and are applying for the continuation of the candidate eligibility through FY2021

In applying for the continuation of the candidate eligibility, the contents of "Researcher Form 1" and "Researcher Form 1 Attachment" that were already registered in the previous year need to be checked and updated 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

From 10:00 a.m., Monday, May 10, 2021 to 5:00 p.m., Thursday, June 10, 2021 (strict observance of time limits)

Note that start date of application may be changed.

(iii) Submission method/submit to

To use the electronic application system, log in to the system installed and managed by JSPS using the acquired ID / password after applying "ID / password issuance application," and prepare application forms and submit them. Details on obtaining ID / password and preparing an application form will be posted on the JSPS website, so please refer to it.

When applying for continuation of the candidate eligibility, please do not obtain a new ID to use the system; log in with the ID given at the time of determination as an EYR candidate. If applied with a newly-obtained ID, the application will be considered as a new application for FY2021 and the candidate eligibility cannot be continued. See the JSPS website for details.

(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.

(v) Others

- The load on the application system is large just before the 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.
- 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 may 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 at a later date.
- 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 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

determination as an EYR candidate, the application documents can't be replaced.

(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, 2022, 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, Research Fellowship 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, Thursday, June 17, 2021 (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 "2021 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 (17). In addition, the other research institutions and other applicants should pay attention to the following matters (15) through (17).

(1) Execution and management of the 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 of the Act on Regulation of Execution of Budget Pertaining to Subsidies, etc.," and "Guidelines on Funds for the Development of Human Resources in Science and Technology (Leading Initiative for Excellent Young Researchers)" stipulated by JSPS, etc.

Clearly separate the accountings of the Funds 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 entire concerned project is completed.

Furthermore, any purchase of equipment and fixtures, etc., shall be managed under due care of a prudent manager within the support period and subsequently. Funds shall be managed efficiently according to the purpose of Funds.

(2) Improvement of the system according to "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 "Guidelines for the Management and Audit of Public Research Funds In Research Institutions (practice standards)" (revised in Feb. 18, 2014)*.

Research institutions shall strive to develop a management/auditing system for research expenditures under their responsibilities and execute proper research expenditures in accordance with the marking guideline.

If results of investigation into the system development status based on the marking guideline 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 funds allotted by MEXT and independent administrative corporations under the jurisdiction of MEXT.

 * Please refer to the following website for "Guidelines for the Management and Audit of Public Research Funds In Research Institutions (practice standards),"
 [URL] <u>https://www.mext.go.jp/a_menu/kansa/houkoku/1343904.htm</u>

(3) Submission of a "Taisei Seibi nado Jiko Hyoka Checklist (Self-Evaluation Checklist on System Development, etc.)" based on "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 "Taisei Seibi nado Jiko Hyoka Checklist (Self-Evaluation Checklist on System Development, etc.)" (hereinafter, the "Checklist"), which is a report stating developments of management/audit of research funds and the corresponding status based on the guideline. (An application without submitting the checklist is not accepted.)

Therefore, research institutions need to submit the Checklist to Office of Research Funding Administration, Promotion Policy Division, Research Promotion Bureau, MEXT by the time they offer the posts, based on the form in the following website by using the Cross-ministerial Research and Development Management System (e-Rad). However, if it has already submitted the checklist on a separate occasion since April 2020, the institution does not have to submit a new one this time. Also, institutions that do not receive Funds from JSPS do not need to submit it. Please check the following MEXT website for details of the submission method for the Checklist.

Research institutions are asked to pay due attention as even if a research institute has

publicized its posts, the published posts may be taken down and the institution may not be allowed to participate in the initiative if submission of the Checklist cannot be confirmed.

Furthermore, as the marking guideline includes the viewpoints of the "promotion of information transmission/sharing," please show this checklist on the research institution's website, etc., and actively transmit information.

[URL] https://www.mext.go.jp/a menu/kansa/houkoku/1301688.htm

*Note: Please note that the checklist can only be submitted via e-Rad. Please exercise great caution because it usually takes about two weeks for registration. As for the detailed procedures concerning e-Rad use, check the following website.

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

(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 to cancel agreements, etc.

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. In addition, the grant of Funds in and after the next year may not be determined.

(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 as well as projects of all competitive funds, bounties, and commissions, etc. granted by JSPS, according to the extent of misconduct, if a researcher has improperly used the research expenditures of this project (including researchers involved in the conspiracy; [hereinafter, the "Researcher who Has Made the Improper Use, etc."]) or if the researcher who was not found to be involved in the improper use failed to fulfil his/her duty of care^{*2}.

In addition, the outline of the Illegal Use, etc. of a staff responsible for other competitive funds including other ministers and incorporated administrative agencies of other ministers (a name of a researcher who made the Illegal Use, etc., project name, institution that he/she belongs to, research tasks, budget, research year, details of illegal action, etc., and details of implemented measures) may be provided.

- *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, etc. is not recognized but who failed his/her duty to be a good administrator.

Those subject to measures	Extent of illegal use		Period of grant suspension
I. 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
II. Researchers who have made the Illegal Use, etc.,	2. Other than 1.	 It is judged that the influence on the society is large and that the maliciousness of conduct is high. 	5 years
and those who have		2) Other than 1) and 3)	2-4 years
conspired the Illegal Use, etc.;		3) It is judged that the influence on the society is small and that the maliciousness of conduct is low.	1 year
III. A researcher who received research grants through deception or other improper means, and a conspiratorial researcher	_		5 years
IV. 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

A serious warning will be issued to those who are deemed as falling under the following cases.

(1) Among the cases falling under II above, ones that are judged to have minor impact on the society, the maliciousness of conduct is low, and the illegally used amount is small.

(2) Among the cases falling under IV above, ones that are judged to have minor impact on the society and the maliciousness of conduct is low.

(Source: Japan Society for the Promotion of Science Regulations No. 19 Regulations on Responding to Misconduct in Research and Misuse of Research Funds Attached Table 2 [Article 16 1-4 Misuse relations])

(iii) Release of false cases

As a rule, MEXT and JSPS publicizes illegal cases (project name, overview of the illegal case (project name, institution that a researcher belongs to, research year, details of illegal actions, and details of implemented measures) of researchers whose application and participation are restricted due to the Illegal Use, etc. and who failed their duty to be a good administrator.

Furthermore, in "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 fund system and other support projects for the Development of Human Resources in Science and Technology, etc.

Suppose due to irregular use of research funds, researchers are restricted in competitive fund systems* or other support projects for the Development of Human Resources in Science and Technology provided by the government or incorporated agencies or projects for which JSPS grants research funds. Their applications and participation are also restricted in this project during the period when their applicant eligibility in such system and projects is restricted.

The competitive fund system and other support projects for the Development of Human Resources in Science and Technology include the system which starts new public offering in and after 2021. Furthermore, systems completed in or before 2020 are also included.

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

[URL] https://www8.cao.go.jp/cstp/compefund/(competitive fund system)

The suggestion solicitation type research fund system is to be publicized soon.

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

Research institutions are required to comply with the "Guidelines for Responding to

Misconduct in Research" (Adapted on August 26, 2014 by the Minister of MEXT; hereinafter, the "Guideline")* in applying for this project and implementing research activities.

If MEXT finds deficiencies such as underdevelopment of the system and regulations, and non-execution of research ethics education in the guided investigation of the system development status, MEXT may take measures against the relevant institutions to reduce indirect expenses of all competitive funds allotted by MEXT and independent administrative corporations under the jurisdiction of MEXT.

* Please refer to the following MEXT website for "Guidelines for Responding to Misconduct in Research."

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

(7) Submission of checklist regarding initiatives based on "Guidelines for Responding to Misconduct in Research"

To apply for this project, each research institution is required to submit a checklist about efforts based on "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.)

Therefore, research institutions need to submit the checklist of misconduct in research activities to the Office of Research Fairness Promotion, Human Resources Policy Division, Science and Technology Policy Bureau, MEXT by the time they offer the posts, based on the form in the following website by using the Cross-ministerial Research and Development Management System (e-Rad). However, if an institution has already submitted the checklist of misconduct in research activities on a separate occasion since April 2020, it does not have to submit a new one this time. Also, institutions that do not receive Funds from JSPS do not need to submit it.

Research institutions are asked to pay due attention as even if a research institute has publicized its posts, the published posts may be taken down and the institution may not be allowed to participate in the initiative if submission of the checklist of misconduct in research activities cannot be confirmed.

Please check the following MEXT website for details of the submission method for the Checklist of misconduct in research activities.

[URL] https://www.mext.go.jp/a_menu/jinzai/fusei/1374697.htm

*Note: Please note that the checklist can only be submitted via e-Rad. (Please be aware that registration 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 misconducts in research activities

If specified misconducts in research activities are found in this project, they will be

handled strictly as described below based on the guideline:

- Measures against misconducts found in research activities

(i) Measures to cancel agreements, etc.

If any misconduct (forgery, interpolation, and theft) is found in activities related to 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. In addition, some agreements may not be concluded in and after the next year.

(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 as well as all competitive funds, fellowships and commission, etc. projects granted by JSPS against a researcher who committed in a specified misconduct in research papers and reports, etc. and a researcher whose involvement in specified misconducts is not recognized but who fails to fulfill his/her duty as a good researcher responsible for the theses and report, etc. and fails to take full responsibility according to maliciousness of illegal actions and the extent of responsibilities.

In addition, when such restriction measures are taken, the information on misconducts may be provided to persons in charge of the competitive fund systems implemented by MEXT or the incorporated administrative agencies of MEXT (hereinafter "MEXTrelated Competitive Fund System, etc.") and those in charge of the competitive fund system implemented by other Ministers and their incorporated administrative agencies (hereinafter, "Other Ministry-related Competitive Fund System, etc."). Then, applications and participation in "MEXT-related Competitive Fund System, etc." and "Other Ministry-related Competitive Fund System, etc." may also be restricted.

