

Application Procedures for Grants-in-Aid for Scientific Research - KAKENHI -

FY2024

Fund for the Promotion of Joint International Research (International Leading Research)

This English version is provided for convenience of prospective KAKENHI applicants who experience difficulty in reading the Japanese original, which should be referred to, in case of dispute.

Jan 11, 2024

Japan Society for the Promotion of Science (https://www.jsps.go.jp/)

Introduction

This document describes the procedures and other matters relevant to the Call for Proposals for the Grants-in-Aid for Scientific Research-KAKENHI-"FY2024 Fund for the Promotion of Joint International Research (International Leading Research)" (hereinafter referred to as "International Leading Research").

The contents are :

I. Outline of the Grants-in-Aid for Scientific Research-KAKENHI

II. Call for Proposals

III. Instructions for Prospective Applicants

IV. Instructions for Administrative Staff of Research Institution

V. Other Relevant Issues

VI. Inquiries

"<u>II. Call for Proposals</u>" provides for each of the Research Categories, such basic issues as the subjects in the research categories to be called, the range of envisaged total budget, a project period, etc. The schedule from the call for proposals, through the proposal submission and the review, to the grant delivery is also described.

The subsequent sections, "<u>III. Instructions for Prospective Applicants</u>" and "<u>IV. Instructions for Administrative Staff of Research Institution</u>" describe the conditions for application, required procedures, and other matters, to be followed by the respective parties. Relevant parties are requested to thoroughly check the related chapters.

Explanation of Important Matters

Grants-in-Aid for Scientific Research is a competitive research funding intended to provide financial support for creative and pioneering research conducted by individual researchers. Therefore, the contents of the Research Proposal Document must be original planned by the applicant.

Plagiarism and/or misappropriation of the research contents of others are strictly impermissible. Applicants must comply with research ethics. Please note that the use of generative AI in the preparation of the Research Proposal Document causes the risk of inadvertent infringement of copyright and leakage of personal information and confidential information. It is the responsibility of the individual researcher to make appropriate decisions about the usage of generative AI.

The research using the KAKENHI fund should be carried out by the researcher(s)' own initiative and responsibility. Therefore, the implementation of a KAKENHI research project and publication of the research results are solely attributed to the researcher(s)' responsibility and view, and do not reflect that of the funding sector nor of the government.

To ensure the quality of scientific knowledge and to gain trust of society on scientists and scientific communities, it is essential to exercise fair and conscientious research activities with the adherence to the code of conduct for scientists. Applicants must understand and practice the contents of both the statement "Code of Conduct for Scientists -Revised Version-" (section I. "Responsibilities of Scientists") by the Science Council of Japan and the booklet "For the Sound Development of Science - The Attitude of a Conscientious Scientist -" (especially section I "What Is a Responsible Research Activity?") issued by the Japan Society for the Promotion of Science (JSPS).

• From the perspective of enhancing the quality of research activities among the international scientific research networks, researchers are urged to disseminate their research results aggressively to the international society by publication of scientific papers in international journals, co-authoring of international papers, presentations in international conferences, etc.

Major changes in the Call for proposals for Fiscal Year 2024

(1) Changes to the Structure of the Research Proposal Document

- The structure of the research proposal document will be changed in order to select carefully the research proposals which contribute "to foster researchers". (Refer to Procedures for Preparing and Entering a Research Proposal Document (Forms to be uploaded))
- The "Status of Application and Acquisition of Research Grants" column will not be shown in the Research Proposal Document PDF file. Instead, the content shown in the electronic application system will be reviewed. Nevertheless, this column will remain part of the Research Proposal Document, and the method of entering the Research Proposal Document (Items to be entered in the Website) will remain unchanged. (Refer to Procedures for Preparing and Entering a Research Proposal Document (Items to be entered in the Website))

(2) Participation of JSPS Fellows (DC) as Co-Investigators

OStarting from FY2023, JSPS Fellows (DC) can participate in research projects under KAKENHI-funded research categories as Co-Investigators. (See III. Instructions for Prospective Applicants 1. Procedures to be Completed Prior to Application)

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When preparing the application forms (Research Proposal Document), please refer to the "Procedures for Preparing and Entering a Research Proposal Document (Items to be entered in the Website)" and "Procedures for Preparing and Entering a Research Proposal Document (Items to be uploaded)".

* The application forms (Research Proposal Document) and other application materials can be downloaded from the JSPS website.

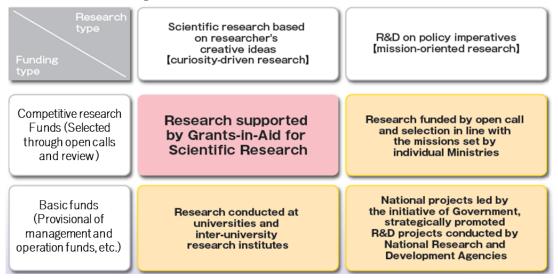
(URL) https://www.jsps.go.jp/j-grantsinaid/35_kokusai/05_sendou/koubo.html

I. Outline of the Grants-in-Aid for Scientific Research-KAKENHI-

1. Purpose and Character of Grants-in-Aid for Scientific Research-KAKENHI-

Grants-in-Aid for Scientific Research (hereinafter referred to as "KAKENHI") are competitive research funds that are intended to promote development of scientific research (based on original ideas of researchers), encompassing basic to applied researches in all fields ranging from humanities and social sciences to natural sciences. The grants provide financial support for creative and pioneering research projects that will become the foundation of social development. The research projects are selected by peer-review process.

<The placement of "KAKENHI" in the policy on the promotion of science, technology and scientific research in Japan>



2. Research Categories

Different research categories of KAKENHI listed below are provided so as to meet the variety of the research content and budget scale.

✤ As of January 2024

Research categories Purposes and description of each research category		Type of fund*1
Grants-in-Aid for Scientific Research		
Grant-in-Aid for Specially Promoted Research	Outstanding and distinctive research conducted by one or a relatively small number of researchers expected to achieve remarkably excellent research results that opens up a new scientific field. The research period is 3 to 5 years. (In a truly necessary case, period up to 7 years is acceptable.) The budget ranges from 200 million to 500 million yen per project (Only in a truly necessary case, budget exceeding 500 million yen is asked for.).	SG
Grant-in-Aid for Scientific Research on Innovative Areas (Research in a Proposed Research Area)	This category is intended to foster novel research areas proposed by diverse groups of researchers that are expected to lead to development and heightening of Japan's research level in the respective fields, to be conducted by collective research efforts through collaboration, scholarly training, shared use of equipment, etc. The period is 5 years. The budget range is generally set between 10 million to 300 million yen per fiscal year per proposed area. [A call for proposals for budget for collecting research results of Finished Research Area only is put out in FY2023 and beyond.]	SG

Grant-in-Aid for Transformative Research Area	 (A) Research areas proposed through co-creative and interdisciplinary efforts of diverse researchers, which aim to create research areas that will lead the way to radical transformation of and change in the existing framework and/or direction of research as well as upgrade and level-up of scientific research in Japan and nurturing young researchers, and will contribute to the development of the proposed research areas through efforts for joint research and shared use of equipment, etc. (5 years; more than 50 million yen and up to 300 million yen per fiscal year per research area (In a truly necessary case, a budget exceeding 300 million yen may be requested.)) (B) Research areas proposed by compact groups of researchers who will be bearers of the next generation of research areas that will lead the way to radical transformation of and change in the existing framework and/or direction of research as well as upgrade and level-up of scientific research in Japan through more challenging and exploratory research, and expected to lead to the Transformative Research Areas (A) in the future. (3 years; 50 million yen or less per fiscal year per research area) 	SG	
Grant-in-Aid for Scientific Research	(S): Creative/pioneering research conducted by one or a relatively small number of researchers.5 years (in principle) 50 million to 200 million yen	(S)	SG
	 (A), (B), (C): Creative/pioneering research conducted by one researcher or jointly by multiple researchers. (A) 3 to 5 years; 20 million to 50 million yen 	(A)	
	(B) 3 to 5 years: 5 million to 20 million yen(C) 3 to 5 years; 5 million yen or less	(B)	MF
		(C)	
Grant-in-Aid for Challenging Research (Pioneering/Exploratory)	Research conducted by a single or multiple researchers that aims at radically transforming the existing research framework and/or changing the research direction and has a potential of rapid development. The scope of the (Exploratory) category encompasses research proposals that are highly exploratory and/or are in their budding stages. (Pioneering) 3 to 6 years; 5 million to 20 million yen (Exploratory) 2 to 3 years; 5 million yen or less		
Grant-in-Aid for Early- Career Scientists	Research conducted by an individual researcher (*2) who is less than 8 years after Ph.D. acquisition. 2 to 5 years; 5 million yen or less	r MF	
Grant-in-Aid for Research Activity Start- up	Research conducted by a single researcher who has been freshly appointed to a research position, or who has returned from his/her maternity, childcare or other kinds of leave. Up to2 years; Up to 1.5 million per fiscal year	Μ	IF
Grant-in-Aid for Encouragement of Scientists	Research conducted by an individual who is ineligible for application for other KAKENHI categories (e.g., individuals who belong to educational or research institutions, private companies, etc. and engage in the researches to contribute to the promotion of the science). 1 year; 100 thousand to 1 million yen	rch	
Grant-in-Aid for Special Purposes	Research projects of pressing urgency and importance.	Μ	IF
Grant-in-Aid for Publicatio Publication of Research Results	n of Scientific Research Results Subsidy for publication and/or international dissemination of research achievements of high academic values executed by academic associations and other organizations.		
Enhancement of International Dissemination of Information	Subsidy for efforts by academic societies and other scholarly organizations to strengthen international dissemination of academic information for the purpose of international academic exchange.	S	G
Scientific Literature	Subsidy for academic publication of research results (books) authored by an individual or a group of researchers.		
Databases	Subsidy for creation and operation of a database open to public use by an individual or a group of researchers.		
 Grant-in-Aid for JSPS Fellows	Funding period is up to 3 years for research conducted by JSPS Fellows (including Foreign JSPS Fellows). As for Cross-border Postdoctoral Fellowship (CDP) the period is up to 5 years	M	IF

Fund for the Promotion of	Joint International Research	
International Leading	This grant aims to enable research groups led by top-level researchers in our	
Research	country to play a central role in the international network, thereby achieving	
	research results of high scientific value internationally. With the participation of	
	postdoctoral fellows and graduate students, the grant seeks to foster researchers	
	who can play leading roles in the international research community in the future.	
	(7 years (extendable up to 10 years); up to 500 million yen)	
Fostering Joint	Support of joint international research project conducted by a KAKENHI grantee in	
International Research	collaboration with researcher(s) at a foreign university or a research institution over	
	a period of 6 to 12 months. The grant seeks to markedly advance research plans for	
	the root research project and to foster independent researchers who can be	
	internationally competitive. (The budget is up to 12 million yen.) [The category name	
	is changed from FY2023 call for proposals.]	
International	Support of joint international research project conducted by multiple domestic	
Collaborative Research	researchers and a researcher who belongs to overseas research institution. In addition	MF
	to the development of scientific research, the grant seeks to build out infrastructure	
	of joint international research or further strengthen joint international research and to	
	foster researchers who can be internationally competitive. (The period is 3 to 6 years.	
	The budget is up to 20 million yen.)	
	[The category name is changed from the FY2023 call for proposals.]	
International Activities	Support of international activities within Scientific Research on Innovative Areas.	
Supporting Group	(Set period of the Area, up to 15 million yen per fiscal year)	
	[After FY2018 call for proposals "International Activities Supporting Group" has	
	been incorporated into "Grant-in-Aid for Scientific Research on Innovative Areas	
	"Administrative Group." (It continued until the FY2019 call for proposals.)]	
Home-Returning	Support of research to be conducted by a Japanese researcher with current affiliation	
Researcher	abroad who is to be newly appointed at university or research institution in Japan.	
Development Research	(The period is up to 3 years. The budget is up to 50 million yen.)	

*1 SG: Series of Single-year Grants, MF: Multi-year Fund

*2 Individuals who are in the prospect of acquiring Ph.D. are also eligible. When counting the years after Ph.D. acquisition, the period of maternity leave and childcare leave can be excluded.

3. Role Sharing Between MEXT and JSPS

Up to FY 1998, all aspects of KAKENHI funding were handled by the Ministry of Education (the predecessor of MEXT). From FY1999 on, these tasks have been gradually transferred to JSPS. The current role-sharing between MEXT and JSPS is as shown below.

		Grant delivery
Research category	Call for proposals, Review Preparation of the document(s) for procedures, Reception of proposal submission	Notifications of unofficial decision Reception of the application form (after unofficial decision) and other documents for the relevant procedures. Notification of grant decision
Scientific Research on Innovative Areas, Transformative Research Areas, Special Purposes, Fund for the Promotion of Joint International Research (International Activities Supporting Group)	MEXT	JSPS
Specially Promoted Research, Scientific Research, Challenging Exploratory Research, Challenging Research, Early-Career Scientists, Research Activity Start-up, Encouragement of Scientists, Publication of Scientific Research Results, JSPS Research Fellow, Fund for the Promotion of Joint International Research (International Leading Research, Fostering Joint International Research, International Collaborative Research, Home- Returning Researcher Development Research)	JSPS	JSPS

4. Rules Pertaining to KAKENHI

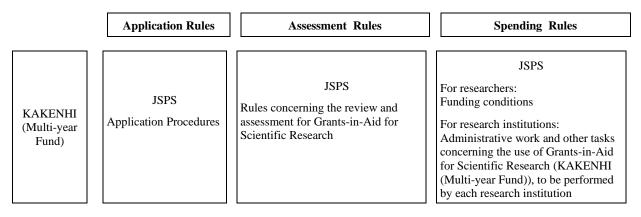
<u>KAKENHI</u> (Multi-year Fund) are governed by laws and regulations including the "Act on Regulation of Execution of Budget Pertaining to Subsidies, etc." (Act no. 179 of 1955) with modifications, the "Basic Policy on the Management of the KAKENHI (Multi-year Fund) (Decision by the Minister of Education, Culture, Sports, Science and Technology)," and the "Procedures on the Handling of JSPS Grants-in-Aid for Scientific Research (KAKENHI (Multiyear Fund))" (Rule No. 19, 2011).

(1) Three Types of Rules Pertaining to KAKENHI

The following three sets of rules pertain to various aspects of KAKENHI.

- i) Application Rules: rules concerning the submission of research proposals
- ii) Assessment Rules: rules concerning the pre-assessment (review) of applications, and rules concerning the interim, and other progress assessment of granted projects.
- iii) Spending Rules: rules concerning the use of KAKENHI

These three sets of rules apply as follows.



(2) Appropriate Use of KAKENHI

KAKENHI are funded by the tax of citizens and other sources, so please ensure that the KAKENHI is used efficiently and effectively, for example through planning for the communal use of purchased items.

Researchers receiving the KAKENHI have a duty to comply with the related laws, regulations and spending rules by researchers (supplementary conditions or funding conditions), and also to use such grants appropriately. To facilitate the appropriate use of KAKENHI, research institutions to which the researchers belong are responsible for the management of KAKENHI. The Administrative work that each research institution is required to carry out (rules for use for institutions) is determined by JSPS. The research institutions are responsible for the appropriate accounting of KAKENHI. It is desirable, for example, to set up an accounting system for proper management of KAKENHI budget and expenditure, purchase order and delivery inspection, and internal auditing. To prevent improper business transactions, it is important, in addition to appropriate delivery inspections, to make all traders thoroughly informed of the KAKENHI rules

and thus obtain cooperation of traders in the prevention of this kind of fraudulent accounting. Research institutions should take rigorous measures so as to eliminate business malpractice.

KAKENHI applicants and their research institutions must have full understanding of the KAKENHI rules prior to the submission of their research proposals.

(3) Important Note for the Use of KAKENHI (Multi-year Fund)

<u>The KAKENHI (Multi-year Fund) is</u> handled as single funding for the whole research period. Therefore, it is possible to use the grant to cover the expenditures extending over fiscal year boundaries.

Moreover, if an amount of grant remains unused by the end of a fiscal year, it can be carried over to the successive fiscal year(s) as long as they are within the overall research period, without going through prior authorization procedures. In case such a grant carry-over becomes necessary in the final year of the research period, the grantee may choose to request an official approval of one-year extension of the research period.

(4) Penalty for Non-submission of "Report on the Research Achievements"

i) The "Report on the Research Achievements" plays the important role in making the achievements of the research funded by the KAKENHI widely known to the public, and thereby returning the outcome of KAKENHI supported by citizens' tax, to the society.

The contents of the "Report on the Research Achievements" submitted by KAKENHI grantees are compiled and made available to the public on the "Grants-in-Aid for Scientific Research Database" (KAKEN) of the National Institute of Informatics and other platforms. "Report on the Research Achievements" should be submitted via the research institution to which the KAKENHI grantees belong.

ii) No KAKENHI grant will be awarded to a researcher who failed to submit the "Report on the Research Achievements" at the end of his/her research period without any justifiable reason. If such a non-compliance case is uncovered, the decision of grant award to the researcher in question may be cancelled, the on-going grant may be suspended, and return of the delivered grant may be ordered. In addition, relevant information, such as the name of the research institution to which the researcher in question belongs, may be made public.

Furthermore, if researchers have failed to submit the scheduled report on the research achievements without justifiable reason, then execution of other KAKENHI implemented in the same fiscal year will be suspended. Therefore, it is the responsibility of the representative of the research institution to ensure that the report on the research achievements is submitted without fail.

(5) Penalty for the Case of Infringement of Related Laws and Regulations

If there have been serious falsehoods in the application documents, or violation of relevant laws, regulations and guidelines, the delivery of KAKENHI may be suspended or cancelled.

