Moonshot Research and Development

Project Manager Application Guidelines Main Document 2026 [For all Goals]



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	Appendix 1 (Goal ●) (● is the selected goal number)
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	Appendix 3 PD's policy (Goal ●) (● is the selected goal number)
	Attached Document 1: The basic approach for the Moonshot Research
а	nd Development Program (Council for Science, Technology and
I	nnovation (CSTI), Headquarters for Healthcare Policy)
	Attached Document 2: Guidelines for Operation and Evaluation of the
\ \	Ioonshot R&D Program (Cabinet Office, Ministry of Education, Culture,
S	ports, Science and Technology, Ministry of Agriculture, Forestry and
F	isheries, Ministry of Economy, Trade and Industry)

[If the English version of the information of call for application does not conform to the Japanese version, the Japanese version shall prevail.]

Chapter 0 To those who are applying for or participating in the project

0.1 Contribution to the achievement of Sustainable Development Goals (SDGs)

JST to contribute to the achievement of Sustainable Development Goals (SDGs)!

At the "United Nations Sustainable Development Summit" held in September 2015, "Transforming our world: the 2030 Agenda for Sustainable Development" was unanimously adopted; the document was an achievement that positioned "sustainable development goals (SDGs)" at its core, as a further comprehensive and new action target common to the world for human beings, the Earth, and its overall welfare. The seventeen goals included in the SDGs not only indicate various problems in relation to sustainability that are confronting humankind but also demand that these problems be solved comprehensively and in an integrated manner. It is expected that scientific and technological innovations will resolve such social problems and that scientific grounds are provided to contribute to the formulation of appropriate policies. We can say that these roles conform to the concept "the science in the society and the science for the society," a new objective of science that was declared in the "World Declaration on Science and the Use of Scientific Knowledge" (Budapest Declaration*) which was adopted at the International Council for Science in 1999. As a core organization aimed at promoting the science and technology policies in our country, JST promotes advanced fundamental researches and manages researches and developments that resolve problems corresponding to societal needs. SDGs are a worldwide objective that can itemize all JST's missions. Through JST programs, we want to collaborate with various industries, academia, governmental bodies, and private enterprises, as well as cooperate with researchers to realize a sustainable society.

Japan Science and Technology Agency, President

^{*}The Budapest Declaration has declared that "science for knowledge," "science for peace," "science for development," and "science in society and science for society" are the responsibilities, challenges, and obligations of science in the 21st century.





0.2 Promoting diversity

JST to promote diversity!

"Diversity" is desired as a foundation that results in scientific and technological innovation. Regardless of age, gender, or nationality, human resources with various areas of expertise, values, and the like can exchange ideas and cooperate to creatively work together to develop a new world. In all fields of science and technology, JST promotes diversity to address the problems that our future society will face and to contribute to the enhancement of our country's competitiveness and mental resources. In the Sustainable Development Goals (SDGs) advocated by the United Nations, gender equality and other targets deeply linked with diversity are also stated; we will contribute to the resolution of problems in our own country that are also common to other parts of the world.

Recently, the acts of women have been seen as comprising the core of the growth strategy and as "the greatest potential force of Japan." Also, in researches and other developments, women's participation is important; among various human resources intended to support innovation in the field of science and technology, female researchers are essential. JST expects proactive applications from female researchers. JST has been listening to the researchers who use our "Maternity, Child Care, and Nursing Support System," which has

been ongoing; and we have also been continuously endeavoring to improve the system by, for example, providing an environment in which researchers can return to their fields.

In our call for new research problems and our reviews, we will also consider applications from the perspective of diversity.

We will be grateful if researchers demonstrate their positive attitudes by applying to our program.

Japan Science and Technology Agency, President

We are waiting for your application

JST understands that diversification entails an understanding of people with ideas different from our own and combining them to create new values; based on this idea, JST has been promoting diversity. This will lead to not only solutions for the problems of our own country but also to those common throughout the world; in cooperation with organizations overseas, we promote diversity and in so doing, will cope with social problems on a global scale, including SDGs.

JST's diversity covers women, as well as young researchers and researchers from other countries. To ensure that all individuals can sufficiently exercise and play important roles, we have been continuously giving support to researchers during their maternity periods and those with children or in circumstances in which they are caring for the elderly. Further, we have also been making an effort to ensure that our committees will have well-balanced personnel assignments. Aiming for an environment in which a wide range of people cooperate and compete with one another, we welcome applications from female researchers, which we have not often received; thus, we are endeavoring to create new value.

We are eagerly anticipating proactive applications from you all.

Director of Diversity and Inclusiveness
Director of the Office for Diversity and Inclusiveness
Japan Science and Technology Agency (JST)

0.3 Aiming for fair research activities

Aiming for fair research activities

Unethical acts in researches or other dishonest research activities, which have been recurring in recent years, have destabilized the relationship of trust between science and

society and have caused situations that should be cause for concern, such as those that obstruct the wholesome development of science and technology. To prevent injustices in researches, the autonomous self-cleansing function in the scientific community is needed. All researchers must strictly control themselves and based on a supreme sense of ethics, must cope with the creation of new knowledge and inventions useful for society such that they meet societal expectations.

As an organization that distributes research funds, JST takes injustice in researches seriously; we cooperate with the relevant organizations and make a thorough effort to take measures that prevent injustices from occurring, which will ultimately enable us to recover the trust of society at large.

- 1. JST thinks that ethics and fairness in research activities are extremely important for our country, which aims to be a nation based on science and technology.
- 2. JST supports research activities that are honest and accountable.
- 3. JST has no tolerance for injustice in researches.
- 4. In cooperation with the relevant organizations, JST copes with the promotion of education related to research ethics to prevent injustices and reorganize the system by which research funds are distributed.

We must grow a wholesome scientific community and culture based on societal trust to embody a bright future for society that is populated by dreams and hopes. We would like to ask for further understanding and cooperation from research communities and the relevant organizations.

Japan Science and Technology Agency, President

Chapter 1 An overview of the Moonshot Research and Development

1.1 Management principle and organization

1.1.1 Principle of management

Japan Science and Technology Agency (JST) began this "Moonshot Research and Development (Moonshot R&D)" based on challenging R&D concepts in which the Ministry of Education, Culture, Sports, Science and Technology(hereinafter referred to as "MEXT") defines has defined the fields and areas where challenging research and development should be promoted to achieve Goals that attract the public (Moonshot Goal (hereinafter referred to as "MS Goals")) regarding societal problems that are expected to have a great impact if they are realized, regardless of the difficulty in doing so, from the perspective of our future society. To begin the Moonshot Research and Development, we call for the project managers (referred to as "PM" from here) who will propose and manage the research and development projects for the achievement of the MS Goals and the realization of R&D concepts. This project falls under the category of a competitive research funding system.

1.1.2 Overall management organization

The general management of Moonshot R&D will be supervised by the Governing Committee organized by JST. Further, the Program Directors (PDs) appointed by JST for the achievement of the MS Goals and realization of the R&D concepts will take charge of the management. Under each PD, the PMs selected for Moonshot R&D are required to promote each R&D project. (See Fig. 1.)

1.1.3 The roles of the PMs

(1) PM

The PMs collate the relevant knowledge from different researchers—top runner, young, and senior—in and outside Japan and formulate the scenario to achieve the MS Goals through backcasting—achieving the Goals, designing challenging R&D projects based on a bold idea that is not an extension of some conventional technology, planning and

ensuring management of the organization for R&D, building an organization to provide support to the PMs, and ensuring management of the various assignments to fulfill the above-mentioned aims (hereafter "PM activities"); thus, they take responsibility for R&D projects in general. The PMs, in principle, need to devote themselves to the PM activities.

(2) Performer

The Performers must manage the assignments for the researches and developments entailed in the R&D projects, as instructed by the PMs, to achieve the MS Goals and embody the R&D concepts.

(3) Leader's institution

These are the institutions that employ the PMs, and mainly manage the operations to support the PMs' activities so they can be performed effectively and efficiently.

1.1.4 The roles of the committees organized within JST

(1) Governing Committee

The Governing Committee comprises experts from outside JST, and decides the major principles and methods and discusses other important issues for the operation of the projects, selects PMs, plans the execution, continuation, acceleration, and/or deceleration of R&D projects, and makes decisions on alteration and/or termination. JST makes decisions on what are discussed by the Governing Committee.

(2) PD

The PDs are appointed by JST for the achievement of the MS Goals and for the realization of the R&D concept and select PMs, strategically construct the portfolios (the management plans to sum up the composition (combination) of the R&D projects, the distribution of the resources, and other principles), decide the execution of the R&D projects, make evaluation, and give instruction for the promotion of the R&D projects to the PMs on the basis of the daily progress management of the R&D projects; thus, they take management of various assignments for the achievement of the MS Goals and the realization of the R&D concept. In cooperation with the sub-PDs and the advisors etc., who are external experts, the PD handles these kinds of work.

Anyone involved in evaluations for these reviews is obligated not to leak any

information obtained through this series of reviews to any third party, both while they are working to evaluate applications and after their work is completed.

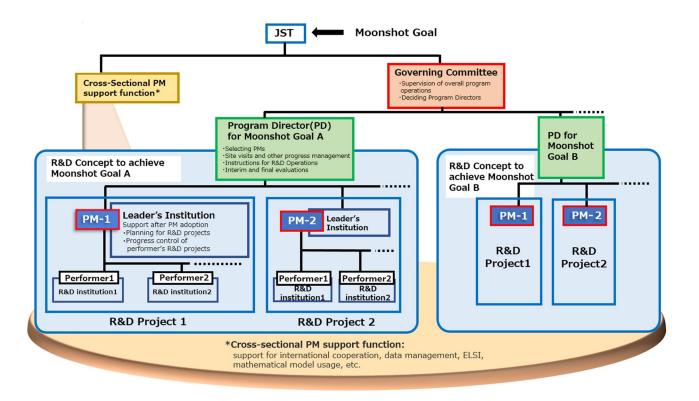


Fig. 1. The organization for the overall operation of the Moonshot Research and Development

1.2 The workflow of project operations

1.2.1 Call for and selection of PMs

JST, based on the MS Goals defined by the Council for Science, Technology and Innovation (referred to as "CSTI" from here) and on the R&D concept defined by the MEXT, calls for, and selects, in principle, two or more PMs, who promote the R&D projects.