Those subject to measures		Extent of specified misconducts	Period of grant suspension	
There	1. Especially malevolent person, who intends to commit specified misconduct from the very beginning of a research			10 years
Those involved in specified misconducts	2. An author of thesis, etc., related to a research	g of a research An author who is responsible for the thesis, etc., (supervisor, representative	It is judged that the influence on the research progress in the field and the society is large and that the maliciousness of	5-7 years
	where	author, or a	conduct is high	

	specified misconduct is found	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 small and that the maliciousness of conduct is low	3-5 years
		Authors other than the above		2-3 years
		ved in specified excluding 1. and 2.		2-3 years
misconducts extent for the	but is responsible content of a thes		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
(supervisor, r certified as th	eglected duty of epresentative aut e one who bear these persons)	thor, or a person	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

(Source: Japan Society for the Promotion of Science Regulations No. 19 Regulations on Responding to Misconduct in Research and Misuse of Research Funds Attached Table 1 [Article 16 1-4 Specified Misconduct Relations])

(iii) Measures against researchers whose application and participation are restricted in the other competitive fund systems and basic expenses

Researchers whose application and participation are restricted due to misconducts in research activities utilizing MEXT-related competitive fund systems other than this project, operational grants for the national university corporation, Inter-University Research Institute Corporations, and incorporated administrative agencies within the jurisdiction of MEXT, basic expenses including funds to private schools, and competitive fund system related to other Ministries are restricted from applying to and participating in this project during the time.

(iv) Release of false cases

If any misconduct in research activities are found in this project, as a rule, MEXT and JSPS shall publicize details of the case (false case name, types of misconducts, types of

research field of false case, a name of expenses where any misconduct is made, overview of the false case, measures taken by research institution and by a distributing agency).

In addition, the guidelines 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 misconducts 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 being selected as an EYR, a person responsible for its implementation* need to submit a document having confirmed 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: XXXX

XX XX, President of XX 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 misconducts 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

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

If a researcher violates related laws and regulations/guidelines, etc., and implement his/her research activities, Funds may not be granted or canceled.

(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, upon carrying out various research activities, 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* 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, distribution of research grants or decision of grant distribution may be cancelled in addition to legal disposition and penal provisions.

*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 technology to a non-resident 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. 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 <u>https://www.meti.go.jp/policy/anpo/</u>
- 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)
 <u>https://www.meti.go.jp/policy/anpo/law_document/tutatu/t07sonota/t07sonota_jishukanri</u> 03.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, university and a National Research and Development Agency, etc. are required to operate "Research Facility/Equipment Sharing System in the Research Organization Unit" (hereinafter, "Equipment Sharing System") in "Introduction of New Research Facility/Equipment Sharing Integrated with Research System Management" (November 2015 by Sub-committee, Council for Science and Technology of Advanced Research Infrastructure).

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 his/her belonging institution or organization to the extent that does not interfere with the promotion of the research task for this project, utilizing those purchased by other research expenditures as well as purchasing/sharing those using with several research expenditures.

In addition, it is also desirable to promote the sharing of research facility/equipment beyond frameworks of a research organization/institution by actively striving to collaborate with established sharing systems such as "University Collaboration Network for Efficient Utilization of Research Equipment" implemented by the Inter-University Research Institute Corporation National Institutes of Natural Sciences (NINS) with the aim of interoperation with equipment all over Japan and "Equipment Support Center Development Project" provided by national universities.

- "Introduction of New Research Facility/Equipment Sharing Integrated with Research System Management"

(November 25, 2015 by Sub-committee, Council for Science and Technology of Advanced Research Infrastructure)

https://www.mext.go.jp/component/b_menu/shingi/toushin/__icsFiles/afieldfile/2016/01/ 21/1366216_01_1.pdf

- "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

 Unification of the use rule, etc. in the competitive fund (The agreement at the liaison meeting of relevant Ministries on the competitive fund revised on April 20, 2017) <u>https://www8.cao.go.jp/cstp/compefund/shishin3_siyouruuru.pdf</u>

- "University Collaboration Network for Efficient Utilization of Research Equipment" https://chem-eqnet.ims.ac.jp/

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

In the "Science, Technology and Innovation Basic Plan" (March 26, 2021 by Cabinet decision), 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 as 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 postdoctoral 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 make efforts to 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.

(14) Support for various career paths for young postdoctoral researcher

In "Basic Policy on Support for Diverse Career Paths for Young Postdoctoral Fellows to Be Employed through the MEXT Public Research Funds" (December 20, 2011 by MEXT's Science and Technology Academic Council's Personnel Committee) (https://www.mext.go.jp/b_menu/shingi/gijyutu/gijyutu10/toushin/1317945.htm), it requires "public research institutes and representative researchers that hire young postdoctoral researchers by public research funds to actively work on supporting them to ensure various career paths in and out of Japan." Based on the policy, when your research is adopted by this project and you hire the young postdoctoral researchers using the Funds, please make proactive efforts to support the establishment of various career paths for such researchers.

(15) Registration of researcher information on researchmap

researchmap (<u>https://researchmap.jp/</u>) is a researcher information database which is one of the largest in Japan as a comprehensive list of researchers in Japan. The registered information on achievements can be publicized on internet. In addition, researchmap is linked to e-Rad and teaching staff databases of numerous universities. The registered information can be used in another system, so researchers don't have to register the same information multiple times in various application forms and databases.

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.

(16) 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," the "Act on the Protection of Personal Information Held by Incorporated Administrative Agencies, etc.," 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/access_contact/info.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

(17) 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> Research Fellowship 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		Expenses to pay compensation for the labor to a person
personal		concluding an employment agreement etc. and engaged
expenditures		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	Expenses for	Expenses to purchase products that do not fall under
implementation	consumable	facility and equipment expenses.
expenses	goods	*The purchase process/definition of consumable goods is
		based on regulations, etc. of the institution.
	Domestic travel	Expenses related to domestic business travels. The
	expenses	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
	0 1	calculate travel expenses.
	Overseas travel	Expenses related to overseas business travels (including domestic travels).
	expenses	*Use the travel expense regulations of the institution to
		calculate travel expenses.
	Travel expenses	Expenses related to invite researchers, etc. from foreign
	for foreign	countries.
	invitees	*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
	Maating	rewards.
	Meeting	The minimum food expenses related to meetings including outsiders.
	expenses	*In providing food expenses, etc., the minimum is
		provided according to regulations of institutions.
		However, Funds cannot be expended for alcohol.
	Communication/	Expenses related to transportation of articles and data
	Transportation	communication.
	expenses	
	Printing and	Expenses related to printing and binding of documents,

binding expenses	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)

1	Δ1	l h	Costs	of	huilding	research	environment
	11	0.	COSIS	01	ounding	rescaren	chrynonnent

Expense items	Category	Remarks
<u>^</u>	Category	
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		Expenses to pay compensation for the labor to a person
personal expenditures		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	Expenses for	Expenses to purchase products that do not fall under
implementation expenses	consumable goods	facility and equipment expenses. *The purchase process/definition of consumable goods is based on regulations, etc. of the institution.
	Domestic travel	Expenses related to domestic business travels. The
	expenses	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 related to overseas business travels (including
	expenses	domestic travels). *Use the travel expense regulations of the institution to
		calculate travel expenses.
	Travel expenses for foreign	Expenses related to invite researchers, etc. from foreign countries.
	invitees	*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

					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)		Res	search content (Medium-sized Section/Basic Section)
Research heid	11 田相 士	あむ トパスの間海公区	11	Dhileson	hu ant and valated fields
	忠忠、云	術およびその関連分野	11	Philosop	bhy, 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
		美術史関連		01060	History of arts-related
	01000	芸術実践論関連		01000	Theory of art practice-related
	01070	女性天成調用)建 利益社会尚れたび利益社術市明演		01070	
		科学社会学および科学技術史関連	_		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	Literatu	re, linguistics, and related fields
			_	00010	
		日本文学関連	_	02010	Japanese literature-related
		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-relate
	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
		言語学関連		02060	Linguistics-related
「文学	02070	日本語学関連		02070	Japanese linguistics-related
	02080	英語学関連		02080	English linguistics-related
lumanities	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 💥
	10 展由尚	考古学、博物館学およびその関連分野	10	Listan	archaeology, museology, and related fields
			13		
	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
		文化財科学関連		03060	Cultural assets study-related
		博物館学関連		03070	Museology-related
			14		
		文化人類学、民俗学およびその関連分野	14		hy, cultural anthropology, folklore, and related fields
		地理学関連		04010	Geography-related
	04020	人文地理学関連		04020	Human geography-related
		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	l related fields
	05010	基礎法学関連		05010	Legal theory and history-related
		公法学関連		05020	Public law-related
	05030	国際法学関連		05030	International law-related
		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
		新領域法学関連		05070	New fields of law-related
			-	03070	Inew helds of law-related
	22 政治学お	3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
社会科学		経営学およびその関連分野	23	Econom	ics, business administration, and related fields
Social	07010	理論経済学関連	-	07010	Economic theory-related
ciences	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 経済史関連	_	07060	Money and finance-related
	07070	<u>経済史関連</u>	_	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
		観光学関連 ※1]	80020	Tourism studies-related ※1
		- Sよびその関連分野	24	Sociolog	zy and related fields
		社会学関連	_	08010	Sociology-related
	08020	社会福祉学関連	-	08010	Social welfare-related
	08020	社云価祉子関連 家政学および生活科学関連	-	08020	Family and consumer sciences, and culture and living-related
			-	-	
	80020 80030	観光学関連 ※1	-	80020	Tourism studies-related ※1
	1 180030	ジェンダー関連 ※1	1	80030	Gender studies-related 💥 1
	00030				