5. "Guidelines on the Proper Implementation of Competitive Research Funds," etc.

The "Guidelines on the Proper Implementation of Competitive Research Funds" (Agreement of the Liaison Meeting of Related Offices and Ministries on Competitive Research Funds, September 9, 2005; revised December 17, 2021) states common understandings among the research-related ministries and offices in regard to allocation of competitive research funds, in terms of elimination of such inappropriate practices as unreasonable duplication and/or excessive overconcentration in the grant allocation, fraudulent acquisition and/or unlawful use of grants, and misconducts in research activities. The implementation of the KAKENHI system as well as other competitive research funds scheme follows the above-mentioned "Guidelines" and other related rules. Applicants are urged to take special notice of the following points.

(1) Elimination of Unreasonable Duplication and/or Excessive Overconcentration in the Grant Allocation

 i) Towards elimination of "Unreasonable Duplication and/or Excessive Overconcentration" (*) of competitive research funds, relevant information on funding applications is shared among the pertinent ministries and funding agencies, making use of the Cross-ministerial Research and Development management system (e-Rad).

Therefore, applicants, when submitting more than one KAKENHI applications and/or other competitive research funds, are urged to prepare their application documents with due care to clearly state the differences between the project to be submitted and their other projects so as to make it clear that they do not constitute unreasonable duplication.

In case a particular KAKENHI application is recognized as constituting a case of unreasonable duplication and/or excessive overconcentration, that application may not be granted.

- ii) The following conducts may result in rejection of the research project, cancellation of grant, or reduction of the research budget: untruthful statement or misrepresentation in any of the entry of the status of applications and acquisitions of other competitive research funds (including those of other ministries) and other grants in the research proposal document (such as name of research grant, title of research project, research period, amount of budget, effort, affiliated institution/position upon application/acquisition of such grants, etc.); if it is found that the applicant has not appropriately shared with his/her affiliated research institution, the information necessary to ensure the transparency of all research activities that he/she is involved in, including information on supports other than monetary funds, for example, through the provision of facilities and/or equipment.
- iii) Inquiries on the status of acceptance of facilities and/or equipment used for the research, the status of management of such facilities/equipment, and request for other information may be made to researchers, etc.

(*) Elimination of Unreasonable Duplication and Excessive Overconcentration in Grant Allocation

"Guidelines on the Proper Implementation of Competitive Research Funds" - Extract-

(Agreement of the Liaison Meeting of Related Offices and Ministries on Competitive Research Funds, September 9, 2005; revised December 17, 2021)

2. Elimination of Unreasonable Duplication and/or Excessive Overconcentration in the Grant Allocation

- (1) Basic Policy of the Unreasonable Reduplication and Excessive Overconcentration
 - i) In the Guidelines, "Unreasonable Duplication" refers to a situation where more than one competitive research fund and other research grants (all current research funds that are allocated to individual research contents, including both domestic and overseas grants-inaid, subsidies, joint research funds, commissioned research funds, etc.; hereinafter the same) are unnecessarily and redundantly allocated to the same research project (meaning, the name and content of the research to which the competitive research funds are allocated; hereinafter the same) by the same researcher. Any of the following cases fall under "Unreasonable Duplication."
 - oCases where simultaneous applications have been made to more than one competitive research funds / other research funds for substantially the same research project, and where these research projects are redundantly adopted.
 - OCases where an application has been made again for substantively the same research project as another project that has already been adopted, and for which the allotment of competitive research funds / other research funds has already been completed.
 - OCases where there is duplication in the use of research funds among more than one research projects.

OOther cases corresponding to those above.

ii) In these guidelines, "Excessive Concentration" is a situation in which the entire research funds that are allotted to one and the same researcher or research group (hereinafter referred to as "researcher, etc.") in the fiscal year in question exceeds the limit within which they can be used effectively and efficiently, and in which the research funds cannot be used within the research period. Either of the following cases falls under "Excessive **Concentration.**"

•Cases where, in the light of the abilities of the researcher, etc. and the research methods, etc., excessive research funds are allotted.

- ○Cases where, in comparison with the effort (the time allocation rate (%) of time necessary for the implementation of the research activities with the entire working time of researcher) that is being allotted to the research project in question, excessive research funds are allotted.
- **O**Cases where the purchase of unnecessarily expensive equipment is carried out.

OOther cases corresponding to the cases mentioned above.

(2) Dealing with "Improper Grant Spending," "Fraudulent Grant Acquisition" or "Research Misconduct"

"Improper Grant Spending," "Fraudulent Grant Acquisition" and "Research Misconduct" refer to the following type of acts respectively.

· "Improper Grant Spending":

Use of competitive research funds for other purposes, intentionally or by gross negligence, for example, by conducting fictitious business transactions ("azukekin") with a trader through fictitious order placements, or by charging costs higher than actually needed for personnel, travel expenses, etc., or use of competitive research funds in violation of the content of the funding decision or the conditions it implies.

• "Fraudulent Grant Acquisition":

Receiving competitive research funds by deception or other fraudulent means, for example, by applying under the name of another researcher, or by making false entries in application documents.

"Research Misconduct":

Fabrication, falsification, or plagiarism of data, information, or findings published research

achievements based on the intent of the researcher, or the failing of the researcher to fulfill the basic duty of care that he/she has.

i) No KAKENHI will be offered, for a fixed period of time, when a researcher or related party has committed an improper grant spending of KAKENHI, has committed a fraudulent grant acquisition of KAKENHI, or has committed a research misconduct. Moreover, for research projects for which it is established that an improper grant spending of grants, a fraudulent grant acquisition of grants or research misconduct has been committed, the researcher in question may be required to return the given KAKENHI completely or partially. Moreover, an outline of the improper grant spending of KAKENHI, the fraudulent grant acquisition of KAKENHI, and/or the research misconduct in question of the researcher who falls in those categories (containing an outline of the outcome of the investigation in the research institution, the names of the people involved, the name of the system, the institution they belong to, the research project, the budget, the fiscal year of the research, the fraudulent content, details of the measures taken, etc.) will be made public. Also, researchers who have committed improper grant spending or fraudulent grant acquisition of competitive research funds other than the KAKENHI (including funds under the jurisdiction of other Offices and Ministries), etc., and/or has committed research misconduct by means of these competitive research funds, and therefore are excluded from receiving these funds in question for a certain period of time, will not receive the

KAKENHI for the same period of time.

Note: This applies to those schemes newly starting a call for proposals in FY2024 (and onward) for "competitive research funds other than KAKENHI, etc. (including funds under the jurisdiction of other Offices and Ministries)" as well. It also applies to those schemes that ended before FY2023. Refer to the website below for the schemes to which this specifically applies at present. URL: https://www8.cao.go.jp/cstp/compefund/

<Period of KAKENHI suspension>

Improper Grant Spending and Fraudulent Grant Acquisition of KAKENHI

Researcher categories	Extent of t	Period of KAKENHI suspension	
I. Researchers who committed improper grant spending of KAKENHI and researchers who conspired in such acts	1. Misappropriation of KAKENHI for personal gain		10 years
II. Researchers who committed improper grant spending of KAKENHI and researchers who conspired in such acts	2. Other than 1.	(i) Cases of major seriousness and maliciousness	5 years
		(ii) Cases other than (i) and (iii)	2 to 4 years
		(iii) Cases of minor seriousness and maliciousness	1 year
III. Researchers who acquired KAKENHI by deception or other fraudulent means and researchers who conspired in such acts	-		5 years

IV. Researchers who were not		The upper limit is 2 years
		and the lower limit is 1 year
directly involved in the		depending on the degree of
improper grant spending of	_	the breach of duty by the
KAKENHI, but failed to		researchers who have the
exercise due care and used		duty of care as a good
the funds as a result.		5 0
		manager

For cases judged as subcritical to the punitive suspension measures, sharp reprimand is administered to the individual(s) concerned.

The following cases are pertinent to the "sharp reprimand" penalty.

- 1. Among the case II above, the researchers in case that the influence on society and the maliciousness of their conducts are judged to be insignificant and the amount of money involved is small.
- 2. Among the case IV above, the researchers in case that the influence on society and the maliciousness of their conducts are judged to be insignificant.

	Period of KAKENHI Suspension				
Sub		malicious individual(s) who, for ex ng of the research	ample, had intention of research misconduct from the	10 years	
Cert(b) Author(s)of paper(s),of paper(s),etc. relatedto theto theresearch inMiresearchMiresearchMiresearchidentified(other than	of paper(s), etc. related	Responsible author(s) of the paper(s) in question	Cases where it is judged that the impact on the progress of the science in the field in question and the social impact are major, or the level of maliciousness involved in the acts is high	5 to 7 years	
	identified r	research in which research	(corresponding author, lead author or other authors bearing equivalent responsibilities)	Cases where it is judged that the impact on the progress of the science in the field in question and the social impact are minor, or the level of maliciousness involved in the acts is low	3 to 5 years
		Author(s) of the paper(s) in question other than the responsible author(s) described above		2 to 3 years	
 (c) Individual(s) involved who are not the authors of the research paper(s) for which research misconduct(s) are identified. 		e research paper(s) for which		2 to 3 years	
Responsible author(s) of paper(s), (corresponding author, lead author or other authors bearing equivalent responsibilities) for which research misconduct(s) are identified, but not involved in the alleged research misconduct		other authors bearing equivalent	Cases where it is judged that the impact on the progress of the science in the field in question and the social impact are major, or the level of maliciousness involved in the acts is high	2 to 3 years	
			Cases where it is judged that the impact on the progress of the science in the field in question and the social impact are low, or the degree of severity of the acts is low	1 to 2 years	

Research Misconduct

* In cases where specific issues for extenuation such as voluntary withdrawal of the paper in question may be taken into account, the suspension period can be shortened as judged fit.

- ii) The relevant information of each improper grant spending, fraudulent grant acquisition and research misconduct case may be provided to the offices of the research funding agencies (including Incorporated Administrative Agencies) under the jurisdiction of the relevant Office. Thereby the penalized researcher may be also subject to restriction in application of and/or participation to research projects in other competitive research funds other than KAKENHI.
 - Note: "Application and/or participation" means proposing new research projects, applying, responding to call for proposals, newly participating to research as a person involved in collective research, etc. and participating as a Principal Investigator or a person involved in collective research, etc. in research projects in progress (continued research projects).

iii) Research institutions are required to comply with the "Guidelines on the Management and Audit of Public Research Funds at Research Institutions (Implementation Standards) (revised on February 1, 2021), Ordered by the Minister of Education, Culture, Sports, Science and Technology" and the "Guidelines for Responding to Research Misconduct (adopted August 26, 2014 by MEXT)." Therefore, research institutions should pay adequate attention to these two sets of Guidelines when researchers implement their research activities.

In case where the status of the system improvement in line with these guidelines is recognized inadequate based on the survey results, the measures such as the reduction in indirect cost of all kinds of competitive research funds disbursed by MEXT or the Incorporated Administrative Agencies under the control of MEXT to the research institution(s) in question can be taken.

 Guidelines on the Management and Audit of Public Research Funds at Research Institutions" (Revised February 1, 2021; Ministry of Education, Culture, Sports, Science and Technology)

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

○ "Guidelines for Responding to Research Misconduct" (Established August 26, 2014; Ministry of Education, Culture, Sports, Science and Technology)

URL: https://www.mext.go.jp/a_menu/jinzai/fusei/index.htm

Reference: Examples of improper grant spending, fraudulent grant acquisition and research misconduct of KAKENHI.

O Improper grant spending

- Someone instructed a trader to forge fictitious transaction pretending to have purchased expendables, made the university pay a KAKENHI for them, and then instructed the trader to keep the money as deposit for future use.
- Someone instructed a trader to forge a fictitious transaction, obtaining a false invoice which carries item names different from those actually ordered and delivered, and then made the university pay a KAKENHI for them.
- Someone instructed his/her students to submit false work attendance sheets, made the university pay a KAKENHI for them, and then kept the money as a pooled fund of his/her lab.
- Someone visited destination not listed on the oversea travel itinerary, in order to have a meeting on cooperative research unrelated to the purpose of the KAKENHI research project.
- (Note) The expenditure of the KAKENHI for fictitious and other transactions, like the ones mentioned in the case examples above, are all considered "misappropriation or misuse," even if the expenditure was intended for the purpose of conducting the KAKENHI research project.

O Fraudulent grant acquisition

- A researcher ineligible for the KAKENHI funding made application and acquired a KAKENHI grant.
- **O** Research misconduct
- Someone manipulated or forged experimental data or figures in a research paper published as an achievement of the research supported by a KAKENHI.
- Someone published books of his/her achievement with KAKENHI which contained an article translated from an original English research paper with no prior consent from the author(s) nor proper quotation statement.

6. Dissemination, Etc. of Research Achievements Supported by KAKENHI

KAKENHI research achievements are made available to other researchers and to the general public, through posting of the "Research Outline" and the "Report on the Research Achievements" on the Grants-in-Aid for Scientific Research Database (KAKEN) operated by the National Institute

of Informatics.

Moreover, the expenses for outreach-related activities including dissemination of international research achievements by publishing research papers, etc., can be covered by direct expenses. The KAKENHI grantees are urged to actively pursue public promotion of their international research achievements through the aid of KAKENHI so as to make them widely known to the public at large.

Upon disseminating the research achievements, please take note of the following issues as well.

(1) The acknowledgement for KAKENHI grant in research publications

When publishing research achievements of the KAKENHI project, researchers must indicate that the project has been supported by the KAKENHI grant, by stating in the "Acknowledgment" or other designated section of the paper, the "JSPS KAKENHI Grant Number JP8 digits" in the case of English publication or "JSPS 科研費 JP8 桁の課題番号" in the case of Japanese publication.

(Example)

【English】 This work was supported by JSPS KAKENHI Grant Number JP12K34567. 【Japanese】本研究は JSPS 科研費 JP12K34567 の助成を受けたものです。

(2) The implementation of the fair and conscientious research activities

The research using the KAKENHI should be carried out based on researcher's own self-awareness and responsibility. Therefore, the publication on the implementation of the research or research achievements, etc. should not come from the government request and the views and responsibilities on the research achievements should be attributed to the researchers themselves.

On the occasion such as researchers release the research achievements using the KAKENHI broadly to the public, the examples of the indication noting that the research achievements are based on the personal views are given below.

(Example)	
[English]	Any opinions, findings, and conclusions or recommendations expressed in this
	material are those of the author(s)' and do not necessarily reflect the views of the
	author(s)' organization, JSPS nor MEXT.
[Japanese]	本研究の成果は著者自らの見解等に基づくものであり、所属研究機関、資
	金配分機関及び国の見解等を反映するものではありません。

(3) Promotion of "Open Access" to the research papers supported by KAKENHI grants

JSPS endorses general policy of promotion of open access of publications of research results funded by public grants including KAKENHI. Note that open access is not mandatory if there are justifiable reasons for deferral such as copyright-related issues, or insufficient repository infrastructure at the research institution.

○Implementation policy on open access of papers, which are supported by research funds by KAKENHI grants of JSPS

URL: https://www.jsps.go.jp/j-policy/open_science/

About Open Access:

What is "Open Access"

"Open Access" refers to the idea that research papers published in peer-reviewed journals, etc. should be made freely accessible by anyone online.

Ways to Open Access

There are three main ways of open access implementation ((i) to (iii) below).

- i) A way in which the article published in the conventional subscription fee type academic journal after a certain period (Embargo)(*1) (for example 6 months later) is made open access by opening the final manuscript to an Institutional Repository(*2) established by the research institution to which the author belongs, or by opening the final manuscript to the website, etc. established by the researchers (self-archiving)(*3).
- ii) A way to make the article open access by posting the article on the web established by the research community or public institution.
- iii) A way to make the article open access immediately by paying the publication fee (APC: Article Processing Charge) by the author of the article.

*1: Embargo

The predetermined period from the time of publication of an article in an academic journal to the time of release so that it can be posted on an online open access archiving system (repository).

*2: Institutional Repository

An online archiving system created by university or research institution for storage and dissemination of the intellectual products. Institutional repositories play important roles in the reform of academic information distribution by enabling the researchers register their own articles, such as the transmission of research and education achievements of the research institution, PR for both the research institution and the researcher, guaranteeing the accountability of research and education activities towards society, and the long-term conservation of intellectual products.

*3: Self-archiving

"Self-archiving" refers to online posting of articles published in academic journals, dissertations, or data by those other than the publisher (the researcher or research institution) generally on their institutional repositories.

iv) Management of Research Data

As to the management and utilization of research data obtained through the implementation of research activities, in order to secure the autonomy of Japan's research and development activities and promote international open science, policies such as the Sixth Science, Technology, and Innovation Basic Plan (Cabinet Decision on March 26, 2021), Basic Policies on the Management and Utilization of Research Data Created by Publicly-Funded Research Activities (April 27, 2021, Decision of Council for Integrated Innovation Strategy) and the Integrated Innovation Strategy 2020 (Cabinet Decision on July 17, 2020) call for initiatives towards strategic storage and management of research data as well as broader utilization of the research results.

Therefore, there is a plan in which, starting from the FY2024 KAKENHI call for proposals, upon formal application for grant delivery, the Principal Investigator of an adopted research project will be asked to make a Data Management Plan ("DMP") outlining the storage and management, etc. of research results and research data of his/her research project.