*As for the details of the call and selection, see "Appendix 1 (Goal ●) (● is the selected goal number) "

1.2.2 PMs to refine and execute R&D projects

(1) Refining R&D projects

The PMs adopted for Moonshot R&D, with the direction by the PD in cooperation with

the sub-PD and the advisors, refine the R&D projects. During the period of refining, they further develop (review and embody) the R&D projects they proposed at the time of application. The refining includes reviewing the scenario to attain the MS Goals, the detailed plans for the R&D project, the organization to give support to the PM activities by the representative of the organization, and the like. For Goal 10, adjustments such as changes, additions, or deletions to some of the challenges will be actively made based on the content of the R&D, at the PD's discretion.

The PMs, whose refining (hereinafter referred to as "R&D project implementation plan") is recognized as appropriate by the PD in cooperation with sub-PD and advisors, are allowed to execute the R&D project based on a determination of the refining appropriateness.

*For further details, please see section 3.1 "PMs to refine R&D projects."

(2) Starting R&D projects

To start an R&D project, top-level engineers, and young, senior, and other researchers are brought together for their vast knowledge to construct organizations for the same. The PMs use appropriate methods, such as designation and public invitations to select Performers and construct organizations focused on research and development. The composition of the R&D institutions is determined during the refining period; however, depending on the progress status, changes in external environments, Performers may be added and/or switched even during the period in which the R&D projects are executed. In achieving Goal 10, when a broader advancement in research challenges is expected, a system that consolidates knowledge from a wide range of fields necessary for solving these challenges will be required. Therefore, the addition of Performers from various research communities beyond ones specifically related to the goal must be actively pursued throughout the R&D project duration. Further, considering the aims of Moonshot R&D, they should proactively promote invitations to accomplished overseas researchers and international joint researches. To initiate the R&D projects, the leader's institution and the institutions to which the PMs and Performers belong (hereinafter referred to as "R&D institutions") must take a pledge regarding the regulations governing the implementation of the R&D projects in which they are participating and must also draw up a contract with JST for the entrustment of the R&D projects.

*For further details, see section 3.2, "PMs to implement R&D projects."

1.2.3 Evaluation of the PMs by the PDs

The PD, in cooperation with the sub-PD and the advisors, evaluates the PMs during the execution of the R&D projects. In either case, depending on the outcome of the evaluations, the R&D project maybe continued, accelerated, decelerated, altered, terminated, or handled in some other way. The evaluation of the PMs is performed based on the progress status and regarding themilestones that were formulated in the implementation plans for the R&D project, the status of the PMs' project management, and so forth.

*For further details about the external evaluations and self-evaluations for R&D projects based on Attached Document 2 "Guidelines for Operation and Evaluation of the Moonshot R&D Program", please see section 3.5 "PDs' progress management and evaluation of the PMs."

1.2.4 Other

The operation of Moonshot R&D also conforms to "Guidelines for Operation and Evaluation of the Moonshot R&D Program" (Cabinet Office; Ministry of Education, Culture, Sports, Science and Technology; Ministry of Agriculture, Forestry and Fisheries; Ministry of Economy, Trade and Industry; February 4, 2020, Revision: August 22, 2025) defined based on "The basic approach for the Moonshot Research and Development Program" defined by CSTI and the Headquarters for Healthcare Policy (December 20,2018, Revision: February 27, 2020).

Chapter 2 Management of participant conflicts of interest in selection processes

From the viewpoint of fair and transparent evaluation and allocation of research funds, the following conflict of interest management will be implemented in accordance with JST's regulations.

2.1 Managing conflicts of interest of those involved in selection

To achieve fair and transparent evaluation and research fund allocation, JST will manage the conflicts of interest as described below in accordance with JST's rules. If there are any concerns regarding conflicts of interest with individuals involved in the selection process, please specify these in detail on [Form 7].

- a. Persons who are relatives of proponents
- b. Persons who are affiliated with the same department or specialty at a university to which the proponents are affiliated, who are board members or considered affiliated members of the same university or managed corporation, or who act as the represent of the university.
- c. Persons who are affiliated with the same company as the proponents, or with a company that is a parent company or similar to the company with which the proponents are affiliated.
- d. Persons who are conducting a close collaboration in a research work with proponents.
- e. Persons in a close teacher-student relationship, or in a direct employer-employee relationship.
- f. Persons in relationships of direct competition with proponents
- g. Persons in other relationships judged by JST to representing conflicts of interest with proponents.

2.2 Managing conflicts of interest of proponent (PM-Performer relationship)

To avoid any doubts of third parties, we manage the following conflicts of interest between PMs and Performers by appropriately considering the necessity, rationality, and adequacy of the situation. Situations for consideration include:

- a. The PM is also a Performer.
- b. The Performer is a relative of the PM.
- c. The Performer belongs to the same department, major, or the like as the PM at a university, college, or R&D organization of a national research and development corporation or the like or to the same enterprise as the PM.
- d. The Performer engages closely in a joint R&D project with the PM. This refers to, for instance, conducting a joint project, coauthoring a research paper, being members of an R&D project for the same purpose, or being joint researchers tasked with a problem from the PM, or practically belonging to the same R&D group as the PM.
- e. The Performer is closely associated with the PM as a teacher or student, or they have a direct employer-employee relationship.
- f. The Performer is judged, by JST, to have shared interests with the PM.

In consideration to the aim of this program, which is to gather the wisdom of a variety of researchers such as the top researchers, young and senior researchers in and outside the country, the conflict of interests with PMs are not judged from a uniform standard to expel them from the projects without exception. Even if there are conflicts of interest between a PM and a Performer, the Performer can be allowed to participate in the project considering necessity, rationality, and adequacy.

Proponents may be questioned at interview regarding a Performer candidate who has a conflict of interest. Extra documents may be required to implement the management of conflicts of interest with a Performer candidate.

2.3 Managing conflicts of interest of proponent (PM-related organization)

If the proponent makes a research proposal with a "PM-related organization" specified as a joint R&D group, and JST allocates research funds to the PM-related organization, it may cause a conflict of interest. Consequently, JST properly determines and manages the conflicts of interest between the two in consideration of the necessity, rationality, and appropriateness of doing so to avoid any doubt from third parties.

The "PM-related organizations" refer to the joint R&D group that meet any of the

following. For "a" and "b," not only PM but also the spouses and relatives within the first degree of PM (hereinafter collectively referred to as "PM, etc.") shall be handled as follows:

- a. An organization established based on the R&D results of "PM, etc." (including the cases where the PM, etc. is not directly involved in management and only holds the title of a technical advisor, or where the PM, etc. only hold shares.)
- b. An organization where the "PM, etc." is appointed as an officer (including CTO but not a technical advisor).
- c. An organization where the PM holds shares.
- d. An organization from which the PM earns royalty income

Proponents may be questioned at interview regarding a "PM-related organization" specified as a joint R&D group. Extra documents may be required to implement the management of conflicts of interest with a "PM-related organization".

2.4 Managing conflicts of interest of JST

Adopting a JST-invested company (hereinafter referred to as the "invested company") for the program and allocating R&D funds to the invested company may fall under the JST's conflicts of interest. To avoid this, JST will implement management of the conflicts of interest to avoid any doubt from third parties related to JST and the invested company.

Proponents may be questioned at interview regarding an "invested company" specified as a joint R&D group. Extra documents may be required to implement the management of conflicts of interest with JST. JST manages the conflicts of interest to secure its fairness and transparency and does not handle an invested company unfavorably.

*For JST-invested companies, visit the following website:

https://www.jst.go.jp/entre/result.html#M01

When JST no longer funds the company, the company is not included in the management of the conflicts of interest and does not need to make a notification.

*The standard date of the notification is the day on which the open call for this program begins. The company to which JST has announced to invest as of this date should be

notified. The company to which investment is internally decided but not announced need not be disclosed to maintain confidentiality within JST. For the disclosed investment of JST that is publicized, please visit the following website:

https://www.jst.go.jp/entre/news.html

Chapter 3 Promoting R&D projects after PMs are adopted

3.1 PMs to refine R&D projects

The PMs, with the direction by the PD in cooperation with the sub-PD and the advisors, refine the R&D projects. Specific items included in the refining are as follows: propose detailed plans for R&D projects (to formulate the scenarios backcast from the achievement of the MS Goals considering ELSI to prepare the R&D Plans, including the targets of the R&D projects and specified milestones, and to construct a research and development organizational infrastructure, etc.) and to construct an organizational infrastructure to support PM activities performed by the leader's institution. Through such refining, each type of investigation, such as trends in technology, workshops, and symposiums, is conducted or held to absorb opinions from various fields to achieve the MS Goals, the contents of the R&D projects proposed at the time of the application are further developed 37 (reviewed and embodied), and more effective and efficient R&D plans are proposed for the achievement of the MS Goals. The period of such refining is, in principle, within two months after the adoption. (If the leader's institution is not decided, R&D project cannot be started.

If the PM does not choose the present institution as the leader's institution, the deadline will be three months after the adoption.) In addition, for Goal 10, adjustments such as changes, additions, or deletions to certain challenges will be actively made based on the R&D content, at the discretion of the PD. In achieving Goal 10, it's necessary to not only focus on specific research communities but also gather insights from a broad range of fields necessary for solving challenges when further progress in the research topic is expected. Therefore, the addition of Performers from various research communities beyond ones specifically related to the goal must be actively pursued throughout the R&D project duration.