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

			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)			
	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 Education on school subjects and primary/secondary education-related		
社会科学 (続き)	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		
0	09070 教育工学関連		09070 Educational technology-related		
Social	09080 科学教育関連		09080 Science education-related		
sciences	02090 日本語教育関連 ※1		02090 Japanese language education-related ×1		
(continued)	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		
	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		
数物系科学	34 プラズマ学およびその関連分野	34	Plasma science and related fields		
Mathematical	14010 プラズマ科学関連		14010 Fundamental plasma-related		
and physical	14020 核融合学関連		14020 Nuclear fusion-related		
sciences	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		
	17030 地球人間圏科字関連 17040 固体地球科学関連 17050 地球生命科学関連		17030 Human geosciences-related 17040 Solid earth sciences-related		

(注)	×1	中区分の選択の必要がある小区分

- ※1 Pasic 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

ㅠㅠ八冊				※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)
	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	41	Physical chemistry, functional solid state chemistry, inorganic/coordination chemistry, analytical chemistry, inorganic materials chemistry, energy-related chemistry, and related fields
		物理化学、機能物性化学およびその関連分野		Physical chemistry, functional solid state chemistry, and related fields
		32010 基礎物理化学関連		32010 Fundamental physical chemistry-related
		32020 機能物性化学関連		32020 Functional solid state chemistry-related
		 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 		Inorganic/coordination chemistry, analytical chemistry, and related fields 34010 Inorganic/coordination chemistry-related
		34010 黑磯·頭体化子宮連 34020 分析化学関連		34010 Inorganic/coordination chemistry-related 34020 Analytical chemistry-related
		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		34030 Green sustainable chemistry and environmental chemistry-related
		無機材料化学、エネルギー関連化学およびその関連分野		Inorganic materials chemistry, energy-related chemistry, and related fields
化学		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		36010 Inorganic compounds and inorganic materials chemistry-related
Chemistry	42	130020 14パルイー国連に子 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	42	Organic chemistry, polymers, organic materials, biomolecular
,	72		76	chemistry, and related fields
		有機化学およびその関連分野		Organic chemistry and related fields
		33010 構造有機化学および物理有機化学関連		33010 Structural organic chemistry and physical organic chemistry-related
		<u>33020 有機合成化学関連</u> 高分子、有機材料およびその関連分野		33020 Synthetic organic chemistry-related
		高分子、有機材料品よびての関連分野 35010 高分子化学関連		Polymers, organic materials, and related fields 35010 Polymer chemistry-related
		35010 高分子忙子周建 35020 高分子材料関連		35020 Polymer materials-related
		35030 有機機能材料関連		35030 Organic functional materials-related
		生体分子化学およびその関連分野		Biomolecular chemistry and related fields
		37010 生体関連化学		37010 Bio-related chemistry
		37020 生物分子化学関連		37020 Chemistry and chemical methodology of biomolecules-related
		37030 ケミカルバイオロジー関連		37030 Chemical biology-related
				Mechanics of materials, production engineering, design engineering,
		材料力学、生産工学、設計工学、原子力工学、地球資源工		nuclear engineering, earth resources engineering, energy
	51		51	engineering, fluid engineering, thermal engineering, mechanical
		ス、航空宇宙工学、船舶海洋工学およびその関連分野		dynamics, robotics, aerospace engineering, marine and maritime
				engineering, and related fields
		材料力学、生産工学、設計工学およびその関連分野		Mechanics of materials, production engineering, design engineering, and related fields
		18010 材料カ学および機械材料関連 18020 加工学および生産工学関連		18010 Mechanics of materials and materials-related 18020 Manufacturing and production engineering-related
		18030 設計工学関連		18020 Manufacturing and production engineering-related 18030 Design engineering-related
		18040 機械要素およびトライボロジー関連		18040 Machine elements and tribology-related
		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		Nuclear engineering, earth resources engineering, energy engineering, and related fields
		31010 原子力工学関連		31010 Nuclear engineering-related
		31020 地球資源工学およびエネルギー学関連		31020 Earth resource engineering, Energy sciences-related
		流体工学、熱工学およびその関連分野		Fluid engineering, thermal engineering, and related fields
		19010 流体工学関連		19010 Fluid engineering-related
		19020 熱工学関連		19020 Thermal engineering-related
		機械力学、ロボティクスおよびその関連分野		Mechanical dynamics, robotics, and related fields
工学系科学		20010 機械力学およびメカトロニクス関連		20010 Mechanics and mechatronics-related
		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		20020 Robotics and intelligent system-related
Engineering		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		Aerospace engineering, marine and maritime engineering, and related fields 24010 Aerospace engineering-related
sciences		24010 <u>航生于留工于</u> 闺建 24020 船舶海洋工学関連		24010 Aerospace engineering related
				Electrical and electronic engineering, applied condensed matter
	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	52	physics, applied physics and engineering, and related fields
		電気電子工学およびその関連分野		Electrical and electronic engineering and related fields
		21010 電力工学関連		21010 Power engineering-related
		21020 通信工学関連		21020 Communication and network engineering-related
		21030 計測工学関連		21030 Measurement engineering-related
		21040 制御およびシステム工学関連		21040 Control and system engineering-related
		21050 電気電子材料工学関連		21050 Electric and electronic materials-related
		21060 電子デバイスおよび電子機器関連		21060 Electron device and electronic equipment-related
		応用物理物性およびその関連分野		Applied condensed matter physics and related fields
		29010 応用物性関連		29010 Applied physical properties-related
		29020 薄膜および表面界面物性関連		29020 Thin film/surface and interfacial physical properties-related
		29030 応用物理一般関連		29030 Applied condensed matter physics-related
		<u>29030 応用物理一般関連</u> 応用物理工学およびその関連分野		Applied physics and engineering and related fields
		29030 応用物理一般関連		