OThe Sixth Science, Technology, and Innovation Basic Plan (Cabinet Decision on March 26, 2021)

URL: https://www8.cao.go.jp/cstp/kihonkeikaku/6honbun.pdf

OBasic Policies on the Management and Utilization of Research Data Created by Publicly-Funded Research Activities (April 27, 2021, Decision of Council for Science, Technology and Innovation) URL: https://www8.cao.go.jp/cstp/tyousakai/kokusaiopen/sanko1.pdf

7. Code of Conduct for Scientists to Adhere

To ensure the quality of scientific knowledge and to gain trust of society on scientists and scientific communities, it is essential to exercise fair and conscientious research activities with the adherence to the code of conduct for scientists. Applicants must understand and practice the contents of both the Statement "Code of Conduct for Scientists -Revised Version-" (section I. "Responsibilities of Scientists") by the Science Council of Japan and the booklet "For the Sound Development of Science -The Attitude of a Conscientious Scientist-" (especially section I "What Is a Responsible Research Activity?") issued by JSPS.

And also take note that upon the formal application for grant delivery, it shall be confirmed through the electronic application system whether the Principal Investigator and Co-Investigator(s) will have taken the research ethics education coursework, etc. (see "III. Instructions for Prospective Applicants 4.Completion of Research Ethics Education Course or Other etc.")

(Research that Answers to Social Wishes)

4 Scientists shall recognize that they are responsible for answering to the wishes of society to investigate into truths and to achieve various issues. When using research funds that are to be provided for establishing the research environment and for conducting research scientists shall always recognize that such broad social expectations exist.

(Accountability and Disclosure)

5 Scientists shall strive to disclose and actively explain the roles and significance of their own research, evaluate the possible effects of their research on people, society and the environment as well as the changes that their research might engender, neutrally and objectively disclose the results of this evaluation, and build a constructive dialogue with society.

(Dual Use of Scientific Research Outcomes)

6 Scientists shall recognize that there exist possibilities that their research results, contrary to their own intentions, may be used for destructive actions, and shall select appropriate means and methods as allowed by society in conducting research and publicizing the results.

URL: http://www.scj.go.jp/ja/scj/kihan/

"For the Sound Development of Science – The Attitude of a Conscientious Scientist –" by JSPS (Japanese version (text version)) ("For the Sound Development of Science" Editorial Committee on JSPS) URL: https://www.jsps.go.jp/j-kousei/

II. Call for Proposals

1. Research Categories for which a Call for Proposals is Organized

Fund for the Promotion of Joint International Research (International Leading Research): KAKENHI (Multi-year Fund)

A) Purpose:

This grant aims to enable researchers to achieve major developments in creative and pioneering research by providing KAKENHI (Multi-year Fund)'s flexible large-scale long-term support for outstanding international research. We expect to see research groups led by top-level researchers in our country to play a central role in the international network, thereby achieving research results of high scientific value internationally as well as furthering internationalization and advancing the level of research across such scientific fields.

Moreover, this research category will require the participation of postdoctoral fellows and graduate students. In doing so, the grant seeks to foster researchers who can play leading roles in the international research community, and to maintain and develop the environmental base for joint international research in the medium and long perspective.

Since this research category aims to support researchers who play a central role in joint international research and to help foster researchers, the funds will be granted to highly selected research projects. Proposals will be assessed, not only in terms of whether the research initiatives are significant as curiosity-driven research, but also in terms of their progressiveness, future potentials, and competitiveness, etc. as joint international research.

B) Funding target:

Research plans that satisfy both requirements (1) and (2) below will be eligible:

*When formulating the research plan, please give due attention to the feasibility of the project in view of the situation, etc. of the countries or regions in which the affiliated institutions of overseas joint researchers are located.

(1) A research plan that is expected to produce outstanding research results by receiving focused grants; to be conducted as joint international research between "Japanese researchers who have records of excellent research achievements and international research networks," and researchers who belong to research institutions abroad and have internationally excellent research achievements ("Overseas Joint Researchers").

* The Principal Investigator must have achieved and published internationally outstanding research results to be eligible; for example, having co-authored an international joint paper (only those published in and after 2018) as corresponding author, which was ranked in the top 10% most highly cited papers. In some fields, "internationally outstanding research results" could mean the following:

- Experience as a representative of a large international collaboration (e.g., a spokesperson who plays a central role in the project and is responsible for the whole operation of the project)
- Author of prominent academic books that are published abroad and highly appraised within the international research community (only those published in and after 2013)

(2) A research plan that is to be carried out by a research team consisting of multiple researchers (Principal Investigator (PI) and Co-Investigators (Co-Is)), and a group of postdoctoral fellows (PDs) and graduate students (doctoral course students, DCs) as Research Collaborators. The number of PDs and DCs should be approximately three times that of the PI and Co-Is.

* In view of the aims of this research category to achieve research results of higher quality and to contribute to fostering researchers who can play leading roles in the international research community, the standard percentage of expenses for the development of human resources shall be 70% of the proposed total budget. In addition, it is mandatory to include the following initiatives in the research plan:

- Plans of dispatching PDs and DCs to overseas research institutions and of implementing international exchanges with Overseas Joint Researchers (mainly for 2-3 years)
- Initiatives to support the self-reliance of PDs and DCs (e.g., financial support to enable PDs and DCs to conduct research with a certain level of discretion and responsibility, subject to the guidance of independent researchers)

* In this context, a postdoctoral fellow (PD) means in principle an early-career researcher who is not engaged in full-time research activities(*1), such as, an individual who is age 39 or under and has not acquired his/her Ph.D. degree, or who has acquired his/her Ph.D. degree within the past 8 years (including an individual having acquired a Ph.D. degree within 8 years excluding periods of maternity and/or childcare leave, etc. after acquiring Ph.D.).

*1. A researcher who is "engaged in full-time research activities" is a person holding a job position of an indefinite term appointment like a permanent position of tenure post, for example, a professor, associate professor, or assistant professor. It does not refer to his/her working arrangement such as full-time of part-time working hours.

C) Range of total budget: Up to 500 million yen

D) Research period: 7 years

*The research period may be extended to maximum 10 years subject to the results of the interim assessment.

E) Number of projects to be adopted: About 5 projects (highly selected)

*Since this research category aims to play a central role in joint international research and to help foster researchers, the funds will be granted to highly selected research projects. Proposals will be assessed, not only in terms of whether the research initiatives are significant as curiosity-driven research, but also in terms of their progressiveness, future potentials, and competitiveness, etc. as joint international research.

F) Review sections and review methods:

Review sections: Humanities and Social Sciences, Science and Engineering, or Biological Sciences

Review methods: Comprehensive review (Document review and panel review)

(See II. Call for Proposals 3. Review Panels and Other Matters for details on the review methods)

G) Submission of a Letter of Intent from Overseas Researchers:

Upon submitting a proposal, overseas researchers participating as joint researchers (capable of assuming responsibility in the research plan) will be required to complete a Letter of Intent. The Principal Investigator must provide overseas researchers with detailed information on the research plan, including the content of the research and specific roles that will be assigned to each researcher, and obtain their expressed consent on their responsibilities depending on the assigned roles, for example, to secure their own research funds. Each overseas researcher must prepare a Letter of Intent in a prescribed format, setting forth the confirmations and understandings with the Principal Investigator. The Letters will be reviewed as part of the Research Proposal Document.

H) Background on the establishment of this research category and other notes:

The objectives and basic ideas of the establishment of this research category can be found in the document titled "Improving and Enhancing Support for Joint International Research" (Reference Material 1 for the meeting of Subdivision on Grants-in-Aid for Research, Science Division, Council for Science and Technology, June 29, 2021). Read this document carefully in planning and preparing your research plan.

URL: https://www.mext.go.jp/content/20210706-gakjokik-000016622_01.pdf

<Notes>

• All participants, including research collaborators, in the project are encouraged to actively disseminate the research achievements globally through publication of coauthored international joint papers, and presentation in international conferences, etc.

• Funds will be allocated to the adopted research projects, taking into consideration to the maximum extent possible, the full amounts requested in the applications.

• This research category aims to foster excellent early-career researchers by way of supporting joint international research of top-class research teams. To this end, we plan to provide the following expenses in addition to the research grants set forth in section C above. Details will be notified separately to the PI of adopted research projects.

- Environmental expenses, to create a research environment that will enable young researchers to participate more easily in joint international research, will be paid to research groups to be supported under this research category. (Up to about 30 million yen per research project; to be allocated based on the situation, etc. of adoption.)

- Tenure start-up expenses, for Co-Is (PDs), Research Collaborators (PDs, DCs) hired by a research institution as researcher with tenure (including tenure-track position) during the research period of this research category. (3 million yen per researcher up to 21 million yen per research project: to be allocated based on the situation, etc. of employment.)

• For each adopted research project, an interim assessment will be conducted in the fifth year of the research period, and an ex-post assessment in the fiscal year following the final fiscal year of the research period The results of interim assessments are used to determine the extension of research periods as necessary, increase/decrease of the amounts of funding for the fiscal years after the assessment, and termination of the project, etc.

• To promote further internationalization of your affiliated research institutions, you are encouraged to actively contribute to your affiliated research institutions, by way of sharing your experiences or knowledge on international activities that you gain through the project to the extent that it does not hamper the implementation of the grant project.

2. Schedule from Application to Grant Delivery

(1) Procedures that need to be completed prior to the deadline for the submission of the application documents

Principal Investigator should sufficiently cooperate with the research institution, and should adequately respond to its requests.

The Date and Time	Procedures to be Performed by the Principal Investigator (See "III. Instructions for Prospective Applicants")	Procedures to be Performed by the Research Institution (See "IV. Instructions for Administrative Staff of Research Institution")
Start of Call for Proposals: Thursday, January 11, 2024 Deadline for submission: 4:30 pm on Wednesday, March 13 (to be strictly observed)	 1)Preparing the Application Investigators should access the Electronic Application System using the ID and the e-Rad Password which has been provided by the research institution and preparing the application. 2)Participation process of the Co- Investigator-to-be joining as a project member 3)Submission (Sending) of the Application Documents The Principal Investigator should submit (send) the application documents to the research institution he/she belongs to, by the deadline decided the research institution. 	 Procedures to be completed, if the need arises The Research Institution obtains an ID and Password for e-Rad from the person in charge of the operation of e-Rad (This does not apply if the research institution already obtained them.) *The issue of the ID and the Password takes about 2 weeks. Registration of the Researcher Information in e-Rad and other matters. Research institutions issue an ID and password to the Principal Investigators. (This does not apply if the researcher already obtained an ID and a password.) 4) The researchers who belong to the Institutions give a consent to become the Co-Investigator. Submission of the "Self-assessment. Checklist on the Implementation of the System", based on the "Guidelines on the Management and Audit of Public. Research Funds at Research Institutions". Submission of the "Checklist Pertaining to the Current Status" based on "Guidelines for Responding to Misconduct in Research" *If both Checklists have been submitted separately after April 2023, there is no need for resubmission. Deadline for submission: Wednesday, March 13 (to be strictly observed)

Notes:

1. After the Principal Investigator submits (Sending) the application to the research institution (mentioned in "Procedures to be Performed by the Principal Investigator" 3), the research institution should submit (Sending) to

the JSPS the application by the deadline for the submission (mentioned in "Procedures to be Performed by the Research Institution" 6).

Next, he or she should verify the section "III. Instructions for Prospective Applicants 3. Preparation of the KAKENHI Application Form", etc. as well as the procedures designated by the research institution, etc. (deadline for the submission of the application, etc., in the research institution) with the administrative staff in charge in the research institution.

- 2. When the researcher is applying for KAKENHI, he or she should register the researcher information beforehand in e-Rad. The research institution should perform the registration in e-Rad. Therefore, the researcher who is planning to apply should verify the state of the registration with the administrative staff in charge in the research institution.
- 3. The research institution should submit a "Self-assessment Checklist on the Implementation of the System", based on the "Guidelines on the Management and Audit of Public Research Funds at Research Institutions (Implementation Standards)" and a "Checklist Pertaining to the Current Status" based on "Guidelines for Responding to Misconduct in Research" (mentioned in "Procedures to be Performed by the Research Institution" 5). If it has not been submitted, no official grant decision will be made for the researchers belonging to the research institution in question.
- 4. Upon composing the project team with Co-Investigators, the Principal Investigator must complete the process of obtaining their consent to become Co-Investigators using the electronic application system ("Procedures to be Performed by the Principal Investigator" 2). Prospective Co-Investigators need to obtain consent, etc. from their affiliated research institutions to become Co-Investigator ("Procedures to be Performed by the Research Institution" 4). The Principal Investigator cannot submit (send) the Research Proposal Document to his/her research institutions to which the Co-Investigators-to-be belong give the consent to become a Co-Investigator in the research project, and so on. For this purpose, the Principal Investigator is asked to organize the project members immediately (see "III. Instructions for Prospective Applicants 3.Preparation of the KAKENHI Application Form").

(2) Schedule after the Submission of the Application Documents (plan)

The schedule below is as at the time of preparing this document.

There may be changes in the plan including the timing of the provisional grant decision. When the

changes occur, it will be announced on the JSPS website and through the research institutions.

International Leading Research			
March to November 2024	Review		
Mid May	Notification of preliminary screening results*1		
Mid September	Notification of selection results of projects to be interviewed		
Late November	Notification of review results*2, Provisional grant decision		
Late December	Formal application for grant delivery		
Around January 2025	Official grant decision, Disclosure of review results, Grant delivery		
Around February	Publication of review results for adopted research projects		

*1 For research proposals that were not adopted, review results will be notified after the review of preliminary screening is completed. Note that preliminary screening will not be conducted in the review section for which the number of applications is small.

*2 The notification of review results of International Leading Research will be given on the same day as the provisional grant decision

3 Review Panels and Other Matters

(1) Concerning KAKENHI Review Omitted

(2) Review Methods and Other Matters

The review for the KAKENHI is carried out by the Scientific Research Grant Committee of the JSPS, and is based on the Research Proposal Document. The review takes place behind closed doors. The submitted Research Proposal Document will not be returned to applicants.

As applicants provide unpublished research results and research ideas, and other information in their Research Proposal Documents on the premise that the review will be conducted privately, JSPS asks reviewers to maintain their confidentiality obligations, including the following.

- In order to protect the intellectual property of the applicants and ensure fairness of the peer review system, reviewers must not disclose the content of the Research Proposal Documents or any other information, in whatever form, that they learn in the course of the review to outside parties including their superiors, colleagues, or subordinates.
- Reviewers must not use any information that they learn in the course of the review for their own benefit.
- Reviewers have the obligation to keep the review materials under strict control.

The details on assessment rules ("Rules concerning the review and assessment for Grants-in-Aid for Scientific Research") such as assessment criteria can be found on the website for Grants-in-Aid for Scientific Research of the JSPS.

URL: https://www.jsps.go.jp/j-grantsinaid/01_seido/03_shinsa/index.html

The review of this research category will be conducted through "Document Review" and "Panel Review" (collectively, "Comprehensive Review") by three separate committees of the specialized fields: humanities and social sciences; science and engineering; and biological sciences ("Section-specific Committees"). Details are as follows:

- The Document Review will be performed by eight to fourteen reviewers in principle in each Section-specific Committee. They will review each research proposal based on the Research Proposal Document, as well as "Review Comments" and the results of "Overseas Reviews" prepared by researchers in the close field of specialization (about three reviewers from domestic research institutions preparing the review comments, and about three overseas reviewers belonging to overseas research institutions conducting overseas reviews). Proposals that receive extremely low marks in the overseas reviews will not be adopted.
- *As a general rule, the Document Review will be conducted after a Preliminary Screening (examination of certain parts of the Research Proposal Document by the Section-specific

Committees). Preliminary screening will not be held if the number of applications is limited.

• In the Panel Review, members of the Section-specific Committees will conduct discussions from a broad perspective on each research proposal and select research projects to be interviewed, then proceed with interview reviews.

*In the review process, reviewers can utilize, as necessary, the "researchmap" and the Grants-in-Aid for Scientific Research Database (KAKEN) (see <u>III. Instructions for Prospective Applicants</u> <u>Registration of the Researcher Information in Researchmap</u>).

(3) Notification of Review Results

1) JSPS will notify the review results of the preliminary screening to the PIs and their research institutions whose research proposals were not adopted via the electronic application system.

2) The results of selection of research projects to be interviewed will be notified to the PIs of the selected proposals and all research institutions.

3) JSPS will issue a notification to the PIs and research institutions via the electronic application system on whether the projects have been adopted or not based on the results of the review.

4) For research projects that were adopted, JSPS will provide the PIs with opinions expressed in the review results. JSPS will also disclose to the PIs whose proposals were not adopted, the approximate ranks within each section on the electronic application system. For the PIs whose proposals were selected for Panel Review but were not adopted, JSPS will also disclose, in addition to the above, opinions expressed in the review results.

5) The summary of opinions expressed in the review results of research projects that were adopted will be released on the Grants-in-Aid for Scientific Research Database (KAKEN) and other media.

III. Instructions for Prospective Applicants

1. Procedures to be Completed Prior to Application

The following three items must be completed prior to the submission of the research proposal:

- (1) Ascertainment of the Eligibility for KAKENHI Application
- (2) Confirmation of the Researcher Information Registered in the e-Rad System
- (3) Obtainment of an ID and a Password for the Electronic Application System

(1) Ascertainment of the Eligibility for KAKENHI Application

An applicant submitting a research proposal to Grant-in-Aid for Scientific Research (KAKINHI) as Principal Investigator (PI) must meet the requirements ① and ② stated below. A researcher carrying KAKENHI eligibility through more than one research institution can submit application(s) through either of the research institutions.

 At the time of the proposal submission, a researcher needs to have been approved by his/her research institution (*) as an eligible researcher who meets the Requirements 1),
 and 3) stated below, and have his/her Researcher Information properly registered in the e-Rad system as eligible for KAKENHI application(*2).