[Important items, such as the contents comprising the refining of R&D projects]

- (1) Further developing (reviewing and embodying) the contents of R&D projects

 OTo specify the targets and milestones of the R&D project
 - •Tracking back from the future society when the MS target for 2050 is achieved, extrapolating from FY 2028, and FY 2030, as well as to the time when the MS target is achieved, and formulating scenarios to be addressed as R&D projects, including collaboration with existing R&D projects
 - •To specify the targets of the R&D project and the milestones that can be quantitatively evaluated regarding the progress of the R&D project upon evaluation for the embodiment of the scenario
 - *The evaluation is performed based on milestones previously defined at the time of the refining.
 - To make specific plans for research and development and for a research and development organization
 - •A specific R&D plan (R&D items, contents/approach, budget allocation plan, etc.) and a plan to establish an R&D system, including collaboration with existing R&D projects, based on the scenario to be addressed as an R&D project for FY 2028, and FY 2030.
 - Constructing research and development organizations
 - The plans for selecting necessary Performers to implement the plans created in the previous item (positioning within the research and development organization, selection timing, the methods, etc.)
 - The selection of Performers who participate at the beginning of the R&D project
 - The plans for the research and development of the applicable Performers
 (the problems in the R&D subjects, the contents and approach, the plans for distributing budgets, etc.)
 - O Gathering wisdom and expertise from various fields
 - Conducting each type of investigation, such as technology trends
 - Hosting workshops, symposiums, etc.
 - (2) Constructing a system to support PM activities
 - Determining a leader's institution

- O Proposing plans to structure the organization to support PM activities
- O Constructing an organizational infrastructure to ensure the support necessary at the beginning of the R&D project and organizing an appropriate environment

(3) Other

- Making arrangements for and organizing implementation regulations to define items that should be observed by participants in the R&D project
- Moving the base of activities quickly into Japan (if the base of activities is outside Japan at the time of the adoption)

3.2 PMs to implement R&D projects

In cooperation with the sub-PD and the advisors etc., the PD judges the adequacy of the contents of refining. The PMs whose contents are recognized as appropriate are allowed to execute the R&D projects. PMs make arrangements for the implementation of the R&D Plans with each Performer, who is selected in advance to carry out the R&D project. Performers must undertake the management of the scope of the research and development designated by the PM, among the tasks entailed in the R&D project. Specifically, PMs clarify the objectives required to implement the scope of the applicable R&D project and the targets that should be achieved within the scope, and Performers propose plans for the R&D project based on the targets identified. Performers implement the R&D project under the management of the PM and based on the plans approved by him or her. PMs endeavor to understand the progress status of the research and development implemented by each Performer in a timely manner and give them instructions and/or advice accordingly. In cooperation with the sub-PD and the advisors etc., the PM judges the fact that the PM takes management of the R&D on his or her own. PMs are allowed to participate in the R&D on their own if they have an approval.

PMs try to understand the situation of the economy and social environment in relation to the applicable R&D project during the period of the implementation of the R&D project and need to implement the R&D project by confirming the adequacy of the scenario to reach the MS Goals having been created by themselves. In consideration to the aim of the Moonshot R&D that supports the R&D with high-risk and high-impact for leading disruptive innovation (See also "The basic approach for the Moonshot Research and Development

Program"), it is expected that PM manages the R&D project by the approach with a small start and stage gates. (e.g. In the case of a project that requires technical examination, although research results can be anticipated if successful, the project starts as its feasibility study with a small start.) Under the direction of PD, and depending on the process in R&D project and the changes in at the external environment, PM needs to manages R&D project agilely and flexibly with his or her power and responsibility, by changing the direction of R&D project that contains such as increases, decreases, and spinouts of parts of R&D project. (In accordance with Guidelines for Operation and Evaluation of the Moonshot R&D Program, and considering the results of external evaluation and self-evaluation, PM should decide continuation, increase, decrease, change, and finish of R&D project.)

In addition, when considering the aims of Moonshot R&D, they must proactively promote the invitation of top-tier, overseas researchers and international joint research activities.

For the start of the R&D projects, the R&D institutions etc. need to make a contract for the entrustment of the research and development activities with JST as well as to take a pledge with respect to the regulation for implementing the R&D projects.

3.3 Commissioned R&D contracts

- (1) For the start of an R&D project, JST makes, in principle, a contract for the entrustment of the R&D with the R&D institution. Moreover, before the R&D entrustment contract, the R&D institutions and JST prepare regulations for intellectual property, the handling of secrecy, and other operational rules for the R&D project. The R&D institutions should make a pledge.
- (2) If the R&D institutions cannot reach an R&D agreement, an organization for the management or audit of the public esearch cost is not completed, or the status of financial affairs is extremely unstable, then the applicable R&D institution may not be allowed to perform the R&D.
 - *For the details, see section 3.8, "Items the R&D institutions etc. should pay attention to in particular."
- (3) The intellectual properties such as patents that come from the R&Ds are, on the basis of the R&D agreement, in principle belong to the R&D institutions etc. on condition that the items described in Article 17, Industrial technology enhancement

act (Japanese version the Bayh-Dole Act), is observed by the R&D institutions.

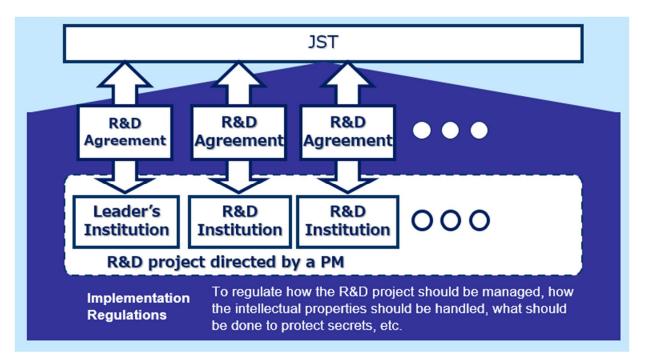


Fig.3 Organizations and Contracts

3.4 R&D funds

JST, on the basis of the R&D agreement, pays R&D funds as direct cost and indirect cost to the R&D institutions.

3.4.1 Direct cost

The direct cost is for the expenditures listed below paid by an R&D institution etc.

- a. Cost for goods: the expense to purchase a new facility, equipment, or consumables*.
- b. Cost for travel: the expense for the PMs', Performers', and R&D project participants' travel, as described in the R&D plan for PMs and Performers.
- c. Cost for labor: The labor cost and rewards for the PM, the Performers, and the R&D project participants*
- d. Others: the cost for the publication of research results (submitting a paper), leasing equipment, transport, and patents.
 - *For the purchase of a new research facility and/or equipment, assume the use of "a

system to share the research facility/equipment by the unit of a research organization" ("equipment sharing system" from here). It is discussed in the "Introduction of a New Research Facility/Equipment Sharing System Integrated with the Management of Research institutions" (Advanced Research Platform Group, Council for Science and Technology, November 2015). For more details, see section 4.13, "Promotion of sharing research facilities and equipment.

- *In the R&D project proposal form, the description on the major facility to be purchased is needed; after the adoption is determined, in the course of the refining of the R&D project by the PM, the plans for the purchase, operation, sharing of the applicable facility should be brushed up. In addition, from the viewpoint of the effective and efficient implementation of each R&D project implemented in this program, some arrangements may be made for the facility to be purchased with the direction of the PD in cooperation with the sub-PD and the advisors etc.
- *The duplicated labor cost of a person that is managed by the national government with a management expense grant for national university corporations, incorporated administrative agencies, or with government subsidies to incorporated educational institutions, will be excluded. Furthermore, the labor cost for the PMs and the persons who support the activities of the PMs conform to the regulations of the PM's institution. It should be within the appropriate scope, according to socially accepted ideas (to be discussed in deliberation with JST in advance).
- *In JST's competitive research fund projects, a principal investigator (a PM for the Moonshot R&D Program) at university can pay for costs for their own personnel and delegated work other than research (buyout costs) only when meeting requirements. Please see below for the necessary requirements.
- Expenditure of Personnel Expenses for Principal Investigators (PIs) from the Direct Expenses of Competitive Research Funds" (October 9, 2020)

https://www8.cao.go.jp/cstp/compefund/pi_jinkenhi.pdf

ORevision of the Direct Expenses of Competitive Research Funds to Allow Expenses for Non-research Activities on Behalf of Researchers (Introduction of a Buyout System)" (October 9, 2020).

*In Moonshot R&D, appropriating the direct cost to other costs is allowed when the research results are expected to lead to a patent during the R&D project implementation period (the cost for a patent application, patent lawyers, travel, procedures, and translation).

< Moonshot Research and Development - Instruction of procedures to execute contracted research and development>

(for universites) https://www.jst.go.jp/contract/moonshot/2025/moonshota.html
(for companies) https://www.jst.go.jp/contract/moonshot/2025/moonshotc.html

3.4.2 Indirect cost

Indirect cost is the cost that is necessary for the management etc. of the R&D institutions etc. for the implementation of the R&D project, which can be paid based on the following ratio with respect to the direct cost:

Indirect cost is regarded, in principle, as 30 percent in comparison with the direct cost for universities and 10 percent for others (20 percent for medium- or small-sized companies only). The definition of medium- or small-sized companies is based on the situation at the time of the decision of their prospective participation in the R&D project. They must conform to the Small- and Medium-sized Enterprise Basic Act, Article 2, Paragraph 1 (the scope of small- and medium-sized enterprises and the definition of terms).

When utilizing indirect cost, R&D institutions, etc., must create a policy for its use and execute this in a systematic and reasonable way, as well as ensuring transparency of expenditure, in accordance with the "Common Guidance for the Execution of Indirect Expenses of the Competitive Fund" (agreed upon by the coordination committees of relevant ministries and agencies for competitive research funding on April 20, 2001, and revised on October 1, 2021).