- (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

	-						2 Basic Section that should also select Research field		
研究分野			研究内容(中区分/小区分)			Res	earch content (Medium-sized Section/Basic Section)		
Research field									
l	-。土木工学、社会システム工学、安全工学、防災工学、建築学				ineering, social systems engineering, safety engineering,				
I	53	++763	その関連分野		53	disaster	prevention engineering, architecture, building engineering,		
1						and relation	ted fields		
1		土木工	学およびその関連分野			Civil eng	ineering and related fields		
1		22010	土木材料、施工および建設マネジメント関	谨		22010	Civil engineering material, execution and construction management-related		
1		22020	構造工学および地震工学関連	~		22020	Structure engineering and earthquake engineering-related		
		22030	地盤工学関連			22030	Geotechnical engineering-related		
		22030	水工学関連			22030	Hydroengineering-related		
		22050	土木計画学および交通工学関連			22050	Civil engineering plan and transportation engineering-related		
		22060	土木環境システム関連			22060	Environmental systems for civil engineering-related		
			<u>ステム工学、安全工学、防災工学およびその</u>)関連分野			ms engineering, safety engineering, disaster prevention engineering, and related field		
			社会システム工学関連			25010	Social systems engineering-related		
		25020	安全工学関連			25020	Safety engineering-related		
		25030	防災工学関連			25030	Disaster prevention engineering-related		
		建築学る	およびその関連分野				ture, building engineering, and related fields		
		23010	建築構造および材料関連				Building structures and materials-related		
		23020	建築環境および建築設備関連			23020	Architectural environment and building equipment-related		
		23020	建築計画および都市計画関連			23020	Architectural planning and city planning-related		
		23040	建築史および意匠関連				Architectural history and design-related		
		90010	デザイン学関連 ※1				Design-related X1		
工学系科学	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	54		s engineering, chemical engineering, nano/micro science,		
エ テパイチ (続き)	1.14						ted fields		
	1	材料工学	学およびその関連分野			Materials	s engineering and related fields		
	1	26010	金属材料物性関連			26010	Metallic material properties-related		
Engineering	1	26020	無機材料および物性関連			26020	Inorganic materials and properties-related		
sciences	1	26030	複合材料および界面関連			26030	Composite materials and interfaces-related		
(continued)	1	26040	構造材料および機能材料関連			26030	Structural materials and functional materials-related		
	1	26040	相互材料のよび機能材料関連			26040			
			村村加工のよび祖禰前御労建				Material processing and microstructure control-related		
		26060	金属生産および資源生産関連			26060	Metals production and resources production-related		
		化字工学	学およびその関連分野				l engineering and related fields		
			移動現象および単位操作関連			27010	Transport phenomena and unit operations-related		
		27020	反応工学およびプロセスシステム工学関連	車		27020	Chemical reaction and process system engineering-related		
		27030	触媒プロセスおよび資源化学プロセス関連	ŧ.		27030	Catalyst and resource chemical process-related		
		27040	バイオ機能応用およびバイオプロセス工学	2 関連		27040	Biofunction and bioprocess engineering-related		
			クロ科学およびその関連分野			Nano/mi	cro science and related fields		
		28010	ナノ構造化学関連			28010	Nanometer-scale chemistry-related		
		28020	ナノ構造物理関連			28020	Nanostructural physics-related		
						28020	Nanostructural physics related		
		28030	ナノ材料科学関連						
		28040	ナノバイオサイエンス関連			28040	Nanobioscience-related		
		28050	ナノマイクロシステム関連			28050	Nano/micro-systems-related		
	90	人間医	エ学およびその関連分野		90	Biomedi	cal engineering and related fields		
	00					Diomodi			
		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				Medical systems-related		
		90140	医療技術評価学関連 ※2				Medical technology assessment-related %2		
		90150	医療福祉工学関連 ※2				Medical assistive technology-related %2		
	-						ion science, computer engineering, applied informatics,		
	61	情報科学	学、情報工学、応用情報学およびその関連	分野(61				
							ted fields		
		育報科	学、情報工学およびその関連分野				ion science, computer engineering, and related tields		
							ion science, computer engineering, and related fields		
		60010	情報学基礎論関連			60010	Theory of informatics-related		
		60010 60020	数理情報学関連						
		-	<u>情報学基礎論関連</u> <u>数理情報学関連</u> 統計科学関連			60010	Theory of informatics-related		
		60020	数理情報学関連 統計科学関連			60010 60020	Theory of informatics-related Mathematical informatics-related		
		60020 60030 60040	数理情報学関連 統計科学関連 計算機システム関連			60010 60020 60030 60040	Theory of informatics-related Mathematical informatics-related Statistical science-related Computer system-related		
		60020 60030 60040 60050	数理情報学関連 統計科学関連 計算機システム関連 ソフトウェア関連			60010 60020 60030 60040 60050	Theory of informatics-related Mathematical informatics-related Statistical science-related Computer system-related Software-related		
		60020 60030 60040 60050 60060	<u>数理情報学関連</u> 統計科学関連 計算機システム関連 ソフトウェア関連 情報ネットワーク関連			60010 60020 60030 60040 60050 60060	Theory of informatics-related Mathematical informatics-related Statistical science-related Computer system-related Software-related Information network-related		
		60020 60030 60040 60050 60060 60070	数理情報学関連 統計科学関連 計算機システム関連 ソフトウェア関連 情報ネットワーク関連 情報セキュリティ関連			60010 60020 60030 60040 60050 60060 60070	Theory of informatics-related Mathematical informatics-related Statistical science-related Computer system-related Software-related Information network-related Information security-related		
		60020 60030 60040 60050 60060 60070 60080	数理情報学関連 統計科学関連 計算機システム関連 ソフトウェア関連 情報ネットワーク関連 情報セキュリティ関連 データベース関連			60010 60020 60030 60040 60050 60060 60070 60080	Theory of informatics-related Mathematical informatics-related Statistical science-related Computer system-related Software-related Information network-related Information security-related Database-related		
		60020 60030 60040 60050 60060 60070 60080 60090	数理情報学関連 統計科学関連 計算機システム関連 ソフトウェア関連 情報ネットワーク関連 情報セキュリティ関連 データペース関連 高性能計算関連			60010 60020 60030 60040 60050 60060 60070 60080 60090	Theory of informatics-related Mathematical informatics-related Statistical science-related Computer system-related Software-related Information network-related Information security-related Database-related High performance computing-related		
		60020 60030 60040 60050 60060 60070 60080 60090 60100	数理情報学関連 統計科学関連 計算機システム関連 ソフトウェア関連 情報ネットワーク関連 情報セキュリティ関連 データベース関連 高性能計算関連 計算科学関連			60010 60020 60030 60040 60050 60060 60070 60080 60090 60100	Theory of informatics-related Mathematical informatics-related Statistical science-related Computer system-related Software-related Information network-related Information security-related Database-related High performance computing-related Computational science-related		
情報学		60020 60030 60040 60050 60060 60070 60080 60090 60100 応用情報	数理情報学関連 統計科学関連 計算機システム関連 ソフトウェア関連 情報ネットワーク関連 情報セキュリティ関連 データベース関連 高性能計算関連 計算科学関連 計算科学関連 数理情報の目的 航台 新生 ブータズース関連 高性能計算関連 計算科学関連 報学およびその関連分野			60010 60020 60030 60040 60050 60060 60070 60080 60090 60100 Applied i	Theory of informatics-related Mathematical informatics-related Statistical science-related Computer system-related Software-related Information network-related Information security-related Database-related High performance computing-related		
情報学		60020 60030 60040 60050 60060 60070 60080 60090 60100	数理情報学関連 統計科学関連 計算機システム関連 ソフトウェア関連 情報ネットワーク関連 情報セキュリティ関連 データベース関連 高性能計算関連 計算科学関連 報学およびその関連分野 生命、健康および医療情報学関連			60010 60020 60030 60040 60050 60060 60070 60080 60090 60100	Theory of informatics-related Mathematical informatics-related Statistical science-related Computer system-related Software-related Information network-related Information security-related Database-related High performance computing-related Computational science-related		
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- (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

	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)	
Nesearch Held		71	71 Biology at molecular to cellular levels, and related fields	
		· ·		
	43010 分子生物学関連 43020 構造生物化学関連	-	43010 Molecular biology-related 43020 Structural biochemistry-related	
	43020 構造生物化学関連 43030 機能生物化学関連		43020 Structural biochemistry-related 43030 Functional biochemistry-related	
	43030 機能生物化学関連 43040 生物物理学関連		43030 Functional biochemistry-related 43040 Biophysics-related	
	43040 生初初理学園連 43050 ゲノム生物学関連		43040 Biophysics-related 43050 Genome biology-related	
	43060 システムゲノム科学関連		43060 System genome science-related	
		70		
	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	12	2 Biology at cellular to organismal levels, and related fields	
	44010 細胞生物学関連		44010 Cell biology-related	
主物系科学	44020 発生生物学関連 44030 植物分子および生理科学関連		44020 Developmental biology-related 44030 Plant molecular biology and physiology-related	
L1007814 J	44030 福徳万子高よび王座科子関連 44040 形態および構造関連	-	44030 Plant molecular biology and physiology-related 44040 Morphology and anatomical structure-related	
Biological	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	
sciences			Dislamy at summinus to nonviotion levels and onthronology and	
	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	/3	⁷³ 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	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	1	46020 Anatomy and histopathology of nervous system-related	
	46030 神経機能学関連		46030 Function of nervous system-related	
	81 農芸化学およびその関連分野	81	31 Agricultural chemistry and related fields	
			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	
	· · · ·	~~	A migultured and any managed biology agricultured according on	
	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	³² 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 field	
	41010 <u>食料農業経済関連</u> 41000 曲業社会構造開速		41010 Agricultural and food economics-related	
	<u>41020 農業社会構造関連</u> 41030 地域環境工学および農村計画学関連		41020 Rural sociology and agricultural structure-related 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		41030 Rural environmental engineering and planning-related 41040 Agricultural environmental engineering and agricultural information engineering-related	
農学·環境学	41050 環境農学関連		41050 Environmental agriculture-related	
	· · ·		Foundation and foundation of an analysis of an and an and the second of an and the second of the sec	
Agriculture	83 森林圏科学、水圏応用科学およびその関連分野	83	related fields	
/Environmental	40010 森林科学関連	1	40010 Forest science-related	
sciences	40020 木質科学関連		40020 Wood science-related	
	40030 水圈生産科学関連	1	40030 Aquatic bioproduction science-related	
	40040 水圈生命科学関連		40040 Aquatic life science-related	
	84 獣医学、畜産学およびその関連分野	84	34 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	Benvironmental 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 Environmental impact assessment-related	
	63040 環境影響評価関連	1	Environmental conservation measure and related fields	
	環境保全対策およびその関連分野	-		
	環境保全対策およびその関連分野 64010 環境負荷およびリスク評価管理関連		64010 Environmental load and risk assessment-related	
	環境保全対策およびその関連分野 64010 環境負荷およびリスク評価管理関連 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	
	環境保全対策およびその関連分野 64010 環境負荷およびリスク評価管理関連 64020 環境負荷低減技術および保全修復技術関連 64030 環境材料およびリサイクル技術関連	-	64020 Environmental load reduction and remediation-related 64030 Environmental materials and recycle technology-related	
	環境保全対策およびその関連分野 64010 環境負荷およびリスク評価管理関連 64020 環境負荷低減技術および保全修復技術関連 64030 環境材料およびリサイクル技術関連 64040 自然共生システム関連	-	64020Environmental load reduction and remediation-related64030Environmental materials and recycle technology-related64040Social-ecological systems-related	
	環境保全対策およびその関連分野 64010 環境負荷およびリスク評価管理関連 64020 環境負荷低減技術および保全修復技術関連 64030 環境材料およびリサイクル技術関連	-	64020 Environmental load reduction and remediation-related 64030 Environmental materials and recycle technology-related	