Requirements

- 1) The applicant must be an individual belonging to a research institution with job assignment including research activity within the said institution. (Whether the job is paid/unpaid, or full-time/part-time is irrelevant. It is not a prerequisite of eligibility that the research activity constitutes the main part of his/her job.)
- 2) The applicant must be actually engaged in research activity in his/her research institution. (Those who are only engaged in research assisting jobs are ineligible.)
- 3) The applicant must not be a graduate student or any other categories of student. (An individual who has a position in a research institution with a research activity as his/her main job (e.g., a university teaching staff, researcher belonging to a company, etc.), and holds a student status at the same time is eligible.)
- (*1) Here, the research institution must be such that designated according to the Article 2 of the "Rules for the Handling of Grants-in-Aid for Scientific Research" (issued by the MEXT).
- (*2) JSPS Fellows (DC) are deemed to have met the application requirements by being nominated as a JSPS Fellow (DC), notwithstanding the items a) through c) in (i) above. However, please check with your research organization regarding the requirements that it must meet.
- (Reference) Requirements that the research institution must meet: (see "IV. Instructions for Administrative Staff of Research Institution")

Requirements

- The research institution must authorize the research project for which KAKENHI is granted, as its proper activity.
- The research institution must take responsibility for management and accounting of the KAKENHI delivered to its researcher staffs.

⁽²⁾ The individual must not be categorized as ineligible for grant acquisition in the fiscal year covered by a call for proposals, as a penalty for his/her improper grant spending, fraudulent grant acquisition, or research misconduct.

<Important Point 1>

A researcher who is employed with a KAKENHI grant (hereinafter called "KAKENHI employee"), is generally bound by their employment contract to concentrate on the research work relevant to the KAKENHI project for which he/she is employed (hereafter called "employment-related work") specified in his/her employment contracts. Therefore, such a KAKENHI employee cannot apply for his/her own KAKENHI project which is to be conducted within the working hours of his/her employment.

However, provided that he/she can clearly demarcate his/her own research hours from the working hours of employment and intends to conduct his/her own research project during the former hours on his/her own initiative, the KAKENHI employee can submit his/her own KAKENHI proposal, on the condition that the following points are verified by his/her research institution. The KAKENHI employee can apply for KAKENHI as a PI or become a Co-I.

- The KAKENHI employee is granted on his/her employment contract, to conduct research on his/her own initiative, besides the employment-related work.
- The employment-related work and the work devoted to the research on his/her own initiative are clearly demarcated in regard to the working hours and the effort.
- The KAKENHI employee is able to secure enough research hours (besides the working hours for his/her employment-related work) to be allotted to his/her own KAKENHI project.

[Self-motivated research activities by a young researchers employed by KAKENHI funding]

A young researcher (*) who is employed with KAKENHI funds (KAKENHI employee) and meets the following conditions, may conduct his/her own research during the working hours assigned for the employment-related work, after going through the necessary procedures set by his/her research institution. He/She can apply for KAKENHI as a PI or become a Co-I.

- (1) A young researcher desires on his/her own will to conduct his/her own research.
- (2) The PI and Co-I (the employer of the young researcher) desires that the said research has a positive contribution to the promotion of the funded research project for which he/she is employed, and the research institution approves the said decision.
- (3) The PI and Co-I judges that the efforts to be spared by the young researcher to the said research within the extent that do not cause any hindrance to the execution of the funded research project

for which he/she is employed, and the research institution approves the judgement. (The upper limit of the efforts to be spared to the self-motivated research is 20 percent of the efforts to be put into the funded research project for which he/she is employed.)

* In this context, "young researcher" is defined as an individual who is age 39 or under, or less than 8 years after Ph.D. acquisition (including an individual who has acquired a Ph.D. within the past 8 years excluding periods of maternity and/or childcare leave taken after his/her Ph.D. acquisition) as of April 1 of each fiscal year (hereinafter referred to as a "KAKENHI-employee young researcher"), and whose job assignment includes research activities. When applying for Grants-in-Aid for Scientific Research (KAKINHI) he/she must meet the eligibility requirements for KAKENHI application.

Provided that the KAKENHI employer approves such self-motivated research activities in accordance with its funding resources (project) rules, if a researcher had originally met the eligibility requirements for KAKENHI's self-motivated research activities at the time of his/her application or participation, he/she may apply for KAKENHI and continue to engage in the adopted research project even if, during the project period, he/she no longer meets the requirements for a KAKENHI-employee young researcher. If there are changes to the funding resources (project) of the KAKENHI employer, the researcher must abide by the new funding resources (project) rules and reobtain the approval to conduct self-motivated research activities as a young researcher at the time the of the changing of funding resources.

(Reference) Views on the self-motivated research activities by the KAKENHI employee Attachment 1 to the "Changes in the FY2020 Call for Proposals for Grants-in-Aid for Scientific Research (KAKENHI) and Other Matters" (March 19, 2020) (Excerpt) URL:https://www.jsps.go.jp/j-grantsinaid/06_jsps_info/g_200316/index.html

Grants-in-Aid for Scientific Research (hereinafter referred to as "KAKENHI") is a funding scheme that is intended to promote development of scientific research (based on original ideas of researchers), encompassing basic to applied researches in all fields ranging from humanities and social sciences to natural sciences. Scientific research is a source of innovation *i.e.*, value creation based on new knowledge and has a vital role in nurturing human resources for leading a knowledge-based society broadly. It is particularly important to foster young scientists who are responsible for the next generation in order that the scientific research may sustainably exercise its role in the society.

It enables young researchers employed with a KAKENHI grant to conduct self-motivated research activities (including research activities with other research funds and activities helping research/management capacity building; hereinafter the same). Allowing them to conduct research activities in an independent and free research environment contributes not only to fostering young researchers, but also to the further development of the KAKENHI projects of their research institutions through research based on their freewheeling thinking and to the development of

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scientific research the entire country. Therefore, the concept of self-motivated research activities by young researchers is introduced in the KAKENHI scheme in this call for proposals. For details, refer to the following.

"Implementation Guidelines for Self-motivated Research Activities by Young Researchers Employed with Competitive Research Funds" (December 18, 2020, Agreement of the Liaison Meeting of Related Offices and Ministries on Competitive Research Funds) URL: https://www.mext.go.jp/amenu/shinkou/torikumi/1385716_00001.htm

<Important Point 2>

If a JSPS Research Fellow (SPD, PD, RPD, or CPD) meets the application requirements set forth above at the research institution which he/she registers as host research institution, he/she can also apply for the following research categories other than the "Grant-in-Aid for JSPS Fellows," but only from the registered host research institution. Unlike applying for KAKENHI as PI, he/she may apply for any of these research categories so long as he/she takes part in a KAKENHI proposal as Co-I. In making applications, he/she can apply even if the proposed research period outlasts the tenure of his/her JSPS fellowship.

(i) Publicly Offered Research of Transformative Research Areas (A)

(ii) Scientific Research (B/C)

(iii) Challenging Research (Exploratory)

(iv) Early-Career Scientists

(v) Fund for the Promotion of Joint International Research (Fostering Joint International Research)(Excluding CPD)

JSPS Fellows (DC) can apply for KAKENHI as Principal Investigators (PI) only for the Grant-in Aid for JSPS Fellows and Fostering Joint International Research. JSPS Fellows (DC) can also participate in research projects under every research category as Co-Is, but only from the host research institutions. As JSPS Fellows (DC) are supposed to seek the acquisition of Ph.D. as doctoral students, their host researchers or PIs of said KAKENHI research projects and their affiliated institutions should take sufficient care, so that JSPS Fellows (DC) will not be burdened with excessive responsibilities in performing these research projects. The Researcher Number is required if JSPS Fellows (DC) apply for other research categories that they can apply for and receive in parallel with Grant-in-Aid for JSPS Fellows as PIs or Co-Is.

Please note that students (see Note), such as graduate students and other students, as well as International Research Fellows cannot apply for KAKENHI grants even if they are tasked with the job of conducting research activities at their affiliated research institutions or other research institutions.

(Note) The term "student" as defined here does not include such an individual who has a position to conduct research in his/her research institution, as the main job (e.g., university teaching staff, researcher belonging to company, etc.), and holds a student status at the same time.

<Important Point 3>

The PIs and the Co-Is constitute the "members of funded projects," as stipulated in the "Act on Regulation of Execution of Budget Pertaining to Subsidies, etc." (Act no. 179 of 1955). In an event that they have committed improper grant spending, fraudulent grant acquisition, research misconduct, etc. the eligibility for KAKENHI application will be suspended for a period of time specified by the rule.

In the following cases, an individual registered in the e-Rad system as "eligible for KAKENHI application" may be subject to different treatment.

- •In case the research institution to which the individual belongs has made a judgement that it is not appropriate to let the individual conduct the said research activity as a part of his/her work within the institution, the institution may withhold the submission of his/her KAKENHI proposal, or may withhold the formal application for grant delivery of a provisionally adopted KAKENHI grant resulting in declination of the grant in question.
- In case a KAKENHI recipient has failed to submit the "Report on the Research Achievements" that is due after the completion of the research period of his/her KAKENHI without any good reason, no new KAKENHI grant(s) will be delivered to him/her, even if the grant(s) have been provisionally adopted. Moreover, if a KAKENHI recipient has failed to submit the "Report on the Research Achievements" by the due date, then the delivery of KAKENHI grant(s) for that fiscal year will be suspended.

(2) Confirmation of the Researcher Information Registered in the e-Rad System

A researcher who intends to submit a research document proposal as the PI to any of the KAKENHI categories for which "Call for Proposals" is announced, must carry the eligibility for KAKENHI application at the time of submission of the "Research Proposal Document" from his/her research institution to JSPS, and must be registered in the e-Rad system as such.

Therefore, <u>it is important for the researcher to ascertain proper registration of his/her Researcher</u> Information in the e-Rad system.

The registration in the e-Rad system is handled by <u>the research institution to which the researcher</u> <u>belongs.</u> The researcher should check with the administrative section of his/her institution about the registration procedures including the registration deadline within the institution, the method of confirmation of the current contents of registration, etc. If any of the entry items (such as "affiliation", "position etc.) of the researcher who has been already registered in the e-Rad system need updating, they should be duly completed.

(3) Obtainment of an ID and a Password for the Electronic Application System

When the research institution completes the e-Rad registration of a researcher, an ID and a password will be issued for the researcher. The researcher can access the KAKENHI Electronic Application System using the ID and password and prepare the Research Proposal Document.

The ID and password issued to a researcher remain valid after he/she moves to another research

institution. Every researcher should exercise due care in handling his/her ID and password so as to prevent their leakage and abuse.

2. Restrictions on Parallel Grant Application/Receipt

A researcher who intends to submit research proposal(s) to KAKENHI should be well acquainted with the "Restrictions on Parallel Grants Application/Receipt" before starting preparation of research proposal document(s) to check if applications to the intended categories are permitted.

(1) The Basic Policy for Restriction on Parallel Grant Application/Receipt

KAKENHI consists of different "Research Categories" and "Application Sections" set on the basis of budget scale, content, and other factors of the intended research, so as to meet various needs and research styles of the applicants.

On the other hand, in consideration of the necessity to support many excellent researchers with limited funding resources, and of the possible detrimental influence of overcrowding applications on the proper management of the review process, the "Rules for Restrictions on Parallel Submission of Research Proposals" have been set up, according to the following basic principles. Restrictions on parallel grant application/receipt do apply to the current round of call for proposals.

- ① Give considerations so as to ensure that as many excellent researchers as possible can be supported with limited funding resources.
- ② Give considerations so as to ensure that the number of applications does not become excessive in comparison with the review scheme of each research category.
- ③ The restrictions to be enforced are primarily directed to the applicant as Principal Investigator (PI) who bears all responsibility for the implementation of the research project(s). In some cases such as the research categories with large budget scale, however, the restrictions may be also extended to individuals as the Co-Investigator (Co-I).
- ④ The restriction on parallel submission of research proposals and the restriction on simultaneous receipt of grants are separately set on each of the KAKENHI categories, in accordance of the basic concepts outlined above and by taking into consideration the purpose, characteristics and other factors of each KAKENHI category

In case a particular research project falls under the concept of "unreasonable duplication" as put forward in the "Guidelines on the Proper Implementation of Competitive Funding" (see <u>I. Outline</u> of the Grants-in-Aid for Scientific Research-KAKENHI- 5. Guidelines on the Proper Implementation of Competitive Research Funding, etc.), it may be judged as such in the review process. Therefore, the applicant should take due precautions in preparing his/her research proposal document.

(2) Restrictions on Parallel Grant Application/Receipt

You can propose or receive the grant of no more than one project for International Leading

<u>Research at the same time, either as a Principal investigator or a Co-Investigator.</u> PI or Co-I of the prospected on-going project in FY2024 cannot submit a new research proposal in this research category.

(3) Important Notes

- 1) Even after a submitted proposal has been duly filed in the electronic application system, it may be eliminated from the subsequent review process by the rule of restriction on parallel grant application/receipt. The applicant should check against such possibility before submitting the research proposal document. Applicants should give careful attention on the point that if the researcher participates as a member of multiple projects and submits the research projects to JSPS, all the research projects applied will not be reviewed.
- 2) Even for the cases in which parallel grant application/receipt is not prohibited by the rules, the applicant should give a careful consideration so as not to fall in such situation that he/she cannot carry his/her responsibility as PI or Co-I, by committing him/herself to too many research projects. The applicant should be well acquainted with the content of "Elimination of Unreasonable Duplication and/or Excessive Concentration in the Grant Allocation" (see <u>I. Outline of the Grants-in-Aid for Scientific Research-KAKENHI- 5. "Guidelines on the Proper Implementation of Competitive Research Funding", etc.).</u>
- 3) There are no restrictions on parallel research grant application/receipt between KAKENHI and other competitive research funding schemes. Nevertheless, please be fully aware of the content of "Elimination of Unreasonable Duplication and/or Excessive Overconcentration in the Grant Allocation" (Refer to I. Outline of the Grants-in-Aid for Scientific Research-KAKENHI- 5. "Guidelines on the Proper Implementation of Competitive Research Funding", etc.)

3. Preparation of the KAKENHI Application Forms (Research Proposal Document)

Grants-in-Aid for Scientific Research is a competitive research funds intended to provide financial support for creative and pioneering research conducted by individual researchers. Therefore, <u>the contents of the Research Proposal Document must be original planned by the applicant.</u>

In preparing Research Proposal Document, plagiarism and/or misappropriation of the research contents of others are strictly impermissible. Applicants must comply with research ethics.

In addition, applicants should note that the entire Research Proposal Document, including the title of the research project will be reviewed, and will be publicized widely in the Grants-in-Aid for Scientific Research (KAKENHI) Database (KAKEN) if the research proposal is adopted. Therefore, make sure to select a title that effectively reflects the content of the research project.

For submission of a research proposal, the applicant (PI) must complete the relevant Research Proposal Document. The Research Proposal Document consists of two parts: "Items to be entered in the Website" and "Forms to be uploaded".

The PI (applicant) should complete the Research Proposal Document (PDF file) by entering the "Items to be entered in the Website" and by uploading the "Forms to be uploaded" to the Electronic Application System. Then he/she should submit the Research Proposal Document to the administrative section of his/her research institution, by the deadline set by the institution.

In addition, applicant must also submit the Letters of Intent from overseas researchers as part of the Research Proposal Document.

Instructions on the preparation and submission of the KAKENHI Research Proposal Document are detailed below.

(1) Preparation of Research Proposal Document

In order to apply, <u>the applicant must first access the Electronic Application System using</u> <u>his/her e-Rad ID and Password, and prepare the Research Proposal Document on the System.</u>

On the Research Proposal Document

The KAKENHI Research Proposal Document consists of the following two parts:

Items to be entered in the Website:

Items to be directly entered by the PI (applicant) on the website of the KAKENHI Electronic Application System

Forms to be uploaded:

Items pertaining to the content of the research plan. Various forms can be downloaded from the JSPS website:

Upload the completed forms to the Electronic Application System to complete the research proposal document in PDF format. (Paper-based applications will not be accepted.) URL : https://www.jsps.go.jp/j-grantsinaid/35_kokusai/05_sendou/koubo.html

Research	Research Proposal Document				
category Application Section	Items to be entered in the Website (First half)	Forms to be uploaded (First half)	Items to be entered in the Website (Second half)	Forms to be uploaded (Second half)	Items to be entered in the Website (Not be shown in the PDF file)
International Leading Research	To be entered in the electronic application system (Title of research project, Fundamental data on the research project such as total budget, Data on the project members, etc.)	S-64 (1) S-64 (2) S-64 (3) S-64 (4)	To be entered in the electronic application system (Research expenditure and description of each expenditure categories)	S-64 (L)	To be entered in the electronic application system (Status of application and acquisition of research grants, etc.)

About the Letter of Intent (LOI)

Form S-64 (L) which needs to be attached as part of the Research Proposal Document: The Letter of Intent is to be collected from an overseas joint researcher in time for the application to confirm that applicant jointly conducts the research project with the overseas researcher. Applicant should ask the overseas joint researcher (who is capable of assuming responsibility in the research plan; in case a researcher group, the leading researcher of the group) to complete and sign the letter. When you receive it over an electronic file, please save the information on the related correspondences including email messages. (Note that applicants are requested to upload the letter of intent only.) When you receive it on paper, please be sure to convert the form to PDF before uploading it to the electronic application system.

If the research project is to be conducted with the engagement of several overseas joint researchers, select one or more (up to three) leading researchers for submission of the Letters of Intent, and upload them using this form.