3.4.3 Multi-year contracts and the carry-over system

JST has R&D agreements as multiple-year contracts, which make it possible to carry over R&D funds and make contracts for procurements that continue beyond fiscal years. The aim is to further effective and efficient uses of R&D funds and prevent misconduct for the maximization of R&D funds. (as for the carry-over system, there may be cases in which multiple-year contracts are not allowed or carry-over is not applicable depending on the clerical management systems etc. of R&D institutions etc. besides the handling that is different among universities and companies).

3.5 PDs' progress management and evaluation of the PMs

As for the progress management of PMs, evaluation, etc., in cooperation with the sub-PD and the advisors etc., the PD handles these kinds of work.

(1) Progress Management of PMs

PMs need to provide status reports of their R&D projects to the PD as requested. Their reports should be submitted, in principle, biannually; however, the timeline may vary. Furthermore, PD may visit the sites of R&D institutions etc. for the purpose of grasping the progress status, giving advice and/or instruction, etc. in cooperation with the sub-PD and the advisors etc., as necessary.

(2) Evaluation of PMs

The PD evaluate the PMs during the realization of the R&D projects, in cooperation with the sub-PD and the advisors etc.

The evaluation will be conducted in FY2028 and FY2030.

In addition, Funding agency will have the self-evaluation every year. The evaluation of the PMs are performed based on the status of the progress with respect to the milestones (standards and conditions) that can quantitatively evaluate the progress of an R&D project target and/or of an R&D project that is/are defined in the R&D plans as well as the status of the project management of the PMs. The evaluations are performed in consideration, as necessary, to the state including external factors such as the changes in the economic and/or social environments in the period up to the time of the

evaluation from the time for refining.

Resulting from the evaluation, the R&D project plans may change, the R&D cost may increase or decrease, or the R&D project may be terminated altogether (a PM may be dismissed).

[Viewpoints of evaluation]

- The appropriateness of project targets and contents aimed at achieving the MS Goals
- The status of progress toward project targets (particularly comparisons of both domestic and overseas)
- The future prospects of project targets
- O The status of establishing an R&D system
- O PM's project management status (including flexibility and nimbleness)
- O Status of research data storage, sharing, and disclosure
- Cooperation with industry and the status of bridging the gap between the R&D and practical use in society (including the status of acquiring private funding [matching] and spin-out)
- Effective and efficient R&D promotion through international cooperation
- Challenging and innovative efforts based on bold ideas
- Effective and efficient use of research funding (including role sharing between the public and private sectors, and stage-gates)
- O Bi-directional communication activities (public dialogue on science and technology)

(3) Others

To manage the PDs' portfolios, there may be opportunities for further review of the PMs, depending on their management methods after the evaluation period defined here.

3.6 The roles and responsibilities of the PMs, leader's institutions, and Performers

3.6.1 The roles and responsibilities of the PMs

The PMs gather the wisdom of a variety of researchers such as top-runner researchers, younger researchers, and senior researchers in and outside Japan, plan, propose, and

implement challenging R&D projects based on a bold idea that is not an extension of some conventional technology, construct and take management on their own, and carry the responsibility for the R&D projects in general for the achievement of the MS Goals and the realization of the R&D concepts.

Specifically, they promote the following management responsibilities for R&D projects with the support of their leader's institution or the like.

[The management of the R&D projects performed by PMs]

- (i) Designing R&D projects
 - Planning and proposing R&D projects
 - •To formulate scenarios backcast from the achievement of the MS Goals, to prepare R&D Plans, including the targets of R&D projects, specify milestones, etc.
 - O Building research and development organizations
 - To formulate plans to construct optimal research and development organizational infrastructure to promote R&D projects
 - To select Performers based on the above-mentioned plans
- (ii) Implementing and undertaking the management of R&D projects
 - Undertaking the management of R&D projects
 - To summarize the R&D Plans for each Performer, as well as the budget plans, to grasp the progress status, and to summarize reports, etc.
 - To promote cooperation among each Performer as necessary
 - To undertake the management of research and development implementation,
 in addition to that mentioned above
 - Evaluating R&D projects
 - To flexibly conduct reviews to alter the orientation, including the acceleration or deceleration of R&D projects conducted by each Performer and the spin-off of part of research results
 - Applying research and development results
 - To formulate the principles of handling intellectual properties, to appropriately
 acquire intellectual properties, and to apply the results from the researches and
 developments, such as the activities required to transfer technology

(iii`	Organizing	เลรง	vstem	to	support	РМ	activities
۱		Organizmi	ıası	yStelli	w	Support	1 1.1	activities

- O To hire and undertake the management of the work done by personnel supporting the PM activities from the leader's institution
- O To organize the system in relation to management, including the cooperation of Performers in addition to the above-mentioned entity

(iv) Cooperation with JST

- O Reports to the PD, the sub-PD and the advisors as the external experts
 - To report on the status of the progress of the R&D projects to the PD, the sub-PD and the advisors
 - To respond to the advice and/or guidance from the PD, the sub-PD and the advisors
 - To respond to evaluation
- Making Business Arrangements
 - The regulations governing implementation overseen by R&D institute, JST, contracting businesses, and each entity involved to manage the implementation
 - To cooperate with JST in symposiums, training sessions, etc. and participation therein
- The management for the R&D projects instructed by the PD or the like besides the above-mentioned

(v) Publication and outreach activities based on the results of R&D projects

- O To undertake the management of the homepage, publish pamphlets, hold symposiums, make press releases, etc.
- Two-way communication activities in which researchers explain their research
 activities to society in a way that is easy to understand (science and technology
 dialogue with the public)
- To report publication and outreach activities to JST
- O To undertake the management and operation of public relations and outreach activities regarding R&D projects in addition to those mentioned above

3.6.2 The Roles and responsibilities of leader's institutions

The leader's institutions are the employers of the PMs, which mainly undertake the management of the operation to support PM activities to ensure that the PM activities can be performed effectively and efficiently.

A leader's institution, based on its contract with JST, organizes an environment in which the PM activities can be performed effectively and efficiently, hires personnel to support the PM, and constructs organizational infrastructure, thereby providing various types of support to the PMs' activities, including managing the progress of the R&D projects undertaken by the Performer, who works for the leader's institution or any other organization, and supporting the PM activities.

Specifically, it supports the activities in section 3.6.1, [The management of the R&D projects performed by PMs].

In addition, a leader's institution should manage the cross-organizational support provided to PM activities with the front-runner support function of Moonshot R&D, in addition to direct support for PM activities.

3.6.3 The roles and responsibilities of Performers

The Performers take management of the assignments for the researches and developments in the R&D projects as instructed by the PMs for the achievement of the MS Goals and the realization of the R&D concepts. The Performers make plans for the R&D project based on the targets that should be achieved within the purpose and scope to implement the applicable tasks as instructed by the PM. They then implement the R&D projects based on the R&D Plans that have been approved by the PM. Before a Performer initiates an R&D project, the R&D institution to which the Performer belongs must finalize a consignment research and development contract with JST, as well as take a pledge regarding the regulations under which it will abide when implementing the R&D projects in which it participates.

Furthermore, depending on the status of the progress of the research and development, and with the approval of PD, each PM may increase, decrease, or cancel the budget of the part of R&D project.

*PMs and Performers need to observe section 3.7, "Contract items the PMs and Performers should pay attention to," as well as the roles and responsibilities described in section 3.6.1, "The roles and responsibilities of PMs," and section 3.6.3, "The roles and responsibilities of Performers." See these sections for further detail. PMs must observe these roles and responsibilities as if they were a Performer, if they are allowed to implement R&D projects on their own and are conducting the tasks entailed therein. *Leader's institutions and R&D institutions (referred to as "R&D institutions etc." from here) need to observe section 3.8, "Items the R&D institutions etc. should pay attention to in particular," as well as the roles and responsibilities described in section 3.6.2, "The roles and responsibilities of leader's institutions," and section 3.6.3, "The roles and responsibilities of Performers." See these sections for further detail. The leader's institution must also observe them as an R&D institution, if its PM is allowed to implement the research and development on his or her own and is conducting the tasks

3.7 Contract items the PMs and Performers should pay attention to

entailed therein.

- (1) Participants must fully recognize that the taxes of national residents cover the R&D funds of JST, and they must spend them justly and efficiently.
- (2) After PMs are adopted, they and the Performers must observe the following items through guidance sessions, which are held by JST. They must submit to JST a document stating that the following items are confirmed. Furthermore, note that if the research ethics learning materials in Item c below are not finished, the R&D funds may be suspended until there is confirmation that the training course has been completed.
 - a. To observe the requirements of the public invitation and the regulations of the organization to which they belong;
 - b. To understand that the taxes of national residents cover the R&D funds of JST and that they should not commit improper acts in their R&D activities (falsification, alteration, and/or theft of papers) or improperly use R&D funds;
 - c. To notify and educate others about their participation in the course on research ethics learning materials, as designated by JST (eAPRIN, formerly CITI); to

- prevent in advance improper R&D activities or improper use of R&D funds among the R&D project participants
- *For more details, see section 4.2, "Completing the course on research and ethics education."
- (3) To prevent improper R&D activities in advance (falsification, alteration, and theft), the R&D PMs and participants need to finish the research ethics learning materials (eAPRIN, formerly CITI),etc.
 - *For more details, see section 4.2, "Completing the course on research and ethics education.
- (4) The PMs and participants should proactively support and ensure a variety of career paths inside and out of the country for the young doctoral researchers who are paid with R&D funds.
 - *For more details, see section 4.14, "Improving the treatment of doctoral students", section 4.15, "Ensuring self-sustaining, stable research environment for young researchers", section 4.17, "Voluntary research activities of young researchers employed for implementing the project" and section 4.18, "Supporting various career paths for young researchers".