- 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

	%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)				Re	search content (Medium-sized Section/Basic Section)
	91	薬学お	よびその関連分野	91	Pharma	ceutical 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-relate
		47030			47030	Pharmaceutical hygiene and biochemistry-related
		47040			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	Biomedi	cal 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	-	態学、感染・免疫学およびその関連分野	93		gy, infection/immunology, and related fields
		49010	病態医化学関連		49010	Pathological biochemistry-related
		49020			49020	Human pathology-related
		49030	実験病理学関連	_	49030	Experimental pathology-related
		49040	<u>寄生虫学関連</u> 細菌学関連		49040	Parasitology-related
		49050 49060	神国子関連		49050 49060	Bacteriology-related Virology-related
		49000			49000	Immunology-related
	94		、ブレインサイエンスおよびその関連分野	94		y, brain sciences, and related fields
			およびその関連分野	_		y and related fields
		50010	腫瘍生物学関連	_	50010	Tumor biology-related
		50020	<u>│腫瘍診断および治療学関連</u> ノサイエンスおよびその関連分野	_	50020 Broin og	Tumor diagnostics and therapeutics-related
		51010	基盤脳科学関連	_		iences and related fields
					51010	Basic brain sciences-related
		51020 51030			51020 51030	Cognitive and brain science-related
		内利学	<u> 初恋仲柱付子関連</u> ニー般、器官システム内科学、生体情報内科学およびそ	-	General	Pathophysiologic neuroscience-related internal medicine, organ-based internal medicine, interna
	95	の関連	一般、彼自ノヘノム内特子、土体情報内特子のよいで 公戦	95		e of the bio-information integration, and related fields
			一般およびその関連分野	_		internal medicine and related fields
		52010	内科学一般関連		52010	General internal medicine-related
غند بابار علي س		52020	神経内科学関連		52020	Neurology-related
医歯薬学		52030	精神神経科学関連		52030	Psychiatry-related
		52040	放射線科学関連		52040	Radiological sciences-related
Nedicine		52050	胎児医学および小児成育学関連		52050	Embryonic medicine and pediatrics-related
lentistry and		器官シ	ステム内科学およびその関連分野		Organ-b	ased internal medicine and related fields
harmacy		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	<u>腎臓内科学関連</u>		53040	Nephrology-related
		53050			53050	Dermatology-related
			報内科学およびその関連分野		-	medicine of the bio-information integration and related field
		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 供謝なたび中心20世界	_	54030	Infectious disease medicine-related
		54040	<u> 代謝および内分泌学関連</u> 維持器官の外科学、生体機能および感覚に関する外		54040	Metabolism and endocrinology-related of the organs maintaining homeostasis, surgery related to
	96		はなるの関連分野	96		ogical and sensory functions, and related fields
			維持器官の外科学およびその関連分野			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	1	55030	Cardiovascular surgery-related
		55040		1	55040	Respiratory surgery-related
		55050	麻酔科学関連	-	55050	Anesthesiology-related
		55060	救急医学関連	1	55060	Emergency medicine-related
			能および感覚に関する外科学およびその関連分野	1		related to the biological and sensory functions and related field
		56010	脳神経外科学関連	1	56010	Neurosurgery-related
		56020	整形外科学関連		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			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	
	97					
	97	57010	常態系口腔科学関連		57010	Oral biological science-related
	97	57010 57020	常態系口腔科学関連 病態系口腔科学関連		57020	Oral pathobiological science-related
	97	57010 57020 57030	常態系口腔科学関連 病態系口腔科学関連 保存治療系歯学関連		57020 57030	Oral pathobiological science-related Conservative dentistry-related
	97	57010 57020 57030 57040	常態系ロ腔科学関連 病態系ロ腔科学関連 保存治療系歯学関連 ロ腔再生医学および歯科医用工学関連		57020 57030 57040	Oral pathobiological science-related Conservative dentistry-related Regenerative dentistry and dental engineering-related
	97	57010 57020 57030 57040 57050	常態系口腔科学関連 病態系口腔科学関連 保存治療系歯学関連 口腔再生医学および歯科医用工学関連 補綴系歯学関連		57020 57030 57040 57050	Oral pathobiological science-related Conservative dentistry-related Regenerative dentistry and dental engineering-related Prosthodontics-related
	97	57010 57020 57030 57040 57050 57060	常態系口腔科学関連 病態系口腔科学関連 保存治療系歯学関連 口腔再生医学および歯科医用工学関連 補綴系歯学関連 外科系歯学関連		57020 57030 57040 57050 57060	Oral pathobiological science-related Conservative dentistry-related Regenerative dentistry and dental engineering-related Prosthodontics-related Surgical dentistry-related
	97	57010 57020 57030 57040 57050	常態系口腔科学関連 病態系口腔科学関連 保存治療系歯学関連 口腔再生医学および歯科医用工学関連 補綴系歯学関連		57020 57030 57040 57050	Oral pathobiological science-related Conservative dentistry-related Regenerative dentistry and dental engineering-related Prosthodontics-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

			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)
	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	8 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:実験系を含まなし	۱	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
医歯薬学 (続き)	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
Medicine	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
dentistry and	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
pharmacy	59020 スポーツ科学関連		59020 Sports sciences-related
(continued)	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 人間医工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

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

Research content (Basic Section)	Examples of related research content	Section Research field Research content (Medium-sized	nt(Medium-sized ns) and l corresponding nt(Basic Sections) Research field
		Section)	
02070	Japanese linguistics-related Phonetics/phonology, Writing systems, Lexicon and semantics, Grammar, Stylistics, Pragmatics, Language life, Dialect, History of the Japanese language, History of Japanese linguistics, etc.	12	Humanities
	English linguistics-related		
02080	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.	12	Humanities
	Japanese language education-related		
02090	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.	12, 25	Humanities, Social sciences
	Foreign language education-related		
02100	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.	12, 25	Humanities, Social sciences
	Historical studies in general-related		
03010	Historical theory, Historical methodology, Research in historical materials, Memory and medium, World history, History of cultural and diplomatic exchange, Comparative history, etc.	13	Humanities
03020	Japanese history-related Japanese history in general, History of ancient Japan, History of medieval Japan, History of early modern Japan, History of modern Japan, History of local Japan, History of Japanese culture, History of Japanese religion, History of Japanese environment, History of Japanese city, History of cultural and diplomatic exchange, Comparative history, Research in historical materials, etc.	13	Humanities
	History of Asia and Africa-related		
03030	History of Asia and Africa-Ichaed History of pre-modern China, History of modern China, 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, Comparative history, Research in historical materials, etc.	13	Humanities
	History of Europe and America-related		
03040	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.	13	Humanities
	Archaeology-related		
03050	Archaeology in general, Prehistoric archaeology, Historical archaeology, Japanese archaeology, Asian archaeology, Ancient civilizations, History of material culture, Experimental archaeology, Information archaeology, Study of buried cultural property, etc.	13	Humanities

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

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

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Research content (Basic Section)	Examples of related research content		nt(Medium-sized ns) and l corresponding nt(Basic Sections)
		Research content (Medium-sized Section)	Research field
	Commerce-related		
07090	Marketing, Consumer behavior, Distributive sciences, Logistics, Commerce in general, etc.	23	Social sciences
	Accounting-related		
07100	Financial accounting, Management accounting, Auditing, Accounting in general, etc.	23	Social sciences
	Sociology-related		
08010	Sociology in general, Community, Family, Labor, Sociology of welfare, Gender, Media, Ethnicity, Social movements, Social research, Sociology of medicine, Social demography, etc.	24	Social sciences
	Social welfare-related		
08020	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.	24	Social sciences
	Family and consumer sciences, and culture and living-related		
08030	Culture and living, Home economics, Consumer affairs, Lifestyle, Culture of clothing, Culture of food, Culture of dwelling, Dress and fashion, Diet habits, Housing, Family and consumer sciences in general, Family and consumer education, etc.	24	Social sciences
	Education-related		
09010	History of education, Philosophy of education, Curriculum and pedagogy, Evaluation of education, Teacher and trainer, School education, Social and community education, Vocational education and training, Lifelong learning, Institutions and administration, etc.	25	Social sciences
	Sociology of education-related		
09020	Sociology of education, Socialization, Educational organization and system, Destination and career formation, Class disparities, Gender, Education policy, Comparative education, Globalization and development, etc.	25	Social sciences
	Childhood and nursery/pre-school education-related		
09030	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.	25	Social sciences
	Education on school subjects and primary/secondary education-related		
09040	Education of individual subjects, Education excluding subjects, Student guidance and counselling, Career education, School management, Teacher education, ESD, Environmental education, Literacy, etc.	25	Social sciences
	Tertiary education-related		
09050	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.	25	Social sciences
	Special needs education-related		
09060	Philosophy and history, Inclusion and cohesive society, Instructions and supports, Developmental disabilities, Emotional disturbance, Intellectual disabilities, Language disorders, Physical disabilities, Career education, etc.	25	Social sciences

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

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

Research content (Basic Section)	t Examples of related research content		nt(Medium-sized ns) and corresponding nt(Basic Sections
× ,		Research content (Medium-sized Section)	Research field
	Solid earth sciences-related		Mathematical
17040	Solid earth geophysics, Geology, Earth's interior material science, Solid earth geochemistry, etc.	37	and physical sciences
	Biogeosciences-related		Mathematical
17050	Origin and evolution of life, Extremophile biology, Biogeochemistry, Paleoenvironmental science, Paleontology, etc.	37	and physical sciences
	Fundamental physical chemistry-related		
32010	Theoretical chemistry, Molecular spectroscopy, Structural chemistry, Electronic state dynamics, Chemical reaction dynamics, Surface/interface, Cluster and nano materials, Bio-related physical chemistry, Liquid structure dynamics, Solid state properties, Molecular properties, etc.	41	Chemistry
	Functional solid state chemistry-related		
32020	Optical properties, Electron spin, Molecular electronics and devices, Supermolecules, Liquid crystals, Crystals, Surface/interface, Nano particles, Colloids, Electrochemistry, Electronic properties, etc.	41	Chemistry
	Inorganic/coordination chemistry-related		
34010	Coordination chemistry, Organometallic chemistry, Inorganic solid-state chemistry, Bioinorganic chemistry, Solution chemistry, Clusters, Supramolecular complexes, Coordination polymers, Typical elements, Physical properties and functions, etc.	41	Chemistry
	Analytical chemistry-related		
34020	Spectrometric analysis, Advanced measurements, Surface/interface analysis, Separation analysis, Analytical reagents, Radiochemical analysis, Electrochemical analysis, Bioanalysis, New analysis methods, etc.	41	Chemistry
	Green sustainable chemistry and environmental chemistry-related		
34030	Green process, Green catalysts, Recycle, Environmental assessment, Environmentally conscious materials, Reduction of environmental load, Environmental restoration, Resource saving, Geochemistry, Environmental radioactivity, etc.	41	Chemistry
	Inorganic compounds and inorganic materials chemistry-related		
36010	Crystals, Amorphous, Ceramics, Semiconductors, Inorganic device-related materials, Low-dimensional compounds, Porous materials, Nanoparticles, Multicomponent compounds, Hybrid materials, etc.	41	Chemistry
	Energy-related chemistry		
36020	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.	41	Chemistry
	Structural organic chemistry and physical organic chemistry-related		
33010	Organic crystals, Molecular recognition, Supermolecules, Organic functional materials, Extended π -electron system compounds, Heterocyclic chemistry, Organoelement chemistry, Organic reaction mechanism, Organic photochemistry, Theoretical organic chemistry, etc.	42	Chemistry
	Synthetic organic chemistry-related		
33020	Selective reactions, Asymmetric synthesis, Organometallic complex/catalysis, Catalyst design, Organocatalysts, Biocatalysis, Sustainable organic synthesis, Natural product synthesis, Process chemistry, Organic electrochemistry, etc.	42	Chemistry
	Polymer chemistry-related		
35010	Polymer synthesis, Polymer reactions, Precision polymerization, Functional polymers, Self-assembled polymers, Chiral polymers, Bio-related polymers, Polymer properties, Polymer structures, Polymer thin film/surface, etc.	42	Chemistry