Uploaded Letter of Intent will be used in the review process as a part of the Research Proposal Document. Please inform the researchers submitting the Letters of Intent that (as set forth below in (2) Electronic Submission of the Research Proposal Document, 3) their names and other personal information of overseas joint researchers contained in the Letters of Intent and Research Proposal Document will be used for administrative tasks of KAKENHI grants (which may include providing personal information to external contractor(s) in charge of the electronic processing and management of KAKENHI data).

(2) Electronic Submission of the Research Proposal Document

 An applicant should prepare his/her Research Proposal Document (PDF files) by entering the "Items to be entered in the Website" and by uploading the separately prepared "Forms to be uploaded" to the Electronic Application System, following the instructions in the "Procedures for Preparing and Entering a Research Proposal Document (Items to be entered in the Website)" and "Procedures for Preparing and Entering a Research Proposal Document (Forms to be uploaded)". Both procedures can be downloaded at

URL: https://www.jsps.go.jp/j-grantsinaid/35_kokusai/05_sendou/koubo.html

2) The Research Proposal Documents are collected and submitted to JSPS by the research institution to which the PIs (applicants) belong. Therefore, the applying PI should submit his/her Research Proposal Document to the administrative section of his/her research institution by the deadline set by the institution. (It is not allowed to submit the Research Proposal Document directly to JSPS.) Before submission, the applying PI should carefully check the contents of the Research Proposal Document (PDF files) he/she prepared, and subsequently proceed to the "Check Completed and Submission" stage of the submission process. (This amounts to submitting the Research Proposal Document (PDF files) to the administrative section of his/her research institution.)

No further corrections or modifications to the Research Proposal Document (PDF file) approved by his/her institution are possible after the deadline for submission to JSPS.

(See <u>"IV. Instructions for Administrative Staff of Research Institution 4. Submission and Other</u> Matters of the Research Proposal Document (Preparing the Research Proposal Document).")

3) The personal information contained in the Research Proposal Document and any personal information registered in Electronic Application System will be used for purposes such as the elimination of unreasonable duplication and/or excessive concentration in the allocation of competitive research funds, the appropriate funding of KAKENHI grants, and to conduct questionnaires on scientific technology policies including KAKENHI grants (this includes providing the data to external contractor(s) in charge of electronic processing and management of the KAKENHI data). Any such information will also be provided to the e-Rad system. (The information registered in the e-Rad system is utilized for proper assessment of research and development by national funding, development of effective and efficient comprehensive strategy, planning and development of resource allocation policy, etc. Therefore, the information will be supplied to the Cabinet Office through the e-Rad system. The applicant may be requested to cooperate in verification of the information and other related works.)

The information on the adopted KAKENHI projects (the title of research project, the name of PI and his/her affiliated research institution, the grant to be delivered, research period, etc.) is categorized as "information planned to be made public," as laid down in Article 5, paragraph 1, item 1 of the "Act on Access to Information Held by Incorporated Administrative Agencies" (Act No. 140 of 2001). The information will be made public through press release materials, the Grants-in-Aid for Scientific Research Database (KAKEN) of the National Institute of Informatics, and other means.

The researchers and their affiliated research institutions are requested to carry out the application procedures (including 2) above) with full understanding of the information handling (utilization, provision and disclosure) stated above.

(3) Important Checkpoints of the Research Proposal Document

In preparing a Research Proposal Document, the applicant should pay attention to the following points among others, so as to avoid "outright rejection by incompleteness of the research proposal document".

1) Qualification as a KAKENHI project

The following kinds of research plans fall outside the scope of funding target:

- A) A research plan which merely aims at purchasing ready-made research equipment.
- B) A research plan whose purpose is to build a large-size research facility or equipment which is more appropriate to be funded by other resources.
- C) A research plan whose purpose lies at developing and selling goods and/or services (including market research associated with such as them).
- D) An entrusted research conducted as regular business.
- E) A research plan with a yearly budget less than 100,000 yen.

2) Eligibility of the Project Members

The PI should organize a research team with an appropriate combination of Co-Investigator(s) (Co-I), and Research Collaborator (s). When organizing a research team, the PI should ensure that the team has an appropriate system toward the achievement of research objectives, for example by giving due consideration to diversity. <u>The KAKENHI eligibility (stated in III. Instructions for Prospective Applicants 1. Procedures to be Completed Prior to Application) of PI and Co-I(s) should be verified by their respective research institute by the time of proposal submission. On the other hand, registration to the e-Rad system is not a requirement to be a Research Collaborators.</u>

A) Principal Investigator (PI) (Applicant)

i. Principal Investigator is the main recipient of the grant who bears full responsibility for the implementation of the research project (including summarization of the research achievements). An individual who is anticipated to become unable to carry through the PI's responsibility over the entire research period due to, for example, loss of the KAKENHI eligibility caused by PI's own accord, should refrain from becoming a PI. (See note below.) (Note)

The Principal Investigator is a researcher who plays the central role in the implementation of the research plan and thus bears a heavy responsibility. An individual who is anticipated to lose his/her eligibility for KAKENHI application during the research period due to his/her own accord so that is anticipated to be unable to carry through the responsibility, should refrain from becoming a Principal Investigator. Substitutions of the PI of an on-going KAKENHI project are not permitted. As an exception, for the "International Leading Research", replacements of PI may be accepted by going through required procedures.

ii. When organizing project members, Principal Investigator must obtain a consent to become a Co-Investigator from the researcher via electric application system in advance.

iii. The PI must be registered in the e-Rad system as "Eligible for KAKENHI Application". It is also required that he/she is *not* designated as "ineligible for grant receipt" in the fiscal year covered by a call for proposals (suspension of eligibility), as a penalty for such misconducts as improper grant spending, fraudulent grant acquisition or research misconduct associated with KAKENHI or any other competitive research funds.

B) Co-Investigator (Co-I)

i. The Co-Investigator is a recipient of the grant who, in cooperation with the PI, bears responsibility for the implementation of the research project in accordance with the clear share of his/her roles. The Co-I must be a member of the project who receives a share of the grant based on the contents of the share as a recipient of the grant. (This rule applies even when the Co-I belongs to the same institution as the PI.)

An individual who is anticipated to become unable to carry through the Co-I's responsibility over the entire research period due to, for example, the loss of the KAKENHI eligibility caused by Co-I's own accord, should refrain from becoming a Co-I.

ii. The Co-I must be registered in the e-Rad system as being "Eligible for KAKENHI Application". It is also required that he/she is *not* designated as being "ineligible for grant receipt" in the fiscal year covered by a call for proposals (a suspension of eligibility), as a penalty for such misconducts as an improper grant spending, a fraudulent grant acquisition or a research misconduct associated with the KAKENHI or any other competitive research funds.

<About the Process of Participation of Co-Investigator in Project Members>

A consent process to become a Co-Investigator is conducted via the electronic application system if the applicant adds a Co-Investigator to project members. Following processes for both Principal Investigator and Co-Investigators are necessary in the application process.

[Actions to be taken by the Principal Investigator]

• Principal Investigator must enter the information on the researcher whom he/she wants to add to the project members in the "Project Members List" column on the "Application Information Input" screen, request the researcher to become a Co-Investigator, and obtain a consent from the Co-Investigator-to-be by the time of submitting (sending) the Research Proposal Document to his/her research institution,

[Actions to be taken by the researcher who is requested to become a Co-Investigator]

• If the researcher is requested to become a Co-Investigator by the Principal Investigator via the electronic application system, the researcher must select "Consent" or "Dissent" after confirming the contents to be consented.

Procedures to be Performed by the Principal Investigator	Procedures to be Performed by the Co-Investigator-to-be	Procedures to be Performed by th Research Institutions to which Co Investigator-to-be belongs
 Request to become a Co- Investigator 	 Q Give a consent to become a Co- Investigator 	 Give a consent to become a Co- Investigator as a standpoint of the research institutions
The Principal Investigator requests to the researcher who is to be requested to become a Co-Investigator to participate in the project members as a Co- Investigator via the electronic application system	The Co-Investigator-to-be is requested to participate in the project members as a Co-Investigator from the Principal Investigator via the electronic application system and then the Co- Investigator-to-be selects a consent (or a dissent).	The information consented by the Co- Investigator-to-be is shown via the electronic application system and then the research institutions also conduct th process such as giving consents to him/her.

• The organization of the project members should be completed through all necessary procedures mentioned above to be carried out with the approximate target of **two weeks prior to the deadline for the submission of the application documents**. (All application procedures are workable on the system after two weeks prior to the deadline for the submission of the application documents. To submit (send) application documents to the research institution to which the Principal Investigator belongs, it is necessary to obtain consents from all the Co-Investigators-to-be.

- * Please refer to the KAKENHI (Grants-in-Aid for Scientific Research) Electronic Application System Operation Manual (URL: <u>https://www-shinsei.jsps.go.jp/kaken/topkakenhi/shinsei_ka.html</u>) for the detailed information such as operating environments, operating methods, and so on.
- * After the researcher has given a consent to become a Co-Investigator, the information on the Co-Investigator-to-be will be shown to the research institution to which he/she belongs via the electronic application system, and then it will be necessary to obtain a consent, etc. from the research institution as well.

* Since the Principal Investigator cannot submit (send) the Research Proposal Document to his/her research institution until the research institution to which the Co-Investigator-to-be belongs gives the consent, etc., be sure to finish the process in time for the deadline of the submission.

C) Research Collaborator

i. Research Collaborator is an individual who cooperates in the implementation of a research project other than the PI and the Co-I(s).

ii. Registration as "Eligible for KAKENHI application" in the e-Rad system is *not* a requirement for becoming a Research Collaborator.

For example, the following people can also participate in the research project as a Research Collaborator: a postdoctoral researcher, a graduate student, a research assistant (RA), a JSPS Research Fellows (SPD, PD, RPD, CPD or DC) who are not registered as eligible for KAKENHI application in their host research institution, <u>a researcher belonging to an overseas research</u>

<u>institution</u>, a researcher belonging to a corporation not designated as a research institution according to Article 2 of the Rules for the Handling of Grants-in-Aid for Scientific Research, and an individual offering research support such as technician and intellectual property specialist.

[Participation of Early-Career Researchers as Project Members in International Leading Research] In view of the aims of this research category to achieve research results of higher quality and to contribute to fostering researchers who can play leading roles in the international research community, we seek for research plans that are to be carried out by research groups that are composed of multiple researchers (Principal Investigator (PI) and Co-Investigators (Co-Is)), and a group of postdoctoral fellows (PDs) and graduate students (doctoral course students, DCs) as Research Collaborators. The number of PDs and DCs should be approximately three times that of the PI and Co-Is. The number of Research Collaborators (PDs and DCs) on the team may temporarily divert from the original plan, provided that measures are to be taken so as not to impact the performance of the research project.

It is mandatory to include the following initiatives in the research plan, therefore, applicants should give due attention to the feasibility of the project in view of the situation, etc. of the overseas research institutions accepting early-career researchers when formulating the research plan.

- Plans of dispatching PDs and DCs to overseas research institutions and of implementing international exchanges (mainly for 2-3 years);

- Initiatives to support the self-reliance of PDs and DCs (e.g., financial support to enable PDs and DCs to conduct research with a certain level of discretion and responsibility, subject to the guidance of independent researchers).

3) Requirements for the Appropriation of Research Expenditure

A) Expenditures that can be covered by direct expense

Expenditures necessary for the implementation of the research plan (including those necessary for summarization of the research achievements)

* If any of the expenditure categories (equipment costs, travel expenses, or personnel cost/honoraria) exceeds 90% of the total yearly expenditure in any FY of the research period, or if the expenditure in category Consumables or Miscellaneous constitutes a significant portion of the total expenditure, the necessity of that spending should be clarified in Research Proposal Document.

[Direct Expense of Competitive Research Funds to Cover the Costs of Assignments Other Than Research]

The cost of "buyout" (*i.e.*, the cost for hiring someone taking over a part of the duties other than research (*) of the Principal Investigator or Co-Investigator(s)) can be covered by the direct expense so that they can secure ample amount of time for research projects (the buyout system).

* The kinds of duties that can be covered by the buyout system are those authorized as proper jobs of the researcher at his/her research institution, excluding (i) research activities, and (ii) administrative work for institutional management. They include educational and related activities, e.g., educational activities (teaching and preparation for teaching, supervising students) and social engagement activities (medical practices, outreach activities). Activities associated with business profit are excluded.

Starting from the FY2021 Call for Proposals, the buyout system is applicable in the research categories listed below. A KAKENHI applicant who wish to use the buyout system should do so according to the buyout scheme agreed upon between him/her and his/her research institution.

When an applicant wishes to use the buyout system, enter the cost of the buyout in the "Miscellaneous expense" column, and enter the word "buyout" in the "Item" column of the Research Proposal Document form. (Please refer to the "Application prs for

Grants-in-Aid for Scientific Research—KAKENHI—" (Forms/Procedures for Preparing and Entering a Research Proposal Document).

[Research categories subject to the buyout system]

Specially Promoted Research, Transformative Research Areas (excluding "Platforms for Advanced Technologies and Research Resources"), Scientific Research on Innovative Areas (Research in a Proposed Research Area) (excluding "Platforms for Advanced Technologies and Research Resources"), Scientific Research, Challenging Research (including "Challenging Exploratory Research"), Early Career Scientists (including "Young Scientists (A/B)"), Research Activity Start-up, International Leading Research, International Collaborative Research (including the Fostering Joint International Research (B) before name change), Home-Returning Researcher Development Research (limited to those who belongs to the domestic research institutions), Special Purposes.

[Research categories *not* subject to the buyout system]

Encouragement of Scientists, Publication of Scientific Research Results, JSPS Fellows, Transformative Research Areas (Platforms for Advanced Technologies and Research Resources), Scientific Research on Innovative Areas (Research in a Proposed Research Area) (Platforms for Advanced Technologies and Research Resources), Fostering Joint International Research (including the Joint International Research(A) before name change). As for the research category of Fostering Joint International Research (including the Joint International Research(A) before name change) it is possible to budget the cost for hiring replacements.

As for the details of the expenses covered by the buyout system and matters to be done by the research institution refer to the following.

"Amendment Enabling Direct Expense of Competitive Research Funds to Cover the Costs of Duties Other Than Research (Introduction of Buyout System)" (Oct 9, 2020, Agreement of the Liaison Meeting of Related Offices and Ministries on Competitive Research Funds)

URL: https://www.mext.go.jp/a_menu/shinkou/torikumi/1385716_00003.htm

The objective of the buyout system is to increase the number of hours the PI (or Co-I) can devote to the funded project on the basis of his/her own needs and request. Accordingly, items such as the actual presence of the PI's (or Co-I's) needs and request, and the resulting expansion of research time devoted to the funded project (increased number of hours for research) may be subject to later inspection in relation to the grant spending. In the event that the buyout expenditure is found to be used improperly (e.g., the increase in hours devoted to the funded project is not verified), an order to return the delivered grant may be issued. Therefore, the research institution should ensure the appropriate implementation of the buyout system.

B) Expenditures that cannot be covered by KAKENHI:

A. Costs associated with buildings and other facilities (excluding expenditure for installations necessary for installation of research equipment purchased by the KAKENHI direct expense)B. Expenditures for measures to deal with accidents or disasters that occurred during the implementation of funded project

C. Personnel cost/Honoraria for the PI or Co-I(s)

D. Other expenditures that are apt to be covered by indirect expense*

* Indirect expense which amounts to 30% of the direct expense, is intended for use by the research institution in covering expenditures needed by the research institution for the management and other things associated with the implementation of the research project. Indirect expense will be placed for all the research categories of this Call for Proposals. Applicant does not need to state the indirect expense in his/her Research Proposal Document.

C) Expenditure Category

Under this research category, the research expenditure is roughly divided into the following expenditure categories depending on the intended use.

Research Funding (overseas): Expenditures that are mainly made abroad, such as research grants, etc. to be used by Japanese researchers to conduct research while staying at overseas research institutions (excluding expenditures that fall under Human Resources Development Costs).

- Research Funding (domestic): Expenditures that are mainly made domestically, such as research grants, etc. to be used by Japanese researchers to conduct research in Japan (excluding expenditures that fall under Human Resources Development Costs).
- Expenses for Human Resources Development: Expenses for research activities and training to support early-career researchers to become selfreliant, such as overseas travel expenses for earlycareer researchers, hiring expenses, research costs that they can use autonomously, etc.

Please describe the details and the necessity or estimation basis of each expense for each expenditure categories in the Research Proposal Document.

4) No mistakes in the format, etc. of the Research Proposal

1) No garbled characters and so on.

The electronic form of the Research Proposal Document (PDF files) submitted through the system will be used as they appear in the review. It is the PI's responsibility to check whether the contents of the Research Proposal Document converted to the PDF file are complete (missing characters, charts, garbled characters, etc.) before submitting. Research Proposal Documents using colored figures and text will be used as they appear in the review.

2) Verification of the Application Forms

It should be verified whether the application format is in conformity with the prescribed format. As for the forms to be uploaded, in particular, verify not only the total number of pages but also the number of pages instructed for each column is met. For example, neither following case 1 in which the total number of pages is different nor following case 2 in which the total number of pages is same but the number of pages instructed for each column are different are inconformity with prescribed format.

	Number of page(s) of Form S-64(2)			
	"Framework and Significance of International Joint Research" Column	"Contents of Research Plan" Column	"Contents of the Plan for Fostering Early-career Researchers" Column	Total Number of Pages
Correct Number of Pages	5 or less	5 or less	4 or less	14 or less
Incorrect Number Case 1	5	6	4	15
Incorrect Number Case 2	6	4	4	14

4. Completion of Research Ethics Education Course or Other etc.

Principal Investigators and Co-Investigators taking part in a research funded by the KAKENHI, are requested to have completed properly the following procedures including research ethics, by the time they submit the formal application for grant delivery of a newly adopted research project in the FY2024 Grants-in-Aid for Scientific Research, and <u>upon the formal application for a grant delivery, it shall be confirmed through the electronic application system whether they will have taken the research ethics education coursework, etc.</u>

If a PI or Co-I completed the research ethics related procedures in the past, or has moved from the research institute at which he/she completed the procedure, he/she should check with the

administrative section of his/her current institution for the validity of the procedure he/she conducted in the past.