(5) Handling R&D Results

- a. Acquire intellectual property rights properly. You follow the R&D agreement and have your R&D institution apply for (or file) a patent.
- b. If you publish a paper about the R&D results acquired from the implementation of an R&D project, explain that it is fruit of a Moonshot R&D project.
- c. The PMs will be asked to submit, together with the R&D project plan to JST, the "Data Management Plan" that compiles, by following the items listed below, the retainment and management and the publication or non-publication of the R&D data accrued as a fruit and the principles of the usage of the R&D data you can publish and, based on this plan, to appropriately implement the storage, management, publication, partial publication or non-publication of the data on the basis of the "Guidelines for Operation and Evaluation of the Moonshot R&D Program" and "JST's basic policies for handling research achievements toward an open science promotion."

 JST's basic policies for handling research achievements toward an open science promotion

https://www.jst.go.jp/all/about/houshin.html#houshin04

For the details of the items you fill in, see "The Guideline for the Use of the Basic Principle of JST in Relation to the Research Results for the Promotion of Open Science."

https://www.jst.go.jp/pr/intro/openscience/guideline_openscience_r4.pdf

- <The items you complete in the data management plans>
- The principles for the retainment/management of the R&D data as a target of management
- The principles in relation to the publication/non-publication of R&D data
- The methods of and organizations for publishable R&D data
- · The assumed uses and purposes of publishable R&D data
- The endeavors for the promotion of the usage of publishable R&D data
- Other special remarks
- d. For the advanced data management, clarify the categories of storage-sharing-publication of research data based on the open-close strategy. And promote research information exchange and storage-sharing- publication of research data, by utilizing the research data infrastructure system (NII Research Data Cloud) and other tools. When using NII Research Data Cloud, in order to ensure the accuracy of adding metadata to research data and reduce the input load, the necessary information related to this call registered in e-Rad will be provided to NII Research Data Cloud.
- e. We will ask the PMs and Performers to collaborate with R&D project participants on cross-sectional and outreach activities to promote cooperation and the multiplier effect in R&D at workshops and symposiums held by JST in or outside the country and for MS Goals and R&D concepts. In addition, we expect that global activities

- and publications will be proactively made in the course of the promotion of R&D activities.
- (6) Understanding in advance that JST will provide the required information, such as the R&D project name, participants, and consignment cost, to the Cross-ministerial R&D Management System (e-Rad) and the Cabinet Office (section 4.35, "The handling of information on e-Rad). In addition, we may ask that each type of information be provided.
- (7) There are cases in which a tracing evaluation will be conducted after a certain period has passed after the end of an evaluation or the like in relation to this program and/or after the R&D project. On such occasions, you are asked to provide each type of information or participate in interviews.

3.8 Items the R&D institutions etc. should pay attention to in particular

The R&D institutions etc. must sufficiently recognized that the original funds of the funds for the consigned R&D are public funds while the R&D project is implemented and, thus, try to implement the R&D projects efficiently. The R&D institutions etc. that cannot fulfill their responsibilities listed below are not allowed to implement PM activities or to implement the R&D.

- (1) In the case in which the R&D institution, etc. are domestic organizations based in Japan
 - a. The R&D institutions etc. must, in principle, enter an R&D agreement with the contents presented by JST. In addition, they are obligated to implement R&D appropriately. They must follow the implementation regulations, the R&D agreement, the instructions for the clerical processes, and the R&D plan. If it is not possible to enter an R&D agreement, or if it is judged that the/or the R&D institutions etc. cannot let or lets the PM activities and/or the R&D be implemented appropriately, the implementation of PM activities and R&Ds at the applicable/or the R&D institutions etc. are not allowed.
 - *For the R&D agreement template, access the following website:

 https://www.jst.go.jp/contract/download/2025/2025_moonshot_keiyakusho.pdf
 - b. The R&D institutions etc. need to make efforts for the appropriate execution of

the Research funds after organizing a management and audit organization for the public R&D cost on the responsibility of the R&D institution etc. on the basis of the Guidelines for the Management and Audit of Public Research Funds In Research Institutions (practice standards) (decision, Minister of Education, Culture, Sports, Science and Technology, February 15, 2007; revised on February 1, 2021). Furthermore, R&D institutions etc. are obliged to make report periodically to MEXT on the status of the implementation of organizing the organizations etc. in relation to the management and the audit of public Research funds and to correspond to each type of surveys in relation to organizing organizations etc. (section 4.29, "Guidelines for the management and audit of public research funds in research institutions (practice standards)."

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

c. R&D institutions need to make efforts for the prevention of misconducts after organizing necessary regulations and organizations on the responsibility of the R&D institutions etc. on the basis of the Guidelines for Responding to Misconduct in Research (decision, Minister of Education, Culture, Sports, Science and Technology, August 26, 2014). The R&D institutions must prevent misconduct after they have organized the necessary regulations and organizations. The responsibility of the representative and R&D institutions is based on the Guidelines for Responding to Misconduct in Research (decision, Minister of Education, Culture, Sports, Science and Technology, August 26, 2014). The R&D institutions must respond to each type of organizational survey in the guideline (section 4.33, "Guidelines for responding to misconduct in research").

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

- d. The R&D institutions etc. are obliged to have the participants in the R&D projects fully recognize the contents of the guidelines described in items "b" and "c" above and to have them learn from the educational materials in relation to the research ethics designated by JST.
- e. The R&D institutions etc. need to appropriately make payment and take management by following the regulations of the institutions and the R&D institutions with consideration also to flexibility and to follow the applicable rules

with respect to the items for which the rules specific to Moonshot R&D are provided in the (JST) official administration manual defined by JST while executing the R&D funds. The representative and R&D institutions that receive a subsidy for scientific research funds can conform to the handling of the scientific research funds at their leader's institutions and R&D institutions with respect to the items on the usage of R&D funds not described in the (JST) official administration manual.

f. The R&D institutions etc. need to make a contract with the participants in the R&D project to the effect that the intellectual property rights that may accrue by the implementation of the R&D belong to the applicable R&D institutions etc., or to organize the work regulations to define provisions to that effect. In particular in the cases in which a student or students that is or are not in the relationship of employment with the R&D institutions etc. becomes or become a participant or participants in the R&D project, it is necessary to make necessary arrangements such as making a contract etc. with the applicable student or students in advance so that the intellectual property rights in relation to the invention (including devices and the like) made by the applicable student or students in the course of the implementation of this R&D project belong to the research and development institutions except for the cases in which the student or students clearly cannot be an inventor or inventors. Further, with respect to the conditions for transferring the rewards of intellectual property rights, the R&D institution must take measures to prevent disadvantaging student-inventors.

If the right to transfer or implement exclusively is established for the applicable intellectual property right, it is necessary to acquire approval from JST in advance. If filing an application or a patent, registering such establishment, or making a waiver is applicable, the R&D institution must submit a report to JST.

- g. The R&D institutions etc. are obliged to correspond to the accounting audit by JST, the audit by a national government, or the like.
- h. The R&D institutions etc. in the cases in which JST makes designation depending on an investigation on the organization for the clerical management, the status of accounting, or the like, need to follow the procedures of changing the method of payment of the R&D funds, the reduction of the consigned R&D cost, or the like.

When the liquidation or downsizing of JST is necessary due to an assessment at the end of JST's mid- and long-term targets, or when revisions arise in the budgetary policies of the national government, we may cancel a contract before its expiration or reduce the R&D funds based on the special provisions in the R&D agreement. Based on the results of an evaluation of an R&D project, we may increase or reduce the R&D funds, change the period of a contract, terminate the research, or take other measures. If JST judges that continuing the R&D project is inappropriate, we may cancel the contract or take other measures even during the contract period. The R&D institutes etc. need to follow those instructions.

- i. If the applicable R&D institutions etc. are the national government or a local government, when making an R&D agreement, they need to make sure to implement the procedure for necessary budgetary measures by the start of the R&D development agreement on the responsibility of the R&D institutions etc. (If a fault in a necessary procedure is revealed after making the contract, the R&D agreement will be canceled, the R&D funds will be returned, and other measures may be taken.)
- J. As part of the efforts to prevent misconduct in PM activities and R&D activities, JST mandates that researchers who are participating in newly adopted R&D projects and are affiliated with research institutions, etc., complete one of the following programs or materials:
- "eAPRIN" provided by the Association for the Promotion of Research Integrity
- "eL CoRE" provided by the Japan Society for the Promotion of Science
- "For the Sound Development of Science" by the Japan Society for the Promotion of Science
- "Responsible Research Practices to Learn from Cases
- A Casebook to Instill Awareness and Learning –" by the Japan Agency for Medical Research and Development
- "A Compendium of Near-Miss Incidents Related to Research Integrity" by the Japan Agency for Medical Research and Development
- Other research ethics education programs and training deemed equivalent by the

affiliated research institution

(If deemed equivalent by the research institution, JST's video "Gaps in Ethics" is also acceptable.)

If it is difficult to attend a program on research ethics education at the affiliated institution, such as when the institution does not conduct any programs on research ethics education, it is possible to take the eAPRIN (e-learning materials operated by the Association for the Promotion of Research Integrity (eAPRIN)) through JST.

For this purpose, if the applicable researcher or the like does not fulfill the obligation to finish the study course in spite of the reminder from JST, JST will instruct the R&D institutions etc. to suspend the whole or part of the R&D funds. In these cases, the execution of the R&D funds should be suspended as instructed, and do not resume the payment of the R&D funds until another instruction is made.

- k. The R&D institutions etc. should provide measures, such as making a joint R&D agreement with other R&D institution to which the Performer belongs. It should not violate the R&D agreement with JST or the implementation regulations for handling intellectual property rights and maintaining secrecy. Ensure that there are no issues with the implementation of the R&D project, the use of the R&D results, or the like.
- I. As the funds for consigned R&D are originally public funds, please pay careful attention to the economy, efficiency, efficacy, legal adherence, and accuracy of their utilization, and ensure that they are handled appropriately in a way that establishes accountability. Please strive for systematic utilization, and be alert so that the R&D institutions can ensure that there is no procurement of materials at the end of the research period or the end of the fiscal year with the aim of using up the budget.