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
	Polymer materials-related		
35020	Properties of polymer materials, Synthesis of polymer materials, Functional polymer materials, Liquid crystal polymers, Textiles, Rubbers, Gel, Biopolymers, Polymer composites, Polymer processing, etc.	42	Chemistry
	Organic functional materials-related		
35030	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.	42	Chemistry
	Bio-related chemistry		
37010	Bioorganic chemistry, Bioinorganic chemistry, Biological reaction engineering, Biofunctional chemistry, Biofunctional materials, Biotechnology, etc.	42	Chemistry
	Chemistry and chemical methodology of biomolecules-related		
37020	Natural product chemistry, Biologically active compounds, Molecular mechanism of biological activities, Biofunctional molecules, Combinatorial chemistry, Metabolomic analysis, etc.	42	Chemistry
	Chemical biology-related		
37030	In vivo functional expression, Intracellular chemical reactions, Drug discovery science, Chemical library, Structure-activity relationship, Chemical probes, Biomolecular measurements, Molecular imaging, Proteomics, etc.	42	Chemistry
	Mechanics of materials and materials-related		р· ·
18010	Structural mechanics, Fatigue, Fracture, Biomaterials, Material design, Material characteristics, Material evaluation, etc.	51	Engineering sciences
	Manufacturing and production engineering-related		
18020	Machine tools, Machining, Non-traditional machining, Ultraprecision machining, Additive manufacturing, Precision metrology, Manufacturing systems, Computer-aided technology, Process planning, etc.	51	Engineering sciences
18030	Design engineering-related	51	Engineering sciences
	Product design, Service design, Design for reliability, Maintainability design, Lifecycle engineering, Reverse engineering, Safety design, Design engineering, etc.		
	Machine elements and tribology-related		
18040	Machine elements, Mechanisms, Tribology, Actuators, Micromachines, etc.	51	Engineering sciences
31010	Nuclear engineering-related Reactor physics and safety design, Thermal-hydraulics and structure, Fuel material, Nuclear chemistry, Nuclear life cycle, Radiation safety, Radiation beam engineering, Plasma engineering for fusion reactor, Equipment and material engineering for fusion reactor, Nuclear social environment, etc.	51	Engineering sciences
31020	Earth resource engineering, Energy sciences-related		
	Earth resource sciences, Resource prospecting, Resource development, Resource cycle, Resource economy, Energy system, Environmental load evaluation, Renewable energy, Natural resource and energy technological policy, etc.	51	Engineering sciences
19010	Fluid engineering-related		
	Fluid machinery, Flow measurement, Computational fluid dynamics, Turbulence, Multiphase flow, Compressible flow, Incompressible flow, etc.	51	Engineering sciences

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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
10000	Thermal engineering-related		Engineering
19020	Heat transfer, Convection, Combustion, Thermophysical properties, Refrigeration and air-conditioning, Heat engine, Energy conversion, etc.	51	sciences
	Mechanics and mechatronics-related	_	Engineering sciences
20010	Kinematics, Kinetics, Vibration, Acoustics, Automation, Learning control, Mechatronics, Micro/nano mechatronics, Biomechanics, etc.	51	
	Robotics and intelligent system-related		Engineering sciences
20020	Robotics, Intelligent system, Human mechanical system, Human interface, Planning, Intelligent spatial system, Virtual reality, Augmented reality, etc.	51	
	Aerospace engineering-related		
24010	Thermo-fluid dynamics, Structural strength, Propulsion, Aerospace craft design, Production engineering, Aircraft system, Specific aircraft, Aerodynamics, Spacecraft system, Space utilization, etc.	51	Engineering sciences
	Marine engineering-related		
24020	Navigation, Structural mechanics, Structural design, Production technology, Marine propulsion, Marine transport, Marine development engineering, Underwater engineering, Polar engineering, Marine environmental technology, etc.	51	Engineering sciences
	Power engineering-related	52	Engineering sciences
21010	Electrical energy-related, Energy conservation, Power system engineering, Electric machinery, Power electronics, Effective utilization of electric energy, Electromagnetic compatibility, etc.		
	Communication and network engineering-related	52	Engineering sciences
21020	Information theory, Nonlinear theory, Signal processing, Wired/wireless communication systems, Modulation/demodulation, Antennas, Networks, Multimedia, Cryptography/security, etc.		
	Measurement engineering-related		Engineering sciences
21030	Measurement theory, Measuring instruments, Applied wave metrology, Measurement systems, Signal processing, Sensing devices, etc.	52	
	Control and system engineering-related	52	Engineering sciences
21040	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		
	Semiconductor, Dielectric materials, Magnetic materials, Organic materials, Superconductor, Composite materials, Thin films, Quantum structures, Thick films, Fabrication/characterization methods, etc.	52	Engineering sciences
	Electron device and electronic equipment-related Electron devices, Circuit design, Optical devices, Spintronic devices,	52	Engineering sciences
21060	Millimeter wave/terahertz wave, Applied wave devices, Storage devices, Displays, Micro fabrication process technology, Implementation technology, etc.		
	Applied physical properties-related	52	Engineering sciences
29010	Magnetic materials, Superconductors, Dielectrics, Fine particles, Organic molecules, Liquid crystals, New functional materials, Organic molecules and bioelectronics, Spintronics, etc.		
29020	Thin film/surface and interfacial physical properties-related	52	Engineering sciences
	Thin-film engineering, Thin-film electronics, Oxide electronics, Vacuum, Surface science, Analysis, Measurement, Nanoscopic technology, Surface and interfacial engineering, Advanced equipment, etc.		

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
	Applied condensed matter physics-related		
29030	Elementary quantities, Standards, Units, Physical quantity measurements and detection, Energy conversion, etc.	52	Engineering sciences
	Crystal engineering-related		
30010	Metals, Semiconductors, Ceramics, Amorphous materials, Crystal growth, Artificial structures, Crystal characterization, Plasma materials engineering, Plasma processing, Plasma engineering, etc.	52	Engineering sciences
	Optical engineering and photon science-related		
30020	Optical materials, Optical elements, Optical properties, Optical information processing, Laser, Optical sensing, Optical recording, Opto-electronics, Nonlinear optics, Vision optics, etc.	52	Engineering sciences
	Civil engineering material, execution and construction management-related		
22010	Concrete, Steel, Composite material, Wood, Pavement material, Repair and reinforce material,	53	Engineering sciences
	Execution, Maintenance, Construction management, Underground space, etc.		sciences
	Structure engineering and earthquake engineering-related		
22020	Applied mechanics, Structure engineering, Steel structure, Concrete structure, Composite structure, Wind engineering, Earthquake engineering, Aseismatic structure, Earthquake prevention, etc.	53	Engineering sciences
	Geotechnical engineering-related		
22030	Soil mechanics, Foundation engineering, Rock engineering, Engineering Geology, Ground behavior, Soil structure, Geo-disaster prevention, Geoenvironmental engineering, Tunnel engineering, Soil environment, etc.	53	Engineering sciences
	Hydroengineering-related		
22040	Hydraulics, Environmental hydraulics, Hydrology, River engineering, Water resource engineering, Coastal engineering, Port and harbor engineering, Ocean engineering, etc.	53	Engineering sciences
	Civil engineering plan and transportation engineering-related		
22050	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.	53	Engineering sciences
	Environmental systems for civil engineering-related		
22060	Environment plan, Environmental system, Environment conservation, Water serve and drainage systems, Waste, Water environment, Atmospheric circulation, Noise and vibration, Environment ecology, Environmental monitoring, etc.	53	Engineering sciences
	Social systems engineering-related		
25010	Social systems, Industrial engineering, Operations research, Industrial management, Reliability engineering, Policy science, Regulatory science, Quality control, etc.	53	Engineering sciences
	Safety engineering-related		
25020	Safety engineering, Safety system, Risk engineering, Risk management, Work safety, Product safety, Safety information, Human engineering, Liability engineering, etc.	53	Engineering sciences
	Disaster prevention engineering-related		
25030	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.	53	Engineering sciences
	Building structures and materials-related		
23010	Load theory, Structural analysis, Structural design, Structures, Earthquake resistant design, Foundation, Geotechnics, Structural material, Maintenance, Building construction method, etc.	53	Engineering sciences