[Actions to be taken by the Principal Investigator]

- The PI must either read through and learn the teaching materials by oneself concerning the research ethics education coursework such as "For the Sound Development of Science The Attitude of a Conscientious Scientist" published by the Editorial Committee of the JSPS named "For the Sound Development of Science, the "e-Learning Course on Research Ethics [eL CoRE] or "APRIN e-learning program (eAPRIN)", or attend a lecture on research ethics conducted by research institutes based on "Guidelines for Responding to Misconduct in Research (Adopted by the MEXT on August 26, 2014), by the time of the formal application for grant delivery.
- The PI must understand thoroughly and exercise the proper research practices in conducting their research, from amongst the contents of both the statement "Code of Conduct for Scientists Revised Version-" by the Science Council of Japan and the booklet "For the Sound Development of Science -The Attitude of a Conscientious Scientist-" issued by the JSPS, by the time of the formal application for grant delivery.
- From each Co-Investigator-to-be, the PI must
- ① obtain a consent of participation in the research project as a Co-I through the electronic application system and also a consent expressing "the completion of a seminar attendance or other kinds of coursework relevant to research ethics by the time of the formal application for the grant delivery of the research project in question", by the time of submitting (sending) the Research Proposal Document to the research institution which the PI belongs to, and;
- ② ascertain that the Co-I has actually completed the coursework such as an attendance at the lecture on research ethics by the time of the formal application for the grant delivery.

[Actions to be taken by the Co-Investigator]

- The Co-I must provide the PI with both a consent of the participation in the research project as a Co-Investigator via the electronic application system and a consent expressing "the completion of a seminar attendance or other kinds of coursework relevant to research ethics by the time of the formal application for the grant delivery of the research project in question".
- The Co-I must either read through and learn the teaching materials by oneself concerning the research ethics education coursework such as "For the Sound Development of Science The Attitude of a Conscientious Scientist" published by the Editorial Committee of the JSPS named "For the Sound Development of Science", the "e-Learning Course on Research Ethics [eL CoRE] or "APRIN e-learning program (eAPRIN)", or attend a lecture on research ethics conducted by research institutes based on "Guidelines for Responding to Misconduct in Research" (Adopted by the MEXT on August 26, 2014), and report the PI to the effect by the time of the formal application for the grant delivery by the PI.
- The Co-I must understand thoroughly and exercise the proper research practices in conducting their research, from amongst the contents of both the statement "Code of Conduct for Scientists -

Revised Version-" by the Science Council of Japan and the booklet "For the Sound Development of Science -The Attitude of a Conscientious Scientist-" issued by the JSPS, and report the PI to the effect that he/she has done, by the time of the formal application for the grant delivery by the PI.

5. Registration of the Researcher Information in Researchmap

The "researchmap (<u>https://researchmap.jp/</u>)" is the Japan's largest researcher information database as a general guide to Japanese researchers. The information on the research achievements registered in the Researchmap is ready to be openly available over the Internet and the database itself is linked to the e-Rad, other many university faculty databases and so on, and also the Japanese Government as a whole is going to further utilize the Researchmap.

Furthermore, since the posted information in the Researchmap and/or the database of the Grantsin-Aid for Scientific Research (KAKEN) is to be handled as a reference according to the necessity in the review of the KAKENHI, the registration of the researcher information into the Researchmap is encouraged. In addition, when doing so, make sure to register the "Researcher Number" because the posted information is to be searched with the "Researcher Number" when referring to the posted information in the Researchmap at the review.

< Inquiries >

Service Support Center (in charge of the "researchmap")

Department for Information Infrastructure

Japan Science and Technology Agency

Web inquiry form: https://researchmap.jp/public/inquiry/

6. Cooperation to Review

The Grants-in-Aid for Scientific Research-KAKENHI- adopts a peer-review process in which the researchers selected from their own community engaged themselves in the assessment and reviewing of each research proposals on the basis of its scientific merit. The KAKENHI review is conducted thanks to the participation of more than 8,000 researchers as reviewers. The peer review forms the basis of the autonomy of academic community and plays an important role in ensuring quality of scientific research and its improvement. The review of applications is carried out with the constructive and mutually critical spirit of scientists and based on the purely academic value. It is no exaggeration to say that the KAKENHI review system is indispensable in supporting Japan's scientific research into the future among other research funds.

The Grants-in-Aid for Scientific Research (KAKENHI) program is supported by researchers who have responsibilities not only to conduct the funded research projects as applicants and grant recipients but also as a reviewers. It is important for researchers to find out excellent research proposals as reviewers in order to support the scientific research as is the case of putting out excellent research results with KAKENHI funds. It is expected that the above-stated understanding is share in the academic community. Furthermore, participating in the review process has an aspect of fostering researchers

through enhancing their capability to conduct the objective and academic assessments based on the various views of fellow reviewers leading up to broaden their horizons.

In order to support the peer-review system of KAKENHI by the whole body of researchers by appropriately sharing the burden of proposal review without putting an extra load on some researchers. The researchers' positive participation in the review process is well appreciated when they are requested to become the KAKENHI reviewer by JSPS or MEXT in the future. JSPS has registered the Principal Investigators' information including their names and affiliated research institutions in the Database of Review Committee Candidate (148,000 entries as of FY2022) and has utilized it so as to select the fair and excellent reviewers. In order to keep the information in this Database updated at all times, JSPS makes a request every year to update the registered information through your affiliated research institutions. Kindly cooperate in updating the information in accordance with the Spending Rules for researchers (supplementary conditions or funding conditions).

IV. Instructions for Administrative Staff of Research Institution

1. Sharing the Purpose and Aim of the KAKENHI System

The KAKENHI provides a financial support for the creative and pioneering researches based on the original ideas of researchers.

Review of the submitted research proposals is conducted by the peer review process, in which researchers selected from their own community engage themselves in the assessment and reviewing of each research proposals on the basis of its scientific merit. The KAKENHI review process is based on the participation of more than 8,000 reviewers. (Please refer to "II. Call for Proposals.<u>4</u>. Review Panels and Other Matters.<u>(1)</u> Concerning KAKENHI Review")

While the KAKENHI review process has been continually improved by, for instance, the introduction of new review methods from the FY2018 grant, the growing needs of KAKENHI have resulted in the number of new applications exceeding 90,000 in recent years. The workload on the researchers who are cooperating as reviewers is getting heavier along with the increase in the number of applications. Pressing concern is that if the burden on the reviewers keeps increasing to be excessive, it may seriously affect the reviewers' own research and educational activities, and may also result in deterioration of the quality of the review process. One of the possible factors for the recent increase in the application number may be attributed to the fact that some research institutions seem to set the KAKENHI application as one of their organizational activity indicators. Application for the KAKENHI grant per se should be made on the basis of the initiative of the researchers. Therefore, such action on the part of research institutions as to set quota to the constituent researchers is undesirable.

All research institutions are requested to share and disseminate within themselves the primary purpose and aim of the KAKENHI system afresh.

2. Issues to Be Completed Beforehand by the "Research Institution"

(1) Requirements as a "Research Institution" and Procedures for Designation and Change

In order to apply for the KAKENHI, a researcher needs to belong to a "Research Institution." Concerning the "Research Institution" cited here, the following four types of "Research Institution" have been designated as eligible in Article 2 of the Rules for the Handling of Grants-in-Aid for Scientific Research announced by the Ministry of Education, Culture, Sports, Science, and Technology (MEXT).

- 1) Universities and inter-university research institutes
- 2) MEXT facilities and other institutions engaged in scientific research
- 3) Technical colleges
- 4) Institutions designated by MEXT (see note below)

Note:

In order to become a Research Institution, institutions not falling under 1) to 3) first need to receive the designation by MEXT. Therefore, the institutions should consult with the Scientific Research

Aid Division of the Research Promotion Bureau of MEXT.

Moreover, if changes in one of the following items have been scheduled, institutions that have received the designation by MEXT and already have been recognized as a research institution should promptly report the content of these changes to the Scientific Research Aid Division of the Research Promotion Bureau of MEXT.

- (i) Abolition or dissolution of the research institution
- (ii) Name and address of the research institution, and name of the representative
- (iii) Matters concerning laws, regulations, endowment acts, and other rules that prescribe the purpose of establishment, the business content, and the internal organization of the research institution

Moreover, researchers who belong to such institutions should consider that, in order to conduct research activities using the KAKENHI, **the institutions should meet the requirements mentioned below.**

< Requirements >

(i) The research institution must authorize the research project for which the KAKENHI is granted, as its proper activity.

(ii) The research institution must take responsibility for management and accounting of the KAKENHI delivered to its researcher(s).

(2) Ascertainment of the Eligibility to Apply of the Affiliated Researcher

A research institution must ensure that the applicant meets, in addition to meeting the eligibility to apply for Grant-in-Aid for Research Activity Start-up at the time of submitting their application, either of the eligibility criteria under the Application Requirements for Grant-in-Aid for Research Activity Start-up. (See "<u>III. Instructions for Prospective Applicants 1. Procedures to be Completed Prior to Application. (1) Ascertainment of the Eligibility for KAKENHI Application")</u>

(3) Registration of the Researcher Information and Confirmation of an ID and a Password (e-Rad System)

In order to apply for KAKENHI, researchers should perform the procedures, by accessing the "Electronic Application System", he/she should retain the ID and a Password for e-Rad.

For this reason, the research institution should verify whether researchers who intend to apply have an ID and a Password, or not.

In the case where there is a researcher who intends to apply and who has neither ID nor Password, the research institution should provide him/her with an ID and a password in accordance with the following procedure. URL : <u>https://www.e-rad.go.jp/manual/for_organ.html</u>

i) In order to provide the researcher with an ID and a Password, the research institution needs to have an ID and a Password for use of the research institution. If the research institution has not yet obtained them, it should first of all download a registration form from the e-Rad Portal site, conduct a registration application in writing. It takes approximately two weeks for the "ID and Password for use of the research institution" to arrive after registration application the "Application for Use of the Electronic Application System".

Notes:

- *1: Please refer to "How to Apply for the Registration on Research Institutions." (URL: <u>https://www.e-rad.go.jp/organ/entry.html</u>) on the e-Rad website for information on downloading an application form for the ID and password for e-Rad.
- *2: Research institutions that already obtained an ID and a password for e-Rad issued do not need to obtain it again.
- *3: It is not necessary to obtain an ID and a password for e-Rad for each research category of the KAKENHI.
- ii) After obtaining an ID and a Password for use of the research institution, the administrative staff in the research institution should provide an ID and a password to the researcher who is planning to apply as a Principal Investigator. The ID and password for each researcher is issued through registration of the researcher information in e-Rad. Please refer to the "Manual for Research Institutions" (for Research Institution Office Representatives and for Research Institution Office Workers: the section of "Procedures for Researchers") for information on the concrete way how to provide them.

Notes:

- *1: When providing the login ID and password, research institutions must make it known to researchers that they must strictly protect the login ID and password in order to prevent them from being disclosed to others.
- *2: Once the ID and the password for the researcher have been provided, they can be used, even if the research institution changes.
- *3: Please be sure to obtain and use the latest version of the Operation Manual.
- iii) Please register (update) the researchers who are applying as a Principal Investigator or a Co-Investigator as "eligible to apply for KAKENHI" in e-Rad. If there are any corrections to be made to the registration details ("Affiliation", "Position", etc.) of those who have already been registered, please update them with the correct information.

The first date that a researcher can access the electronic application system is based on the date that he/she obtains an e-Rad ID and password. For details, see "The Accessible Date to the Electronic Application System" referring to supplement.

However, since Research Proposal Document will not be accepted after the deadline for submission of Research Proposal Document, applicants should complete the registration (update) of the researcher information early, in order to have sufficient time to submit them. In order not to negatively affect the compilation of the applications within the research institution, when completing the applications, the research institution should perform the various procedures (including dissemination within the research institution), positioning this specific procedure as one of the important procedures to be

(4) Submission of the "Self-Assessment Checklist on the Improvement of the System" Based on the "Guidelines on the Management and Audit of Public Research Funds at Research Institutions (Implementation Standards)"

When implementing the adopted research projects with KAKENHI grant the research institutions must comply with the content of the "Guidelines on the Management and Audit of Public Research Funds at Research Institutions (Implementation Standards)" (Adopted by the Minister of MEXT. Revised on February 1, 2021.), they must set up a system of the management and audit for implementing the public research funds and report the state of implementation and other matters by submitting a "Self-Assessment Checklist on the Improvement of the System based on the Guidelines on the Management and Audit of Public Research Funds at Research Institutions (Implementation Standards)" (hereinafter referred to as "Self-Assessment Checklist on the Improvement of the Improvement of the System").

Therefore, "those research institutions which Principal Investigators and Co-Investigators applying for KAKENHI in FY2024 belong to" and "those research institutions which Principal Investigators and Co-Investigators continuing research projects using KAKENHI are scheduled to belong to in FY2024" <u>must submit in accordance with the procedure and forms posted on the MEXT the "Self-Assessment Checklist on the Improvement of the System" to the Office of Competitive Research Funding Administration, Research Environment Division, Science and Technology Policy Bureau of the MEXT by March 13, 2024 (Wednesday) via e-Rad.</u>

For details, refer to the website (URL: https://www.mext.go.jp/a_menu/kansa/houkoku/1324571.htm) If the "Self-Assessment Checklist on the Improvement of the System" has already been submitted in April 2023 or later, it is not necessary to submit it again.

Researchers affiliated to a research institution which has not turned in the said checklist cannot receive the official grant decision.

Note: When using e-Rad, an ID and a password for the research institution are necessary.

< Inquiries >

(Concerning forms and submission of the "Self-Assessment Checklist on the Improvement of the System")

Office of Competitive Research Funding Administration, Research Environment Division,

Science and Technology Policy Bureau, MEXT

Telephone: 03-5253-4111 (ext. 3866, 3827)

E-mail: kenkyuhi@mext.go.jp

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

(Concerning the use of the e-Rad system)

Helpdesk of the Cross-ministerial Research and Development Management System (e-Rad) of MEXT

Telephone: 0570-057-060 (Navi Dial)

Office hours: 9:00-18:00(Except on Saturdays, Sundays, National Holidays and the New Year Holidays (from December 29 until January 3))

URL: <u>https://www.e-rad.go.jp/organ/entry.html</u>

*Time period when e-Rad is available for use: 00:00 - 24:00 (in operation 24 hours a day, 365 days a year. However, even during the above-mentioned time period, it may happen that the operation of e-Rad is disrupted or suspended, when maintenance and inspection is being carried out. If the operation is scheduled to be disrupted or suspended, this will be announced beforehand on the portal site.)

(5) Submission of the "Checklist Pertaining to the Current Status" Based on the "Guidelines for Responding to Research Misconduct"

When implementing the research projects with KAKENHI grant the research institutions must comply with the content of the "Guidelines for Responding to Research Misconduct" (Adopted by the Minister of MEXT on 26 August 2014) (hereinafter referred to as "Guidelines on Research Misconduct") and submit a "Checklist Pertaining to the Current Status based on the Guidelines for Responding to Research Misconduct" (hereinafter referred to as "Checklist on the Research Misconduct").

Therefore "those research institutions which the Principal Investigators and Co-investigators applying for KAKENHI in FY2024 belong to" and "those research institutions which Principal Investigators and Co-Investigators continuing research projects using KAKENHI are scheduled to belong to in FY2024" <u>must submit in accordance with the procedure and forms posted on MEXT the "Checklist on the Research Misconduct" to the Office for Research Integrity Promotion, Research Environment Division, Science and Technology Policy Bureau of MEXT by March 13, 2024 (Wednesday) via e-Rad. For details, refer to the website</u>

(URL: https://www.mext.go.jp/a_menu/jinzai/fusei/1420301_00001.html)

If the "Checklist on the Research Misconduct" has already been submitted in April 2023 or later it is not necessary to submit it again.

Researchers affiliated to a research institution which has not turned in the said checklist cannot receive the official grant decision.

*<u>Please note that while the "Checklist on the Research Misconduct" is the same in using e-Rad for</u> submission with the "Self-Assessment Checklist on the Improvement of the System," the submission <u>destination is different. Both checklists must be submitted.</u>

Note: When using e-Rad, an ID and a password for the research institution are necessary.

< Inquiries >

(Concerning the format and submission of "Checklist on the Research Misconduct")

* Differs from the contact information for the "Self-Assessment Checklist on the Improvement of the System".

Office for Research Integrity Promotion, Research Environment Division, Science and Technology Policy Bureau, MEXT

Telephone: 03-6734-3874

E-mail: jinken@mext.go.jp URL: https://www.mext.go.jp/a_menu/jinzai/fusei/index.htm

(Concerning the use of the e-Rad system)

Helpdesk of the Cross-ministerial Research and Development Management System (e-Rad) of MEXT

Telephone: 0570-057-060 (Navi Dial)

Office hours: 9:00-18:00(Except on Saturdays, Sundays, National Holidays and the New Year

Holidays (from December 29 until January 3))

URL: https://www.e-rad.go.jp/organ/entry.html

*Time period when e-Rad is available for use: 00:00 - 24:00 (in operation 24 hours a day, 365 days a year. Even during the above-mentioned time period, the operation of e-Rad may be disrupted or suspended, when maintenance and inspection is being carried out. If the operation is scheduled to be disrupted or suspended, this will be announced beforehand on the portal site.)