(2) If the R&D institutions are overseas organizations

a. The R&D institutions should enter into an R&D agreement using JST's joint research agreement template. Indirect cost is 30% or less of direct cost. In addition, they are obligated to implement the R&D appropriately by following the R&D agreement and the R&D plan. If it is not possible to enter into an R&D agreement within three

months after adoption, or if it is judged that the research at the applicable R&D institution cannot be conducted appropriately, the implementation of the R&D at the applicable R&D institution will not be permitted.

- b. The R&D institutions etc., on the basis of the applicable principles or the like if the R&D agreement and JST defines principles separately, are obliged to make payments and manage the R&D cost appropriately. It is the responsibility of the R&D institutions to prepare in English a breakdown of the costs and describe the contents of the payments from the R&D funds (equivalent to the list of expenditures of domestic institutions). In addition, the R&D institutions etc. need to correspond to each type of surveys in relation to the status of the payment in response to the request from JST even during the period of an agreement.
 - c. For further details on the conditions, please refer to the latest joint research agreement template.
 - * JST may judge that an R&D agreement should not be made to control security in trade for the institutions listed in the "Foreign User List**".

**See also: https://www.meti.go.jp/policy/anpo/law05.html#user-list

3.9 Other Considerations

3.9.1 Systems for Childbirth, Childcare, Care Giving

As part of its efforts to promote equal participation from men and women, JST has implemented support systems for childbirth, childcare, and care giving. This system provides a "Gender Equality Promotion Fund" (standard amount: 300,000 yen per month x number of months of support) for R&D projects, etc., with the aim of enabling full-time researchers who are employed through projects being funded by JST (not including indirect costs) to continue their research in the midst of life events (childbirth, childcare, nursing care), or to continue their careers from the time they return to research if they have to suspend their research.

See the website below for more details.

https://www.jst.go.jp/diversity/about/research/child-care.html

3.9.2 Using the JREC-IN Portal

The database of researchers and research staff (JREC-IN Portal https://jrecin.jst.go.jp) is

the largest website for recruiting researchers in Japan. The service contains information on human resources, including researchers, supporting staff, as well as engineers involved in research. The database is completely free to use.

The database currently holds more than 20,000 advertisements for roles at universities, public research organizations, and private business firms, and has more than 140,000 registered users. Using JREC-IN Portal's online application functionality also simplifies the management of application documents and reduces the burden on job seekers. We hope you'll make use of the JREC-IN Portal to search for human resources (postdoctoral, researchers, and so on) with high levels of knowledge when recruiting for research projects.

JREC-IN Portal is also integrated with researchmap, and through its resume and performance list creation features, enables easy preparation of application documents using information registered on researchmap.

Chapter 4 Instructions for proponents

4.1 The Use of Generative AI

When using generative AI to create application documents, there are risks such as copyright infringement or the leakage of personal or confidential information.

Researchers should understand these risks and decide whether to use such tools at their own discretion.

4.2 Completing the course on research and ethics education

To apply to this program, proponents need to have completed a course on research and ethics education. Note that if we cannot confirm their finishing the course, we will regard their applications as not having satisfied the requirements.

Take the course on research and ethics education and apply for the procedure to declare your completion by following either one of Items (1) and (2) below. See Chapter 5, "How to use the cross-ministerial R&D management system (e-Rad) for your application," for how to input information.

(1) If the proponents have completed the program at the organization to which they belong

If an e-learning or training session, such as a course on each type of research ethics education (including eAPRIN, formerly CITI), has been finished at the time of applying, then use the e-Rad application information input screen to declare that the proponent has finished the program.

- (2) If a program has not been completed at the organization to which the proponent belongs (including when no such program is provided by the organization to which the proponent belongs)
 - a. If eAPRIN (formerly CITI) has been finished in a JST project in the past

 If an eAPRIN (formerly CITI) has been finished in a JST project at the time of the application, then use the e-Rad application information input screen to declare the proponent has finished the program.
 - b. Other than "a" above

If it is difficult to take a course on research ethics education at the organization to which the proponent belongs because, for example, such a program is not provided at the organization, the proponent can take a digest version of eAPRIN (formerly CITI) via JST. For how to take the course, access the website of the call for research proposals.

Website of the call for research proposals

https://www.jst.go.jp/moonshot/en/application/index.html

Access the following URL to take a course.

https://edu2.aprin.or.jp/ard/

It takes roughly one to two hours to take a course, and you do not need to pay for it. After completing the course and completing it promptly, please enter "Digest version completed" on the e-Rad application information.

■ The inquiry office for the contents of the programs on research and ethics education Research Integrity Section, Audit and Legal Affairs Department, Japan Science and Technology Agency

E-mail: rcr-kousyu@jst.go.jp

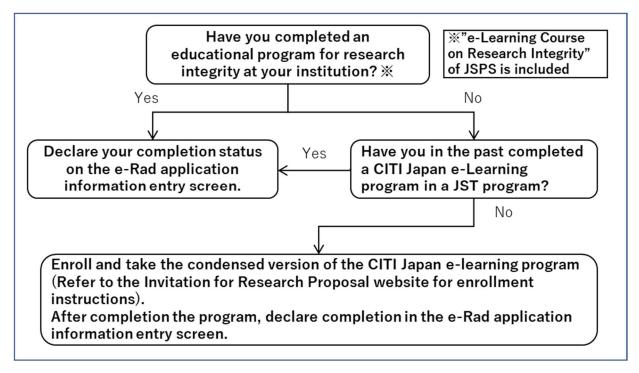
■ The inquiry office for the call for research proposals

Department of Moonshot Research and Development Program, Japan Science and

Technology Agency

E-mail: moonshot-koubo@jst.go.jp

* Write, in the body of the email, the title of the call program, the projectID on e-Rad, the name of the proponent, and the title of the R&D project. Also, make sure to write "[2025 PM (MS●)]" (● is the target number) in the subject.



The flowchart for completing a course on research ethics and declaring the completion of a course

JST also requires the completion of one of the following programs or materials for researchers participating in this project:

- "eAPRIN" provided by the Association for the Promotion of Research Integrity
- "eL CoRE" provided by the Japan Society for the Promotion of Science
- "For the Sound Development of Science" by the Japan Society for the Promotion of Science
 - "Responsible Research Practices to Learn from Cases
- A Casebook to Instill Awareness and Learning –" by the Japan Agency for Medical Research and Development
- "A Compendium of Near-Miss Incidents Related to Research Integrity" by the Japan Agency for Medical Research and Development
- Other research ethics education programs and training deemed equivalent by the affiliated research institution

(If deemed equivalent by the research institution, JST's video material "Gaps in Ethics" is also acceptable.)

If it is difficult to attend a program on research ethics education at the affiliated institution, such as when the institution does not conduct any programs on research ethics education, it is possible to take the eAPRIN (e-learning materials operated by the Association for the Promotion of Research Integrity (APRIN)) through JST

The same approach will be taken in the next fiscal year; therefore, if the project is adopted, all research participants will be required to complete one of the above-mentioned research ethics education programs or materials designated by JST (except for those who have already completed one of the above-mentioned programs or materials designated by JST through their affiliated institution or JST projects).

4.3 Restrictions on multiple applications

In relation to the call of Moonshot R&D, the following restrictions were applied to multiple applications.

As for the other programs in and outside JST, certain measures may be taken if it is judged that an irrational duplication or an extreme convergence is made. For the details, see section 4.4, "Measures for irrational duplications and extreme convergences.

- (1) No one proponent is allowed to make applications of two or more R&D projects for the same MS Goal.
- (2) Anyone who is already a PM for MS Goals (1-9) for which R&D projects have already begun are not allowed to apply for this call for MS Goal 10 PMs. Application forms that do not meet this requirement will be considered incomplete and will not be accepted.
- (3) In the case in which you plan to participate, as a PM or a performer, in the proposal for two R&D projects or more and two or more of the R&D projects are adopted, we may make adjustment, depending on the judgment of a PD, after considering the contents, the scale, etc. of the R&D, for the reduction of the R&D cost and for not allowing the participations in some problems among the R&D project in which the

applicable researcher participate.

[Reference]

Table: Eligibility for applications and planning for R&D projects

Position in the	DM	Dayfayyay
Proposed Project	PM	Performer
Position in other	(Proponent)	(Note1)
Moonshot project		
PM	X (Note2)	✓ (Note4)
Performer (Note 1)	✓ (Note3, 4)	✓ (Note4)

- (Note 1): The MS Goals (1, 2, 3, 6, 8, 9,10) driven by JST define a "Performer" as someone "who manages the assignments for the researches and developments entailed in the R&D projects, as instructed by the PM, to achieve the MS Goals and embody the R&D concepts." This definition of "Performer" also applies in the case of the MS Goals (4, 5, 7) handled by other funding agencies.
- (Note 2): However, you may apply if you do not expect to be the PM for more than one project in the same period of time.
- (Note 2): We will also evaluate whether the requirements described in "Appendix 1 (Goal ●) (● is the selected goal number) 6.1 Requirements that proponents as PM candidates are expected to have" are fully satisfied, such as allresponsibilities of the R&D project must be undertaken for all periods of the R&D project's implementation.
- (Note 3): Once you are allowed to participate in the project after selection, any extreme convergences or irrational duplication will be taken into consideration, and, based on the PD's judgement, you may be subject to adjustments such as the research funds for the project being reduced or applied to only one of the research projects you are carrying out.

4.4 Measures for irrational duplications and extreme convergences

OThe measures for irrational duplications

In the event that multiple competitive research grants or other research funds (all research funds from inside and outside Japan, including grants, subsidies, joint research funds, and consigned research funds that are currently allocated to individual research

projects*) are unnecessarily distributed through duplication to the same research being undertaken by the same researcher, if any of the following applies, the research will not be adopted, its adoption will be cancelled, or the distribution of funds will be reduced (hereinafter, "non-adoption of research problems, etc."), depending on the extent of duplication.