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
	Architectural environment and building equipment-related		
23020	Sound environment, Vibration environment, Light environment, Heat environment, Air environment, Environmental psychology/physiology, Building equipment, Fire engineering, Urban environment, Environment design, etc.	53	Engineering sciences
	Architectural planning and city planning-related		
23030	Planning theory, Design theory, Housing theory, Buildings, Urban/regional planning, Administration, Building economics, Production management, Disaster prevention planning, Landscape, etc.	53	Engineering sciences
	Architectural history and design-related		
23040	Architectural history, Urban history, Architectural theory, Design, Landscape, Preservation, Renovation, etc.	53	Engineering sciences
	Metallic material properties-related		
26010	Electric and magnetic properties, Electronic information properties, Metastable states, Diffusion, Phase transformation, Phase diagram, Crystal lattice defects, Mechanical properties, Thermal and optical properties, Materials computational science, etc.	54	Engineering sciences
	Inorganic materials and properties-related		
26020	Functional ceramics, Functional glasses, Structural ceramics, Carbon-based materials, Crystal structure analysis, Microstructure control, Electric properties, Mechanical properties, Physical and chemical properties, Grain boundary, etc.	54	Engineering sciences
	Composite materials and interfaces-related		
26030	Functional composite materials, Structural composite materials, Biocompatible composite materials, Polymer composite, Surface treatment, Dispersion control, Joining and welding, Adhesive bonding, Interface properties, Gradient function, etc.	54	Engineering sciences
	Structural materials and functional materials-related		
26040	Social infrastructure materials, Toughness, Medical welfare materials, Functional polymer materials, Reliability, Photo-functional materials, Sensor materials, Energy materials, Battery functional materials, Environment functional materials, etc.	54	Engineering sciences
	Material processing and microstructure control-related		
26050	Processing and molding, Thermal treatment, Crystal microstructure control, Laser processing, Precision processing, Polishing, Powder metallurgy, Coatings, Metal plating, Corrosion and protection, etc.	54	Engineering sciences
	Metals production and resources production-related		Engineering sciences
26060	Separation and purification, Melting and solidifying, Crystal growth, Casting, Resource security reservation, Scarce resources substitution, Low environment impact, Recycle, Ecomaterials, Energy saving, etc.	54	
	Transport phenomena and unit operations-related		
27010	Phase equilibrium, Transport properties, Momentum/heat/mass transfer, Fluid-phase unit operation, Adsorption, Membrane separation, Mixing, Powder technology, Crystallization, Film formation, etc.	54	Engineering sciences
	Chemical reaction and process system engineering-related		
27020	Reaction operation, Novel reaction process, Reaction mechanism, Reactor design, Materials synthesis process, Micro-chemical process, Process control, Process system design, Process informatics, etc.	54	Engineering sciences

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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
	Catalyst and resource chemical process-related		.
27030	Catalysis, Catalyst preparation, Catalytic function, Energy conversion process, Energy development, Energy-saving technology, Resources effective utilization technology, etc.	54	Engineering sciences
	Biofunction and bioprocess engineering-related		
27040	Biocatalyst engineering, Biofunction engineering, Food engineering, Medicochemical engineering, Bioproduction process, Nano-bioprocess, Bioreactor, Bioseparation, Biosensor, Biorefinery, etc.	54	Engineering sciences
	Nanometer-scale chemistry-related		
28010	Nanostructure creation, Clusters, Nanoparticles, Mesoscopic chemistry, Superstructures, Nanometer-scale surfaces and interfaces, Self-assembly, Nanocarbons, Molecular devices, Nanometer-scale optical devices, etc.	54	Engineering sciences
	Nanostructural physics-related		En cinconin c
28020	Physics in nanoscale materials and structures, Nanoprobes, Quantum effects, Quantum dots, Quantum devices, Electron devices, Spin devices, Nanotribology, Nanocarbon physics, etc.	54	Engineering sciences
	Nanomaterials-related		
28030	Creation of nanomaterials, Analysis of nanomaterials, Nanosurfaces, Nanointerfaces, Functional nanomaterials, Nanostructures, Nanoparticles, Carbon nanomaterials, Nanocrystalline materials, Nanocomposites, Nanodefects, Nanofabrication process, etc.	54	Engineering sciences
	Nanobioscience-related		
28040	Biomolecular devices, Molecular manipulation, Molecular imaging, Nanomeasurements, Nanosynthesis, Single molecule science, Nano-bio interfaces, Biomolecular array, Genome engineering, etc.	54	Engineering sciences
	Nano/micro-systems-related		
28050	MEMS, NEMS, BioMEMS, Nano/micro-fabrication, Nano/micro-optical devices, Nano/micro-chemical systems, Nano/micro-biosystems, Nano/micro-organism systems, Nano/micro-mechanics, Nano/micro-sensors, etc.	54	Engineering sciences
	Theory of informatics-related		
60010	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.	61	Informatics
	Mathematical informatics-related		
60020	Optimization theory, Mathematical systems theory, System control theory, System analysis, System methodology, System modeling, System simulation, Combinatorial optimization, Queueing theory, Mathematical finance, etc.	61	Informatics
	Statistical science-related		
60030	Statistics, Data science, Modeling, Statistical inference, Multivariate analysis, Time series analysis, Statistical quality control, Applied statistics, etc.	61	Informatics
	Computer system-related		
60040	Computer architecture, Circuit and system, LSI design, LSI testing, Reconfigurable system, Dependable architecture, Low power technology, Hardware/software codesign, Embedded system, etc.	61	Informatics
	Software-related		
60050	Programming language, Programming methodology, Operating system, Parallel and distributed computing, Software engineering, Virtualization technology, Cloud computing, Software dependability, Software security, etc.	61	Informatics

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

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

Research content (Basic Section)	t 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
	Plant molecular biology and physiology-related		
44030	Photosynthesis, Growth physiology, Plant development, Organelle, Cell wall, Responses to environment, Plant-microbe interaction, Metabolism, Plant molecular function, etc.	72	Biological sciences
	Morphology and anatomical structure-related		
44040	Animal and plant morphology, Micro-organismal morphology, Molecular morphology, Microstructure, Tissue organization, Morphogenesis, Comparative endocrinology, Microscopic technology, Imaging, etc.	72	Biological sciences
	Animal physiological chemistry, physiology and behavioral biology-related		
44050	Metabolic physiology, Neurophysiology, Neuroethology, Behavioral physiology, Animal physiological chemistry, Chronobiology, Comparative physiology, etc.	72	Biological sciences
	Genetics-related		
45010	Genetic mechanism, Molecular genetics, Cellular genetics, Population genetics, Evolutionary genetics, Developmental genetics, Behavioral genetics, Genetic diversity, etc.	73	Biological sciences
	Evolutionary biology-related		
45020	General evolutionary biology, Molecular evolution, Phenotypic evolution, Evolution of developmental traits, Evolution of ecological traits, Evolution of behaviors, Experimental evolution, Evolutionary theory, Evolution of symbiosis, Phylogenetics, Speciation, etc.	73	Biological sciences
	Biodiversity and systematics-related		
45030	Taxonomic characters, Taxon, Classification system, Biodiversity, Phylogenetics, Evolution, Natural history, Speciation, etc.	73	Biological sciences
	Ecology and environment-related		
45040	Chemical ecology, Molecular ecology, Physiological ecology, Evolutionary ecology, Behavioral ecology, Population ecology, Community ecology, Ecosystem, Conservation ecology, Natural environment, etc.	73	Biological sciences
	Physical anthropology-related		
45050	Molecular anthropology and genetics, Morphology and function, Bioarchaeology, Behavior and cognition, Ecology, Primates, Evolution, Development and ontogeny, Variation and diversity, etc.	73	Biological sciences
	Applied anthropology-related		
45060	Physiological anthropology, Ergonomics, Forensic anthropology, Medical anthropology, Physiological polymorphisms, Environmental adaptability, Somatic and physiological function, Anthropometry and bioengineering, etc.	73	Biological sciences
	Neuroscience-general-related		
46010	Neurochemistry, Neuron, Glia, Genome, Epigenetics, Neurobiology, Information processing, Synapse, Neurogenesis, etc.	74	Biological sciences
	Anatomy and histopathology of nervous system-related		
46020	Neural development, Anatomy of nervous system, Neural network structure, Neuropathology, etc.	74	Biological sciences
	Function of nervous system-related		
46030	Neurophysiology, Neuropharmacology, Neurotransmission, Neuroinformatics, Behavioral neuroscience, Neural system physiology, Cerebral blood flow, Autonomic nervous system, etc.	74	Biological sciences

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Research content (Basic Section)	Examples of related research content	Section Research field	nt(Medium-sized ons) and d corresponding nt(Basic Sections) Research field
		Section)	researen nera
38010	Plant nutrition and soil science-related Plant metabolism and physiology, Nutritional elements in plants, Soil classification, Soil physical chemistry, Soil organisms, etc.	81	Agriculture/Envir onmental sciences
38020	Applied microbiology-related Microbial genetics/breeding, Microbial function, Microbial metabolism and physiology, Microbial applications, Control of microbes, Microbial ecology, Production of useful materials, etc.	81	Agriculture/Envir onmental sciences
38030	Applied biochemistry-related Cellular biochemistry, Applied biochemistry, Structural biology, Regulation of bioactivity, Metabolism and physiology, Cellular function, Molecular function, Production of useful materials, etc.	81	Agriculture/Envir onmental sciences
38040	Bioorganic chemistry-related Bioactive substances, Signal molecules, Natural products chemistry, Biosynthesis, Structure-activity relationship, Synthetic organic chemistry, Chemical biology, etc.	81	Agriculture/Envir onmental sciences
38050	Food sciences-related Food function, Food chemistry, Nutritional chemistry, Food analysis, Food engineering, Food safety, Functional food, Nutritional epidemiology, Clinical nutrition, etc.	81	Agriculture/Envir onmental sciences
38060	Applied molecular and cellular biology-related Molecular cell biology, Cellular bioengineering, Molecular engineering, Gene expression control, Cell-cell/intermolecular interactions, Cellular function, Production of useful materials, etc.	81	Agriculture/Envir onmental sciences
39010	Science in plant genetics and breeding-related Genetic resources, Breeding theories, Genomic breeding, Plants with novel traits, Quality components, Stress tolerance, Yielding ability, Reproduction and multiplication, Growth physiology, Development, etc.	82	Agriculture/Envir onmental sciences
39020	Crop production science-related 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.	82	Agriculture/Envir onmental sciences
39030	Horticultural science-related 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.	82	Agriculture/Envir onmental sciences
39040	Plant protection science-related Plant pathology, Clinical plant science, Agricultural insect pest, Natural enemy, Weed, Agricultural chemicals, Integrated pest management, etc.	82	Agriculture/Envir onmental sciences
39050	Insect science-related Sericulture insect technology, Insect genetics, Insect pathology, Insect physiology and biochemistry, Insect ecology, Chemical ecology, Systematics, Symbiosis and parasitism, Social insects, Medical entomology, etc.	82	Agriculture/Envir onmental sciences
39060	Conservation of biological resources-related Conservation biology, Biodiversity conservation, Conservation of phylogenetic diversity, Conservation of genetic resources, Ecosystem conservation, Conservation of endemic species, Conservation of microorganisms, etc.	82	Agriculture/Envir onmental sciences