(6) Implementation of a Research Ethics Education Coursework Based on the "Guidelines on Research Misconduct," etc.

Principal Investigators and Co-Investigators must fulfill the obligations described below prior to submitting the formal application for grant delivery if you are starting a new research project, and prior to submitting the formal application for grant delivery or request for payment if you are taking part in an ongoing research project that is scheduled to continue into FY2024.

- Either to read through and learn the teaching materials by oneself concerning the research ethics education coursework such as "For the Sound Development of Science -The Attitude of a Conscientious Scientist-" (JSPS Editing Committee of "For the Sound Development of Science"), the "e-Learning Course on Research Ethics (eL CoRE)," the "APRIN e-learning program (eAPRIN)," etc., or to attend a lecture on research ethics conducted by research institutions based on the "Guidelines on Research Misconduct."
- To understand thoroughly and to exercise the proper research practices in conducting their research, from amongst the contents of both the Statement "Code of Conduct for Scientists -Revised Version -" by the Science Council of Japan and the booklet "For the Sound Development of Science - The Attitude of a Conscientious Scientist -" issued by JSPS.

In the case that the PI intends to add a new Co-I to the continued project in FY2024, the PI has to obtain a consent to become a Co-I from the Co-I-to-be via the electronic application system in advance. In this case, the Co-I-to-be has to complete the above prior to the formal application for grant delivery and report to the PI. (Or, in the case the official grant decision has been already made, he/she has to do the above by the time the "application for approval of change of the Co-Investigator" is submitted by the PI to JSPS.)

To that end, each research institution is requested to disseminate broadly what the researchers should consider, in conducting of their researches as well as carrying out an ethics education in research training session based on the Guidelines on Research Misconduct.

(7) On the Submission of the Report on the Research Achievements

The research institution to which researchers belong has to collect and submit the report on the research achievements. If the research institution has failed, without justifiable reason, to submit the report on the research achievements at the end of the research period, it may happen that it is treated as indicated below. Therefore, it is the responsibility of the representative of the research institution to ensure that the report on the research achievements is submitted without fail.

• No KAKENHI will be delivered to researchers who do not submit the report on the research achievements at the end of the research period, without good reason. Moreover, it may happen that the official grant decision to the researcher is cancelled, that an order to return the grant is issued, or that the information such as the name of the research institute the said researcher belongs to is disclosed in public.

Furthermore, if researchers have failed to submit the scheduled report on the research achievements without justifiable reason, then execution of other KAKENHI implemented in the same fiscal year will be suspended.

(8) Obtaining Sufficient Knowledge about the Contents of the Application Procedures

The research institution should beforehand disseminate the contents of the Application Procedures to all the researchers belonging to it. JSPS would especially like to request the dispersion of information on the items listed in the Application Procedures and the submission deadlines of Research Proposal Document, in order to avoid potential misunderstandings.

(9) Ensuring Research Integrity Among Research Institutions

In order to promote the creation of science, technology, and innovation in Japan, we must continue to strengthen overseas joint research with various partners based on the principle of open science. At the same time, in light of newly emerging risks as a consequence of the globalization and openness of research activities in the recent years, there is a growing concern that the values of openness and transparency which constitute the basis of the research environment will be lost and the danger of researchers unknowingly being trapped in conflict of interest or conflict of responsibilities. In such climate, it is vital for our country to build a globally reliable research environment to protect the values that constitute the basis of research environment while encouraging necessary global collaboration and international exchanges.

Therefore, it is vital for universities and research institutions, etc. to observe the "Policy on Measures to Ensure Research Integrity Against New Risks as a Consequence of the Globalization and Openness of Research Activities (April 27, 2021, Decision of Council for Science, Technology and Innovation)" and formulate relevant rules and systems to manage conflict of interests and conflict of responsibilities, etc., and to autonomously secure the soundness and fairness of research (research integrity) among researchers and at universities and research institutions, etc.

From such perspective, MEXT and JSPS check whether reasonable efforts can be secured while eliminating unreasonable duplication and excessive concentration of competitive research funds and ensuring transparency of research activities. In addition, MEXT and JSPS may make inquiries to affiliated institutions, as necessary, on the status of formulation of rules and status of identification and management of information as affiliated institution.

O "Policy on Measures to Ensure Research Integrity Against New Risks as a Consequence of the Globalization and Openness of Research Activities (April 27, 2021, Decision of Council for Science, Technology and Innovation)"

URL: https://www8.cao.go.jp/cstp/tougosenryaku/integrity_housin.pdf

3. Issues that Need to Be Verified when Compiling the Application Forms (Preparing the Research Proposal Document)

The contents of the Research Proposal Document should be verified in each research institution, and all the Research Proposal Documents should be submitted to JSPS together. When doing so, special attention should be paid to the following points.

(1) Ascertainment of the Eligibility for KAKENHI Application

It should be verified whether the Principal Investigator and the Co-Investigator(s) listed in the Research Proposal Document are researchers who meet the requirements that are stipulated in the Application Procedures (see "III. Instructions for Prospective Applicants 1.Procedures to Be Completed Prior to Application"), and also whether the researcher information is registered in eRad as "Eligible to Apply for KAKENHI."

Moreover, it should be verified certainly that they must not be categorized as ineligible for grant acquisition in the fiscal year covered by a call for proposals, in KAKENHI and other competitive research funds, as a penalty for their improper grant spending, fraudulent grant acquisition, or research misconduct.

(2) Confirmation of the Researcher Information Registered in the e-Rad System

Regarding the registration (update) of the researcher information necessary when applying, the administrative staff in the research institution to which the researcher belongs should perform the procedures using e-Rad.

Moreover, even though applicant has already been included in the researcher list of the research institution, if there is any item such as the department placed, the position, or others that needs to be corrected, the applicant's information on the researcher list should be corrected.

(3) Verification with the Principal Investigator

The research institution should verify whether the Principal Investigator and the Co-Investigator(s) who have been listed in the Research Proposal Document have completed the Research Proposal Document, after confirming the description in the column "<u>II. Call for Proposals</u>" in this Application Procedures for Grants-in-Aid for Scientific Research.

(4) The Process of the Participation of Co-Investigator in Project Members

A research institution should conduct the process such as giving a consent with regard to the researcher who belongs to it becoming a Co-Investigator via the electronic application system. When the information on the Co-Investigator-to-be is presented to the research institution to which the Co-Investigator-to-be belongs via the electronic application system after the researcher who was requested to become a Co-Investigator from the Principal Investigator gave a consent to do so via the electronic application system, then the research institution need to give a consent to do so, etc. as well.

Since the Principal Investigator cannot submit (send) the Research Proposal Document to his/her research institution until the Co-Investigators-to-be's research institution gives a consent to do so, etc., the research institution should proceed with the consent process in time for the deadline of the submission.

* Please refer to the KAKENHI Electronic Application System Operation Manual

(URL: https://www-shinsei.jsps.go.jp/kaken/topkakenhi/shinsei_ka.html)

for the detailed information such as operating environment, operating method, and so on.

(5) Verification of the Application Forms

It should be verified whether the application format is in conformity with the prescribed format. As for the forms to be uploaded, in particular, verify not only the total number of pages but also the number of pages instructed for each column is met. (see <u>"III. Instructions for Prospective</u> <u>Applicants 3.Preparation of the KAKENHI Application Form (Research Proposal Document), etc. ")</u>

4. Submission and Other Matters of the Research Proposal Document (Preparing the Research Proposal Document)

- (1) The research institution should access the "Electronic Application System," using the ID and the password for e-Rad, obtain the information of the Research Proposal Document (PDF files) that the Principal Investigator(s) prepared, and verify their contents and other matters.
- (2) The research institution should perform the "approval/submission (transmission)" process on all the Research Proposal Documents (PDF files) that has no mistakes in their contents. Only those Research Proposal Documents whose application status changed to "Being accepted by JSPS" by the submission deadline will have been correctly submitted to JSPS.
- (3) After the Research Proposal Documents (PDF files) are submitted (sent) to JSPS, applicants can still draw back their Research Proposal Documents for necessary corrections and resubmission prior to the submission deadline. However, <u>DO NOT draw back the Research Proposal Documents</u> <u>on the date of the deadline.</u> The System will be very busy and you may not be able to resubmit the application in time.

(4) Research Proposal Documents (PDF files) that have been approved and submitted (sent) by the research institution cannot be corrected or otherwise revised after the submission deadline.

[The deadline for the submission of the Research Proposal Document is]

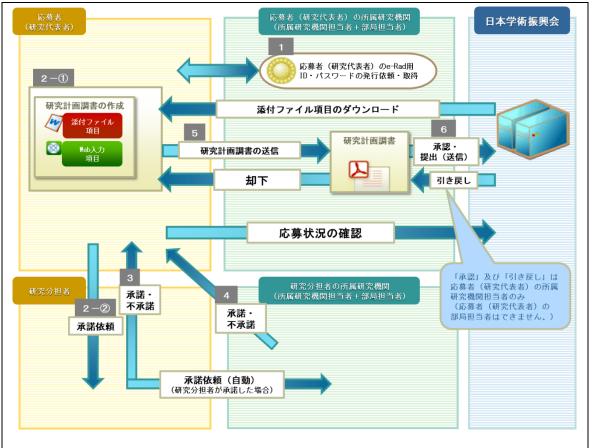
March 13, 2024 (Wednesday), 4:30 pm (This deadline should be strictly observed.)

- Note 1: Research Proposal Document that is submitted (sent) after this deadline will not be accepted for any reason. Therefore, the documents should be submitted (sent) well in advance.
- Note 2: It is not possible to draw back Research Proposal Documents or to re-submit them after the above deadline.

(5) The ID and the password which are used in the e-Rad are designed to verify the individual.

Therefore, the handling and administration of them should be done carefully when carrying out the application procedures. Moreover, an outline of the procedures for electronic application can be found below. However, for details on the operating environment, procedure, etc. of the "Electronic Application System," please refer to the "Operation Manual" at the website below. URL: https://www-shinsei.jsps.go.jp/kaken/topkakenhi/shinsei_ka.html

Outline of the Electronic Application Procedures



[The administrative staff in the research institution to which the applicant (Principal Investigator) belongs]

1 The administrative staff in the research institution to which the applicant belongs issues the ID and the password to the applicant.

[The applicant (Principal Investigator)]

- 2 -① The applicant accesses the "Electronic Application System," using the ID and the password he/she received, and prepares the Research Proposal Document (PDF file), by entering the "items to be entered" in the website and by uploading the "forms to be uploaded" as an attached file.
- 2 -2 The applicant enters the researcher(s) whom the applicant wants to add to the project members and requests him/her to give a consent to become a Co-Investigator in the "Project Members List" column of the "Application Information Input" screen in the electronic application system.

[The researcher who is requested to become a Co-Investigator]

3 The researcher is requested to participate in the project as a Co-Investigator applicant (Principal Investigator) via the electronic application system and then he/she selects "Consent" or "Dissent" after confirming the contents of the consent.

[The administrative staff in the research institution to which the Co-Investigator-to-be belongs]

4 When the Co-Investigator-to-be gave a consent in the electronic application system, the research institution to which the Co-Investigator-to-be belongs selects "Consent/Confirm" or "Dissent."

[The applicant (Principal Investigator)]

5 If there are no mistakes in the Research Proposal Document (PDF file) and Letter of Intent the applicant prepared, he/she submits the Research Proposal Document (PDF file) to the research institution to which he/she belongs, by performing the "completed and submission" process. Note that the applicant cannot submit (send) the Research Proposal Document until he/she obtains the consents from all the Co-Investigators and Co-Investigators' research institutions listed in the Project Members List of the Research Proposal Document.

[The administrative staff in the research institution to which the applicant (Principal Investigator) belongs]

By approving the Research Proposal Document (PDF file), etc. the administrative staff in the research institution to which the applicant belongs submits (sends) it to JSPS. Moreover, if the Research Proposal Document (PDF file), etc. that the applicant submitted is not approved due to mistakes or other reasons, it will be rejected and the applicant will be requested to make corrections. In the case of withdrawing or making corrections to the Research Proposal Document (PDF file) submitted (sent) to JSPS due to mistakes or other reasons, the administrative staff draws back the document, rejects it as necessary, requests the applicant to make corrections, and resubmit (re-send) the document to JSPS.

V. Other Relevant Issues

1. Support through Platforms for Advanced Technologies and Research Resources

In order to respond effectively to the diverse needs of researchers of KAKENHI research projects, the Grant-in-Aid for Transformative Research Areas (A) - Platforms for Advanced Technologies and Research Resources forms a resource and technical support platform for research (hereinafter referred to as "Platform") under the close cooperation of relevant institutes with inter-university research institutes and Joint Usage/Research Centers, or International Joint Usage / Research Center as core institutes. Together with providing technical support towards individual research projects and providing advanced problem solving methods to researchers, it provides an integral promotion of cooperation between researchers, interdisciplinary integration, and human resources development. Applications for technical support, etc. are open for each of the Platforms below where it concerns research projects carried out through KAKENHI. Researchers desiring technical support, etc. from each of the Platforms are requested to check their respective websites, etc. and actively apply.

- * "Technical Support, etc." points to the sharing of equipment with researchers from a wide range of research fields, technical support and the collecting, conservation, and providing of resources (documents, data, experiment samples, specimen, etc.), and support for conservation techniques, etc.
 - "Advanced Technology Support Platform Program" has scientific value and an advanced nature through the combination of multiple facilities and equipment, and provides shared use of equipment and technical support to researchers in a wide variety of research areas.

"Research Platform Resource Support Program" collects, conserves, and supplies the resources that are the basis of research (documents, data, experiment samples, specimen, etc.) and also conducts support for conservation techniques, etc.

Area	Platform Name	Core Institution	Support Function
orm Program	Platform of Advanced Bioimaging Support (*)	National Institute for Physiological Sciences National Institute for Basic Biology	 Advanced technical support and user training for: Light microscopy Electron microscopy Magnetic resonance imaging Imaging analysis
Support Platform Program	Platform of Advanced Animal Model Support (*)	The Institute of Medical Science The University of Tokyo	Support for constructing animal models, Support for pathological analysis, Support for physiological analysis, and Support for molecular profiling
Advanced Technology	Platform for Advanced Genome Science (*)	National Institute of Genetics	Advanced genome analysis (de novo genome sequencing; re-sequencing for genome variation detection; analysis of transcriptome, epigenome and metagenome; ultra-high sensitivity analysis for single cells, single molecules, etc.; big-data analysis and advanced bioinformatics; by using of the latest facilities and technologies)

Area	Platform Name	Core Institution	Support Function
Research Platform Resource	Platform of Supporting Cohort Study and Biospecimen Analysis (*)	The Institute of Medical Science, The University of Tokyo	Support for cohort study using bioresources, Support for maintaining and utilizing human brain resources, and Support using biospecimen
	Supply Platform of Short-lived Radioisotopes for Fundamental Research	Research Center for Nuclear Physics, Osaka University	Supply short-lived radioisotopes produced by accelerators for fundamental research in various scientific fields.

Also, Committee on Promoting Collaboration in Life Sciences that functions as a general information point and coordinator across the four Platforms marked with an asterisk (*) above is set up. (Core Institution: The Institute of Medical Science, The University of Tokyo)

Each Platform's website can be found in the links on the site below: URL : <u>https://www.mext.go.jp/a_menu/shinkou/hojyo/mext_01901.html</u>

2. Promotion of the Shared Use of Research Equipment

In "Reform of Competitive Research Funds: Towards a Sustained Output of Research Achievements (Interim Summary)" (June 24, 2015, Competitive Research Fund Reform Review meeting) it was decided that, when the original research objectives were fully achieved, versatile and large equipment should, in principle, be shared.

The government also addresses the need to promote the implementation and common use of research facilities and equipment, to establish a framework for the introduction, renewal, and utilization of organizational research facilities (core facilities), and to formulate and publicize policies for the internal and external sharing of research facilities and equipment in the Comprehensive Package to Strengthen Research Capacity and Support Young Researchers (January 23, 2020, Council for Science, Technology, and Innovation) and the Sixth Science, Technology, and Innovation Basic Plan (Cabinet Decision on March 26, 2021).

With this in mind, when purchasing equipment with competitive research funds, please actively work on the use of equipment purchased with other research funds, and the purchase and shared use of equipment from several research funds where it concerns especially large and versatile equipment. Please also make ensure that sharing is possible within the rules of the said competitive research funds, and no obstacle is made to the execution of the research project.

- "Reform of Competitive Research Funds: Towards a Sustained Output of Research Achievements (Interim Report)" (June 24, 2015, Competitive Research Fund Reform Review meeting)
 URL: <u>https://www.mext.go.jp/b_menu/shingi/chousa/shinkou/039/gaiyou/1359306.htm</u>
- "The Sixth Science, Technology, and Innovation Basic Plan (Cabinet Decision on March 26, 2021)"
 URL : https://www8.cao.go.jp/cstp/kihonkeikaku/6honbun.pdf
 (June 24, 2015, Competitive Research Fund Reform Review meeting)
 URL: https://www.mext.go.jp/b_menu/shingi/chousa/shinkou/039/gaiyou/1359306.htm

 Unified Rules for Administrative Procedures, Etc. Pertaining to Competitive Research Funds (Agreement of the Liaison Meeting of Related Offices and Ministries on Competitive Research Funds, March 5, 2021; revised May 24,2023)
 URL: https://www8.cao.go.jp/cstp/compefund/toitsu rule r50524.pdf

3. Promotion of the 'Dialogue on Science and Technology with Citizens' (A Basic Approach Policy)

In the "Promotion of the 'Dialogue on Science and Technology with Citizens' (A Basic Course of Action)" (Adopted by the Minister of State for Science and Technology Policy and the Executive Members of the Council for Science and Technology Policy on June 19, 2010) which was compiled in June 2010, the activity in which researchers explain the content and achievements of their research activities to society and citizens in an easy-to-understand form is placed in the above-mentioned "Dialogue on Science and Technology with Citizens." Researchers who have received an allotment of public research funds amounting more than 30 million yen per year per case are requested to positively work on the "Dialogue on Science and Technology with Citizens." Universities and other research institutions are also requested to make positive efforts in order for researchers who have received public research funds to ensure the proper implementation of the "Dialogue on Science and Technology with Citizens." Technology with Citizens," for example, by setting up support systems.