- Applications are made at the same time for two or more competitive funds for practically the same research (including the cases in which considerable duplication is made; the same applies to the following) and are adopted
- Applications are redundantly made for practically the same research that has been already adopted, and competitive funds have been already distributed
- There is duplication in the purpose of the research funds among two or more research
- Other cases similar to the above

Applications for other competitive funds are not restricted in the application phase for this program; however, if an application is adopted for any other competitive funds, quickly report to the office personnel of this program. Any omission in this application may result in the rejection of the research proposal or other action under this project.

Excluding basic expenses or internal funds that are distributed within your institution, commercial activities as prescribed in the Commercial Code, and funding through direct or indirect finance.

O The measures for extreme convergences

Depending on the degree of the challenge, research subjects may fail the selection process, even if the contents of an R&D proposal for this program and an R&D project implemented using another competitive funds differ, if the total of the R&D funds distributed in the applicable fiscal year to the applicable researcher or R&D group (referred to as "researcher group" from here) exceeds the limit that can be used effectively and efficiently, the amount is not used entirely within the R&D period, or any of the following applies.

 If excessive R&D funds have been distributed to the researcher group and the R&D method

- If the R&D funds distributed to the applicable R&D exceeds the researcher's effort (the ratio (%) of the time necessary to implement the applicable R&D with respect to the total time* of the work of the researcher)
- If an unnecessarily expensive R&D facility is purchased
- Other cases similar to the above

If the contents described in the proposal to this program should be altered after it is submitted because, for example, another application is made for another competitive funds and is adopted, quickly report to the office personnel of this program. If this report is omitted, the decision of the adoption in this program may be canceled.

*The time for research activities and teaching, management assignments, and other activities substantially equivalent to work is included in the total work time of a researcher.

OMethods of elimination of irrational duplications and extreme convergences

To confirm that adequate efforts can be ensured while eliminating irrational duplications of competitive research funds and extreme convergences and ensuring transparency in research activities, you will be asked to provide the following information when you submit an application.

(i) Information on the current status of application for and acceptance of other competitive research funds, including those granted by other ministries and agencies, and on all current affiliated institutions and positions.

When applying, PMs and Performers will be asked to provide information on the current status of application for and acceptance of other competitive research funds, including those granted by other ministries and agencies (name of the program, research title, implementation period, budget, efforts, etc. (hereinafter, "information on research funds")), and on all current affiliated institutions and positions (including side jobs, participation in foreign personnel recruitment programs, emeritus professorships without employment contracts, etc. (hereinafter referred to as "information on affiliations and positions")) in the application documents and in the Cross-ministerial R&D Management System (e-Rad). If any false information is

included in the application documents or in e-Rad, the R&D project may not be adopted. Within the information on research funds, information related to joint research, etc.

for which confidentiality agreements, etc. have been exchanged will be handled as follows, taking individual circumstances into consideration so that collaborative industry-academia activities, etc. are not curtailed.

- You will only be asked to provide information which is necessary to ensure that the R&D project applied for does not create irrational duplication of research funds or extreme convergences and to ensure adequate efforts with relation to carrying out the R&D project (in principle, the names of partner institutions involved in joint research, etc., the amount of research funds received, and information related to the efforts).
- However, if there are any issues with submitting this information due to unavoidable circumstances, for example based on the details of a previously concluded confidentiality agreement, an application may be submitted without including the names of partner institutions and the amount of research funds received. Note that even in this case, we may make an inquiry with your affiliated institution if necessary.
- In addition to your affiliated organization, information may also be shared with research fund allocation institutions and relevant ministries and agencies, but even in such cases, such information will only be shared to those who are obligated to maintain confidentiality.

Note that when concluding confidentiality agreements, etc., in the future, we ask you to consider including the condition that information, limited to what is necessary, will be submitted when applying for competitive research funds. Please note, however, that it is also possible to conclude an agreement that does not include a condition to submit such confidential information, as long as both parties to the agreement agree on the scope of information to be kept confidential and the justification for doing so (e.g., information that is critical for corporate strategy and is considered to be highly confidential in nature, etc.).

(ii) Other information necessary to ensure transparency with regard to all research activities you are involved with.

In addition to information on research funds and on your affiliated organization and

position, you will be asked to make a pledge that you are appropriately reporting to your organization all information necessary to ensure transparency with regard to all research activities you are involved with, including donations and support other than funds for facilities or equipment, etc.,* in accordance with the relevant rules and regulations. If it is found that information is not being appropriately reported in violation of the pledge, the research project may not be adopted, etc.

With regard to information on the acceptance status of facilities and equipment, etc. that are not being used for the proposed R&D project but are being used for other research the proponent is engaged in, in addition to the pledge, your affiliated organization may be asked to provide information on its understanding of the situation from the standpoint of ensuring that no irrational duplications or extreme convergences are created and that the R&D project can be carried out adequately.

*Including cases where the provision of goods such as research facilities, equipment, or devices or services is received without compensation.

O Providing information on the contents of an application to prevent irrational duplications and extreme convergences

In order to prevent irrational duplications and extreme convergences, we provide information, within the scope necessary, on part of the contents of an application to the personnel in charge of other competitive funds including other governmental bodies by way of the Cross-ministerial R&D Management System (e-Rad).

4.5 Ensuring research integrity and research Security with regard to new risks associated with the internationalization and opening up of research activities

In order to promote the creation of science, technology, and innovation in Japan, it will be necessary to continue to vigorously pursue international collaborative research with diverse partners, with open science as the basic underlying principle. At the same time, in recent years, new risks associated with the internationalization and the opening up of research activities have raised concerns that openness and transparency, the values upon which the research environment is based, may be undermined, and that researchers may become unintentionally ensnared in conflicts of interest or responsibilities. Amid these circumstances, it is essential that Japan establishes a research environment that has

international credibility in order to pursue the international cooperation and exchange which is necessary while also preserving the fundamental values of the research environment.

To that end, based on the "Policy for Ensuring Research Integrity with Regard to New Risks Associated with the Internationalization and Opening up of Research Activities" (decided by Council for Science, Technology and Innovation on April 27, 2021), universities and research institutions, etc. should develop relevant rules and management systems, including for conflicts of interest or responsibilities. It is important for researchers and universities and research institutions, etc. to take independent actions to ensure the soundness and fairness of research (research integrity).

From this perspective, we will confirm that adequate efforts can be ensured along with eliminating irrational duplications of competitive research funds and excessive convergence and ensuring the transparency of research activities, and in addition, inquiries may be made to your affiliated organization as necessary regarding the status of relevant rules and its understanding of the situation.

4.6 Security Export Control (Measures against Leakage of Technology internationally)

Many cutting-edge technologies are being researched at the institutions. Particularly at universities, there is a heightened risk of leakage of advanced technologies and research-related materials/equipment or misuse in development/manufacture of weapons of mass destruction owing to the increased number of international students and foreign researchers due to internationalization. For this reason, an organizational response by the research institution is required when a research institution conducts research activities, including the relevant contract research, so that research results with potential military applications are not passed to groups or individuals considering activities of concern, such as terrorist groups and developers of weapons of mass destruction.

In Japan, export controls (*1) are imposed based on the Foreign Exchange and Foreign Trade Act (Act No. 228 of 1949; hereinafter, "Foreign Exchange Act"). Accordingly, when attempting to export (provide) goods or technologies controlled under the Foreign Exchange Act, in principle, a license from the Minister of Economy, Trade and Industry (METI) is necessary. All those participating in this program must comply with the Foreign

Exchange Act and all other laws, ordinances, guidelines, notifications, etc. of the national government. In addition to legal action and penalties, distribution of research funds may be stopped and the decision to allocate research funds may be cancelled if research is conducted in violation of the relevant laws, ordinances, guidelines, etc.

- * 1 Currently, Japan's security export control system, based on international agreements, consists of the following two primary regulations:
- (1) List Regulation: This system requires the approval of the Minister of Economy, Trade, and Industry, in principle, for the export (provision) of goods (technology) that have certain specifications or functions, such as carbon fibers and numerically controlled machine tools.
- (2) Catch-all Regulation: This system requires the approval of the Minister of Economy, Trade, and Industry for the export (provision) of goods (technology) not covered by the List Regulation when certain conditions (usage requirements, end-user requirements, or inform requirements) are met.

Not only the export of cargo but also the provision of technology is subject to the regulation of the Foreign Exchange Law. When providing list regulation technology to non-residents (including residents who fall under a specific type (* 2)), or when providing it in a foreign country, prior to the provision. Permission required. To provide technology, we provide technical information such as design drawings, specifications, manuals, samples, and prototypes on storage media such as paper, mail, CD, DVD, and USB memory, as well as technical guidance and skills. It also includes the provision of work knowledge through training and technical support at seminars.

Additionally, please be aware that interactions involving technology that may be subject to the Foreign Exchange and Foreign Trade Act regulations can often be included in activities such as accepting international students or participating in joint research. If you intend to provide technology, etc., acquired through this project, or if you plan to provide technology, etc., that you already possess utilizing this project, those may also be subject to regulations.

Please note that students receiving funding for studying abroad from foreign

governments might be considered as specific types of residents under export control regulations of the Foreign Exchange and Foreign Trade Act, even if they are residents. Therefore, receiving institutions should appropriately understand the scholarship status of international students.

* 2 Refers to the type of resident who is strongly influenced by non-residents, and it is permitted based on the provisions of Article 25, Paragraph 1 of the Foreign Exchange and Foreign Trade Law and Article 17, Paragraph 2 of the Foreign Exchange Ordinance. Transactions or acts that provide technology that requires "1. (3) Refers to the specific types specified in (1) to (3).