Research content (Basic Section)	Examples of related research content	Section Research field Research content Research content	nt(Medium-sized ons) and I corresponding nt(Basic Sections)
		(Medium-sized Section)	Research field
39070	Landscape science-related 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.	82	Agriculture/Envir onmental sciences
41010	Agricultural and food economics-related Food economy, Agricultural production economy, Policy for agriculture, forestry and fishery, Food system, Food marketing, International agricultural development, Trade of agricultural commodities and livestock products, Rural resources and environment, etc.	82	Agriculture/Envi onmental sciences
41020	Rural sociology and agricultural structure-related Farm organization, Farm management, Agricultural structure, Agricultural market, Agricultural history, Rural society, Rural life, Agricultural cooperative, etc.	82	Agriculture/Envi onmental sciences
41030	Rural environmental engineering and planning-related 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.	82	Agriculture/Envi onmental sciences
41040	Agricultural environmental engineering and agricultural information engineering-related 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.	82	Agriculture/Envi onmental sciences
41050	Environmental agriculture-related Biomass, Environmental manipulation, Biodiversity, Environmental analysis, Ecosystem services, Resources circulation system, Low-carbon societies, Life-cycle assessment, Environmental friendly agriculture, Watershed management, etc.	82	Agriculture/Envi onmental sciences
40010	Forest science-related Forest ecology, Forest biodiversity, Forest genetics and breeding, Silviculture, Forest protection, Forest environments, Erosion control, Forest planning, Forest policy, etc.	83	Agriculture/Envi onmental sciences
40020	Wood science-related Wood structure, Wood property, Lignocellulose, Trace element, Fungus, Wood processing, Biomass-refinery, Wood based material, Wooden building, Forest products education, etc.	83	Agriculture/Envi onmental sciences
40030	Aquatic bioproduction science-related Aquatic environment, Fisheries, Aquatic resource management, Aquatic organisms, Aquatic ecosystem, Aquaculture, Fisheries engineering, Fishing community/fisheries policy, Fisheries economics/management/marketing, Fisheries education, etc.	83	Agriculture/Envi onmental sciences
40040	Aquatic life science-related 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.	83	Agriculture/Envi onmental sciences

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Research content (Basic Section)	Examples of related research content	Section Research field	nt(Medium-sized ons) and l corresponding nt(Basic Sections)
(Dasie Section)		Research content (Medium-sized Section)	Research field
	Animal production science-related		Agriculture/Envi
42010	Breeding/genetics, Reproduction, Nutrition/feeding, Anatomy/physiology, Product, Environment, Behavior, Therapy, Grassland, Grazing, etc.	84	onmental sciences
	Veterinary medical science-related		Agriculture/Envi
42020	Basic veterinary science, Pathological veterinary science, Applied veterinary science, Clinical veterinary science, Animal nursing, Animal welfare, Wildlife, etc.	84	onmental sciences
	Animal life science-related		Agriculture/Envi
42030	Homeostasis, Cellular function, Biological defense, Integrated genetics, Development/differentiation, Biotechnology, etc.	84	onmental sciences
	Laboratory animal science-related		Agriculture/Env
42040	Genetic engineering, Developmental engineering, Animal models of disease, Facility management, Laboratory animal welfare, Laboratory animal-related technology, Bioresource, etc.	84	onmental sciences
	Environmental dynamic analysis-related		
63010	Global warming, Environmental change, Water and material cycle, Polar regions, Chemical oceanography, Biological oceanography, Environmental measurements, Environmental model, Environmental information, Remote sensing, etc.	85	Agriculture/Env onmental sciences
	Radiation influence-related		Agriculture/Env
63020	Radiation, Measurement, Control, Repair, Biological effects, Risk, etc.	85	onmental sciences
	Chemical substance influence on environment-related		Agriculture/Env
63030	Toxicology, Toxic substance to human, Trace chemical substance, Endocrine disruptor, Repair, etc.	85	onmental sciences
	Environmental impact assessment-related		
63040	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.	85	Agriculture/Env onmental sciences
64010	Environmental load and risk assessment-related Environmental analysis, Environmental load analysis, Environmental monitoring, Dynamics of environmental pollution, Environmental modelling, Evaluation of contamination, Exposure assessment, Toxicity evaluation, Environmental assessment, Chemical substance management, etc.	85	Agriculture/Envi onmental sciences
	Environmental load reduction and remediation-related		
64020	Removal of contamination, Treatment of waste material, Control of contamination source, Disposal of waste material, E nvironmental load reduction, Remediation measure of contamination, Noise and vibration reduction, Countermeasure of ground settlement, Bioremediation, Radioactive decontamination, etc.	85	Agriculture/Env onmental sciences
	Environmental materials and recycle technology-related		
64030	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.	85	Agriculture/Envi onmental sciences
	Social-ecological systems-related Biodiversity, Conservation biology, Ecosystem services, Natural capital,	_	Agriculture/Envi
64040	Impact analysis on ecosystem, Ecosystem management, Ecosystem restoration, Ecological engineering, Regional environmental planning, Impact of climate change, etc.	85	onmental sciences

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

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

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

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

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

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

		Research conter	nt(Medium-sized
		Sectio	ns) and
Research content		Research field	l corresponding
(Basic Section)	Examples of related research content	Research conter	nt(Basic Sections)
(Busie Section)		Research content	
		(Medium-sized	Research field
		Section)	
	Medical technology assessment-related		Engineering
90140	Regulatory science, Safety evaluation, Clinical study,	90	sciences,
,	Medical technology ethics, Medical devices, etc.	20	Medicine
			dentistry and
	Medical assistive technology-related		Engineering
	Healthcare and rehabilitation engineering, Life assist technology, Care support technology,		sciences,
90150	Accessibility design, Universal design, Rehabilitation and nursing robot,	90	Medicine
	Assist device for artificial internal organ, Rehabilitation devices, Nursing science and engineering, etc.		dentistry and
			pharmacy

FY2021

Leading Initiative for Excellent Young Researchers

Review Guidelines

Science and Technology Policy Bureau, MEXT April 2021

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 FY2021, 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:

- 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-academiagovernment 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.

(Researcher Form 1)

-	
	Enter into the electronic application system to create this form.
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Leading Initiative for Excellent Young Researchers FY2021 Application Form

Re	eceipt Number		
	Research field	Basic S	Section code
Field	Medium-sized Section		
Field	Basic Section		
	Specialized research field		

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

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

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

Research/job	
history	

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

	□ University
T	□ Inter-University Research Institute Corporation
Institution type of interest regarding	□ College of technology
negotiation among the parties	□ National Research and Development Agency
(Up to three)	Public Research and Development Institute
	\Box Company etc.

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	Ir	nstitution type of
first choice		first choice

Name (name on the		
family register)		
	Postal code:	
Current address		
	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.

- <u>Please check if you do not agree</u> 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.
 - ☐ <u>I do not agree</u> to provide my information to the institutions at the time my application has been accepted.
- 2) <u>Please check the box if you do not agree</u> 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.
 - \Box <u>I do not agree</u> to provide my information to the support agencies at the time the agencies will be decided after my application has been accepted.
 - \Box 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 2021 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 2021 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".

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

Leading Initiative for Excellent Young Researchers FY 2021 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 2021

1) <u>Research theme you want to address as an EYR</u>

<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]

[Research purposes/content (continued)]

<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]

[Research plan/method (continued)]

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]

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

3) Achievements

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

In this column, describe three significant achievements, career events, experiences, etc. since 2016 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 <u>papers which have already been decided to be published can only be listed</u>.

(Examples)

- 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 2016. 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) <u>Taro Gakushin</u>, Hanako Hanzomon, '(Title) ,' " (Name of Journal which carries the article), " ○○ publishing company, No. , pp57-62, 2019
- 2) Jiro Kojimachi, <u>Taro Gakushin</u> '(Title),' "(Name of Journal which carries the article)," 00 publishing company, No., pp33-39,2018
- 3) Hanako Hanzomon, Jiro Kojimachi, <u>Taro Gakushin (the sixth)</u>, 0000, 0000, 0000, 0000, Saburo Chiyoda (00mitted), '(Title),' "(Name of Journal which carries the article)," 00 publishing company, No., pp10-25, 2017

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

1) Taro Gakushin '(Title),' "Name of Journal which carries the article," oo publishing company, No. , pp57-62, 2019

(3) Presentation at an international conference

1) • Gakushin T, Hanzomon H, ...'(Title), "(Name of meeting)," BB-11, Los Angeles, USA, (June 2018)

(4) Presentation at a domestic meeting/symposium

°Taro Gakushin, Hanako Hanzo... '(Title),' "(Name of meeting)," No.200, Sendai, September 2018

(5) Patents

1) (Patent Number), '(Title),' Jiro Kojimachi, Taro Gakushin, April 2018

(6) Others (Awards received etc.)

Taro Gakushin ... '(Name of award),' April 2018

[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 FY2021 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.