For KAKENHI, there is the question "Are you positively trying to publicize and disseminate the research content and research achievements?" especially in the research progress assessment of Specially Promoted Research, for which researchers receive a relatively high amount of research funds, and the interim/ex-post assessment of Scientific Research on Innovative Areas (Research in a Proposed Research Area). Therefore, based on the above-mentioned basic policy, researchers should disseminate the achievements of research funded with KAKENHI to society and citizens in an even more positive way.

4. Cooperation with the National Bioscience Database Center

The National Bioscience Database Center (URL: <u>https://biosciencedbc.jp/</u>) has been established in the Japan Science and Technology Agency (JST, a national research and development agency), in order to promote the integrated use of databases in the area of life science that have been created by various research institutions and other institutions.

This Center spurs the active participation of related institutions, and based on four pillars, namely (1) the planning of strategies, (2) creation and operation of portal websites, (3) research on and development of core technology for the integration of databases and (4) the promotion of the integration of biotechnology-related databases, it is promoting projects aiming at the integration of databases in the area of life science. In this way, through wide sharing and utilization of the research achievements in the area of life science produced in Japan in the researcher community, the Center aims at invigorating overall research in the area of life science, including research and development connected to basic research and industrial applied research.

JSPS would like to request researchers to cooperate by providing to the Center copies of raw data related to achievements published in research papers and other output in the area of life science, or copies of created open databases.

Moreover, the copies provided will be able to be utilized on a non-exclusive basis as reproductions, alterations, or in other necessary forms. JSPS would like researchers to understand in advance that, in response to the requests of the institutions that received copies, it would also like request researchers to cooperate by providing all the information necessary for utilizing the copies.

Furthermore, the National Bioscience Database Center has developed guidelines for data on humans, in order to promote the sharing and use of data related to research in the area of life science, with due considerations to the protection of personal information.

ONBDC Human Data Sharing Guidelines

URL: https://humandbs.biosciencedbc.jp/guidelines/

5. Inter-University Bio-Backup Project

The purpose of the Inter-University Bio-Backup Project (IBBP) is to "back up" biological genetic resources, which are indispensable research resources in various research areas, and to avoid damage or loss of biological genetic resources due to unforeseen accidents, disasters, etc. The project newly commenced from 2012.

In the National Institute for Basic Biology of the Inter-University Research Institute Corporation National Institutes of Natural Sciences, which is the core of this project, the Inter-University Bio-Backup Project for Basic Biology (IBBP Center, URL: <u>http://www.nibb.ac.jp/ibbp/</u>) has been established as a backup center for biological genetic resources. It is equipped with the newest equipment necessary for the backup of biological genetic resources.

Any researcher who belongs to a university or a research institution may apply for storage. Biological genetic resources that can be stored in the IBBP Center are samples that can be proliferated (amplified) or cryopreserved (for vegetable seeds, the refrigeration or deep-freezing preservation condition needs to be definite), and being not pathogenic is also a condition. Since backup is provided free of charge, researchers should make use of the IBBP Center.

6. National BioResource Project

The National BioResource Project (NBRP) strategically collects and preserves important bioresources that are the basic and foundation of life science research at the core bases of this project and provides them to universities and research institutes, thereby contributing to the development of life science research in Japan. In the future, in order to contribute to the development of life science research in Japan, it is necessary to continually collect useful bioresources.

For that matter, please deposit (*) available bioresources among bioresources developed by Grantsin-Aid for Scientific Research (limited to the bioresource targeted for NBRP). Please cooperate with the NBRP collecting activities.

It is recommended to utilize the resources already collected in NBRP from the viewpoint such as efficient implementation of research.

(*) Deposit: This is a procedure to approve the use (preservation/provision) in this project without transferring the various rights related to the resource. By specifying specific conditions in the deposit agreement, you can add usage conditions such as restrictions on usage and quotation of articles to users.

OList of NBRP core bases representative agencies

URL: https://nbrp.jp/resource/

7 . Security Export Control Policy (Coping with Technology Leakage Overseas)

In implementing various research activities including research projects funded with KAKENHI, research institutions are asked to take systematic measures to ensure that the research achievements which have potential risks of being diverted to military use are not transferred to WMD developers, terrorist organizations, or people carrying out other dubious activities.

In Japan, export controls (*) are carried out under the Foreign Exchange and Foreign Trade Act (Act No. 228 of 1949) (hereinafter referred to as "Foreign Exchange Act"). Therefore, in principle, in order to export (provide) cargo and technology regulated by the Foreign Exchange Act, it is necessary to obtain permission of the Minister of Economy, Trade and Industry. It is reminded that KAKENHI grantees must observe the Foreign Exchange Act as well as other laws, guidelines and circular notices issued by the government.

(*) Japan's Security Export Control System established on the basis of international agreements mainly consists of (i) "List rules" which require permission of the Minister of Economy, Trade and Industry in principle when exporting cargo or providing technology that carry specifications and/or functions higher than certain levels, such as carbon fiber and numerically controlled machine tool etc., and (ii) "Catch-all regulation" which requires permission of the Minister of Economy, Trade and Industry when exporting cargo or providing technology that are not subject to regulation under the List rules but do fall under certain regulatory requirements (application requirements, consumer requirements and/or informed requirements).

Please note in particular that not only export of cargo but also provision of technology will be subject to the regulation by the Foreign Exchange Act. When providing a "List rules" technology to non-residents or providing it in a foreign country, prior permission for provision is required. "Provision of technology" includes not only providing technical information such as design drawings, specifications, manuals, samples, and prototypes via storage media such as paper, mail, CD, USB memory, but also providing work knowledge and technical assistance at seminars through technical instruction, skill training, etc. Researchers should be aware that there may be case in which technologies subject to regulation by the Foreign Exchange Act are involved when mentoring foreign students and/or joint research activities with oversea groups. Please also bear in mind that the provision of technologies, etc. acquired in KAKENHI-funded projects or the provision of technologies, etc. already in possession with the use of KAKENHI may also be subject to restrictions.

Details of the <u>s</u>ecurity trade control are published on the websites including the Ministry of Economy, Trade and Industry website.

OMinistry of Economy, Trade and Industry: Security Trade Control (General) <u>https://www.meti.go.jp/policy/anpo/</u>

OMinistry of Economy, Trade and Industry: "Handbook on Security Trade Control" https://www.meti.go.jp/policy/anpo/seminer/shiryo/handbook.pdf

Ocenter for Information on Security Trade Controls https://www.cistec.or.jp/index.html

O"Guidance for the Control of Sensitive Technologies for Security Export for Academic and Research Institutions 3rd Edition" <u>https://www.meti.go.jp/policy/anpo/law_document/tutatu/t07sonota/t07sonota_jishukanri03.pdf</u>

8. Strict Implementation of United Nations Security Council Resolution 2321

In the face of the nuclear test by Democratic People's Republic of Korea (DPRK) in September 2016 and repeated launches of ballistic missiles, the United Nations Security Council adopted the United Nations Security Council Resolution 2321 on November 30, 2016 (ET, New York) deciding to impose additional and stronger sanctions on DPRK. In this regard, MEXT issued a letter of request entitled, "Strict Implementation of United Nations Security Council Resolution 2321 (Request)" (28 受文科際第 98 号) to relevant organizations as of February 17, 2017.

"Scientific and technical cooperation" as set forth in Paragraph 11 in the main text of the Resolution not only includes technologies regulated by the Foreign Exchange and Foreign Trade Act of Japan, but all cooperative activities except for medical exchanges. Therefore, it is critical that research institutions exercise strict implementation of the Resolution when conducting various research activities including said sponsored research.

The UNSC Resolution 2321 can be found at:

MOFA: United Nations Security Council Resolution 2321, Japanese translation (MOFA Notice No. 463 (issued on December 9, 2016)

https://www.mofa.go.jp/mofaj/files/000211409.pdf

9. Improvement of Treatment of Students in the Doctoral Course

"The Sixth Science, Technology, and Innovation Basic Plan" (Cabinet Decision on March 26, 2021) addresses the need to enhance financial support for doctoral students in particular, in order to attract outstanding talents from home and abroad, and calls for research institutions to provide greater employment opportunities for doctoral students as research assistants (RAs) and to improve their treatment. To this end, the Basic Plan, for example, sets a numerical target to increase the number of students in doctoral programs receiving the amount equivalent to living expenses to about three times the current number (which is equivalent to about 30% of all doctoral students receiving the amount equivalent to living expenses).

Furthermore, the "Guideline on Recruiting and Fostering Postdoctoral Fellows, Etc. (December 3, 2020, Committee on Human Resources, the Council for Science and Technology)" states that doctoral students "are students, but at the same time, also researchers in a certain way, and therefore it is the key responsibility of universities that foster researchers to provide the environment for research activities and to ensure proper treatment...It is of particular importance to treat them based on appropriate assessment of their contribution, by establishing compensations that meet the nature and content of their jobs and paying hourly wages according to the actual work hours under the proper labor management...When submitting applications to competitive research funds and other grants, universities and institutions must record the expenditures necessary to employ RAs as direct expense, and revise the school rules as necessary to make sure that the RAs are paid proper compensations."

Based on the above, when employing a doctoral student as RA, etc. for a KAKENHI project, set the hourly wage according to the nature and content of his/her job based on the standard of each research institution and pay the wage according to the actual work hours under the proper labor management.

Furthermore, when employing a doctoral student as RA, etc., be mindful not to overload him/her with excessive work hours and make sure that he/she can maintain a good balance between the work and his/her own research and study hours.

10. Securing University Research Administrators (URAs) and other Management Personnel

"The Sixth Science, Technology, and Innovation Basic Plan" (Cabinet Decision on March 26, 2021) identifies the importance of efforts to improve the security of professional quality and treatment so that the positions of University Research Administrators (URAs) and other management personnel will become attractive. The Comprehensive Package to Strengthen Research Capacity and Support Young Researchers (January 23, 2020, Council for Science,

Technology, and Innovation) also addresses the need to establish career paths for management personnel, URAs, engineers, etc.

In light of these initiatives, research institutions are encouraged, to the extent possible, to secure certain lengths of fixed-term employment (of about five years or longer) for URAs and other management personnel (who are currently hired or will be hired newly by research institutions) when engaging them in the management of KAKENHI research programs, by using not only KAKENHI, but also funds such as indirect expenses and basic costs under other external funds, and donations, for example.

In addition, please make active efforts to provide support in securing career paths for these management personnel, for example, enrolling them in URA training, etc. Also consider utilizing the indirect expenses for such efforts.

11. Promoting Efforts to Support Gender Equality and Foster Human Resources

The Science, Technology, and Innovation Basic Plan (Cabinet Decision on March 26, 2021), the Basic Plan for Gender Equality (Cabinet Decision on December 25, 2020), and Education and Human Resource Development Policy Package toward the Realization of Society 5.0 (Decision by the Council for Science, Technology and Innovation on June 2, 2022) aim to create research environments that make it easier for both men and women to continue their research activities when

life events occur, such as childbirth, childcare, and nursing care, as well as to promote the appointment of excellent female researchers as project leaders, among other measures. Another goal is to increase the proportion of female students in middle and high school who advance to master's and doctoral courses especially in the science and engineering fields through initiatives to communicate the fascination of these areas to female students in middle and high school, their parents, and their teachers, thereby overcoming the current situation with a low percentage of female students going to doctoral courses in natural science and increasing the number of potential bearers of knowledge in Japan.

In addition, if due consideration is not paid to sexual differences in research and development processes that require such consideration, it may cause inappropriate impact at the stage of social implementation. As such, research and technological development that properly give attention to sexual differences, such as those in physique and the structure and functioning of bodies, are needed.

In light of these points, in KAKENHI-funded projects, JSPS will take into account efforts to promote the participation and advancement of female researchers and expand the range of human resources that will play a role in science and technology in the future.

To advance science, it is important to secure an environment that allows diverse researchers to exercise their potentials and advance their activities. In September 2023, JSPS established the "Basic Guidelines for Promoting Gender Equality in JSPS Programs" to promote gender equal

participation in areas of science.

As part of this initiative, JSPS opened a new website CHEERS! (URL: https://cheers.jsps.go.jp/) in an aim to support the diverse careers of all researchers, such as balancing research and life events. JSPS will release useful information on, for example, how to balance research and childcare and actively carry out various initiatives through CHEERS! to create a network among researchers.

Researchers are encouraged to visit the website.

12. "HIRAMEKI☆TOKIMEKI SCIENCE – Welcome to a University Lab – Science That Inspires and Inspirits"

The "HIRAMEKI TOKIMEKI SCIENCE" program is designed to offer opportunities to gain a deeper understanding of the meaning of science and its roles in daily life to society, as part of efforts to give back to society and promote KAKENHI-funded research achievements.

Based on their KAKENHI-funded academic studies, researchers themselves communicate the fun and fascination of scientific pursuit directly to the younger generation in an easy-to-understand manner. They thus instill intellectual curiosity and a rich sense of creativity in pupils in their fifth and sixth years of elementary school and students in middle and high school, who will go on to shoulder the future of Japan. As we are looking for such experience-based programs, regardless of areas of research, please take advantage of this opportunity.

URL: https://www.jsps.go.jp/j-hirameki/

VI. Inquiries

1. Inquiries about the invitation of applications should be directed to the following divisions <u>through the research institution.</u>

(1) For inquiries concerning the invitation of applications:

Research Aid Division III, Research Program Department, Japan Society for the Promotion of Science

Telephone: 03-3263-1888

* Available from 9:30 to 12:00 and from 13:00 to 17:00 every day (except on Saturdays, Sundays, National Holidays, the New Year Holidays (from December 29 until January 3), and the Anniversary of the Foundation of JSPS (September 21))

e-mail : kksi-kaken2@jsps.go.jp

(2) For inquiries concerning the use of the KAKENHI electronic application system: Call center:

Telephone: 0120-556-739 (toll-free)

* Available from 9:30 to 17:30 every day except Saturdays, Sundays, National Holidays and the New Year Holidays (from December 29 until January 3)

(3) For inquiries concerning the use of the Cross-ministerial Research and Development management system (e-Rad):

e-Rad help desk:

Telephone: 0570-057-060 (Navi Dial)

- * Available from 9:00 to 18:00 except on Saturdays, Sundays, National Holidays and the New Year Holidays (from December 29 until January 3)
- * The following phone numbers are also available: 03-6631-0622

< Important points >

① How to operate e-Rad

Manuals on how to operate e-Rad can be referred or downloaded from the portal site (URL: <u>https://www.e-rad.go.jp</u>). Please agree to the terms of service and apply.

② Time period when e-Rad is available

Monday to Sunday, 00:00 - 24:00 (in operation 24 hours a day, 365 days a year) However even during the above-mentioned time period, the operation of e-Rad may be disrupted or suspended when maintenance and inspection is being carried out. If the operation is scheduled to be disrupted or suspended, this will be announced beforehand on the portal site.

(4) For matters related to the "Self-Assessment Checklist on the Improvement of the System", based on the "Guidelines on the Management and Audit of Public Research Funds at Research Institutions (Implementation Standards)":

Office of Competitive Research Funding Administration, Research Environment Division, Science and Technology Policy Bureau (MEXT) Telephone: 03-5253-4111 (ext. 3866, 3827) e-mail: <u>kenkyuhi@mext.go.jp</u>

(5) For matters related to the "Checklist pertaining to the Current Status" based on the "Guidelines for Responding to Misconduct in Research":

Office for Research Integrity Promotion, Research Environment Division, Science and

Technology Policy Bureau (MEXT) Telephone: 03-6734-3874 e-mail : jinken@mext.go.jp

(6) For matters related to use of support by Platform formed by "Foundation of Scientific Research Support"

Grants-in-Aid for Scientific Research Team, Scientific Research Aid Division, Research Promotion Bureau, MEXT Telephone: 03-6734-4087

(7) For matters related to "the National Bioscience Database":

National Bioscience Database Center, Japan Science and Technology Agency (JST) Telephone: 03-5214-8491

(8) For matters related to the "Inter-University Bio-Backup Project":

Executive Office, IBBP Center, Inter-University Research Institute Corporation National Institutes of Natural Sciences Telephone: 0564-59-5930, 5931

(9) For matters related to the "National BioResource Project":

National BioResource Project (NBRP) Executive Office (established in the Research Organization for Information and Systems, National Institute of Genetics) Telephone: 055-981-6809

(10) For matters related to the "researchmap":

Service Support Center (in charge of the researchmap), Department of Information Infrastructure, National Institute of Advanced Industrial Science and Technology (JST) Web inquiry form: https://researchmap.jp/public/inquiry/

(11) For matters related to the "Security Export Control Policy":

Security Export Control Administration Division, Trade Control Department, Trade and Economic Cooperation Bureau, Ministry of Economy, Trade and Industry Telephone: 03-3501-2800

2. The application forms (Research Proposal Document) and other application materials can be downloaded from the following website.

JSPS's website on Grants-in-Aid for Scientific Research URL : https://www.jsps.go.jp/j-grantsinaid/35_kokusai/05_sendou/koubo.html