Based on the Foreign Exchange Law, it is necessary to establish a security trade management system when exporting list-regulated cargo or providing list-regulated technology to foreign countries (* 3). Therefore, by the time of contract conclusion, we may need to confirm whether the provision of goods and technologies subject to export control under the Foreign Exchange and Foreign Trade Act is planned for this project. If there is an intention to provide such goods and technologies, we may also need to confirm the existence of a management system.

If you are willing to provide and do not have a management system, we request that you establish a system by the earlier of provide or the end of this project. The confirmation status may be reported at the request of the Ministry of Economy, Trade and Industry.

In addition, if it is found that the technology acquired through this project violates the regulations related to the Foreign Exchange Law, the contract may be canceled in whole or in part.

* 3 Exporters, etc. are obliged to comply with the "Exporter Compliance Standards" stipulated in Article 55-10, Paragraph 1 of the Foreign Exchange Law. In addition, the security trade management system here is based on the management system in the "Exporter Compliance Standards", and by appropriately exporting list-regulated cargo or providing list-regulated technology to foreign countries. The internal control system of an organization to prevent illegal exports.

Details of security trade management are available on the websites of the Ministry of Economy, Trade and Industry. See below for details.

- Ministry of Economy, Trade and Industry: Security Trade Management (general)
 https://www.meti.go.jp/policy/anpo/
- Ministry of Economy, Trade and Industry: Handbook of Security Trade Management https://www.meti.go.jp/policy/anpo/seminer/shiryo/handbook.pdf
- Ministry of Economy, Trade and Industry: Guidance on sensitive technology management related to security trade (for universities and research institutions)

https://www.meti.go.jp/policy/anpo/law_document/tutatu/t07sonota/t07sonota_jishu kanri03.pdf

- Center for Information on Security Trade Information
 https://www.cistec.or.jp/export/jisyukanri/modelcp/modelcp.html
- Information about Transactions or Acts that Provide Technologies that Require Permission Pursuant to the Provisions of the Foreign Exchange and Foreign Trade Act Article 25 Paragraph 1 or the Foreign Exchange Order Article 17 Paragraph 2

https://www.meti.go.jp/policy/anpo/law_document/tutatu/t10kaisei/ekimu__tutatu.p
df

[Transfer of Intellectual Property Rights Abroad in Commissioned R&D under the Japanese Version of the Bayh-Dole Act]

On June 4, 2024, the Expert Council on Economic Security Legislation discussed necessary measures for preventing technology leakage and risk management in research and development programs supported by the government. The discussion resulted in the "Recommendations on Measures to Prevent Technology Leakage for Important Technologies in Economic Security - Measures in Research and Development Programs Supported by the Government."

In response, it is essential for relevant ministries, agencies, and organizations to work together to implement measures to prevent technology leakage.

The proposal includes provisions related to the operation of the Japanese version of the Bayh-Dole Act under Article 17 of the Industrial Technology Enhancement Act. The Japanese version of the Bayh-Dole Act allows the intellectual property rights arising from

national commissioned R&D to be attributed to the contractor (e.g., private companies). However, when transferring such intellectual property rights from the contractor to a third party, prior approval from the government is required, except for transfers to subsidiaries or parent companies.

Therefore, in cases such as:

- 1. When a Japanese subsidiary of a foreign company transfers intellectual property to its parent company
- 2. When a subsidiary of a domestic company becomes a subsidiary of a foreign company through M&A, resulting in business sale/transfer to the foreign company
- 3. When the headquarters of a domestic company moves abroad, becoming a foreign company

It might not be possible to prevent the outflow of R&D results commissioned by the government to foreign entities.

In light of this, the proposal emphasizes that when transferring intellectual property to parent or subsidiary companies that are foreign entities, prior notification from the contractor is required. JST must confirm such prior notifications and ensure proper coordination between contractors.

Therefore, in this project, the contents of the proposal will be reflected in the commissioned contract. We request that you strictly ensure to provide prior notification to JST and obtain approval when transferring intellectual property to foreign companies, etc., in accordance with the contract terms.

4.7 Strict Adherence to United Nations Security Council Resolution No. 2321

In response to the nuclear test and repeated launching of ballistic missiles by North Korea in September 2016, The United Nations Security Council (hereinafter referred to as "Security Council"), adopted Security Council Resolution No. 2321 on October 30, 2016, that substantially increased and strengthened sanctions against North Korea. Accordingly, the Ministry of Education, Culture, Sports, Science and Technology (MEXT) issued the Request for Strict Adherence to United Nations Security Council Resolution No. 2321 (2016 MEXT document No. 98) on February 17, 2017.

"Scientific and technical cooperation" in the section 11 in the main text of the Resolution

is not limited to technologies regulated under the Foreign Exchange and Foreign Trade Act, but includes all cooperation with the exception of medical exchange. Accordingly, it is important to remember that the research institution must adhere to this Resolution in all research activities, including the relevant commissioned research.

See the following link for more information on Security Council Resolution No. 2321.

Ministry of Foreign Affairs of Japan: United Nations Security Council Resolution No. 2321, Japanese translation (Ministry of Foreign Affairs Notice No. 463 (issued on December 9, 2016))

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

4.8 Carrying over

In the case that a multi-year contract will continue until the following fiscal year, Carry-overs may be allowed up to the end of the next fiscal year at the latest if it proves difficult to complete the expenditures within the fiscal year because it is unavoidable. It may be due to the difficulty of the investigation before a research test or in the decision on the R&D method, various conditions for plans, the weather, difficulty in procuring materials, or other reasons.

4.9 Cross-ministerial expenses handling partitioned table

In this program, the cost structure is determined based on the cross-ministerial cost categorization table that is to be commonly used for competitive funds. For the handling of costs, please refer to the website including the information of cross-ministerial cost categorization table.

(for universites) https://www.jst.go.jp/contract/moonshot/2025/moonshota.html
(for companies) https://www.jst.go.jp/contract/moonshot/2025/moonshotc.html

In response to the "The 6th Science, Technology, and Innovation Basic Plan", "Integrated Innovation Strategy 2023, and the "Comprehensive package to strengthen research capacity and support young researchers," the system for competitive research funding is being improved. Based on this, the project is intended to subsidize a PM and Performer in the payment of personnel cost and costs for delegated work other than research (buyout

costs) from direct costs. (**For details, see "3.4.1 Direct costs.) Regarding the payment of a PM and Performer's personnel cost and costs for delegated work other than research (buyout costs), check the below for requirements and information on procedures.

Furthermore, based on the "Common Guidelines for the Development of Competitive Research Funding Systems from the Perspective of Gender Equality and Talent Development" (agreement of the meeting of ministries and agencies related to competitive research funds, February 8, 2023), this project allows for the expenditure of funds from direct costs towards promoting the development of talents in science and engineering fields who will lead the next generation.

○「競争的研究費の直接経費から研究代表者 (PI) の人件費の支出について」(令和2年10月9日) Expenditure of Personnel Expenses for Principal Investigators (PIs) from the Direct Expenses of Competitive Research Funds" (October 9, 2020)

https://www8.cao.go.jp/cstp/compefund/pi_jinkenhi.pdf

○「競争的研究費の直接経費から研究以外の業務の代行に係る経費を支出可能とする見直し(バイアウト制度の導入)について」(令和 2 年 10 月 9 日)

Revision of the Direct Expenses of Competitive Research Funds to Allow Expenses for Non-research Activities on Behalf of Researchers (Introduction of a Buyout System)" (October 9, 2020).

https://www8.cao.go.jp/cstp/compefund/buyout_seido.pdf

4.10 Diversion of expenses

The amount of funds that can be used for purposes outside the scope of an account title without approval from JST is 50 percent or less of the total direct cost.

4.11 Securing the R&D period until the fiscal year end

JST requires that researchers who have received competitive funds of any kind must complete the tasks listed below in order to continue their JST-funded research until the end of a fiscal year.

- (1) JST inspects the completion of the project and the achievements of the research.
- (2) Submit a report on the results of the accounting by May 31.

(3) Submit a report on the achievements of the research by May 31.

Each R&D institution should organize the necessary systems at the institution for those practices in order to secure the R&D period that continues at the end of a fiscal year.

4.12 Indirect costs

Institutions receiving indirect costs must, under the responsibility of the head of the research institution, create policies regarding the use of indirect costs and execute them in a planned and proper manner, ensuring the transparency of their use through explanations to researchers, among other means. Proper management of indirect costs must also be performed and receipts and other documents proving the appropriate use of indirect costs must be properly stored for five years from the fiscal year following the completion of the project.

Institutions that receive an allocation of funding for indirect costs must report the actual use of indirect costs for each fiscal year by June 30 of the following fiscal year via e-Rad. (if an R&D institution have acquired two or more competitive funds, report all indirect costs from such competitive funds). If you do not know how to operate e-Rad for reporting, refer to e-Rad Operation Manual (https://www.e-rad.go.jp/manual/for_organ.html) or "Frequently Asked Questions" (https://qa.e-rad.go.jp/)

Due to the revision of the "Common Guidelines for the Execution of Indirect Costs of Competitive Research Funds" (agreement of the meeting of ministries and agencies related to competitive research funds, April 20, 2001), based on accounting standards it has become possible to use accumulated funds for the replacement of depreciated assets, limited to projects financed by funds or operational grants provided to independent administrative legal entities.

4.13 Promotion of sharing research facilities and equipment

According to the "Renovation on the Competitive Research Funds for the Continuous Creation of Research Achievements (Midterm Summary) (Examination Meeting on the Renovation of Competitive Funds, June 24, 2015), it is appropriate that relatively large-scale facilities and equipment that have high general-purpose performance should be, in principle, shared so that original research objectives can be sufficiently accomplished.

Moreover, the 6th Basic Plan for Science, Technology, and Innovation (March 26, 2021, Cabinet decision) and the Integrated Innovation Strategy 2023 (May 9, 2023 Cabinet decision) call for the promotion of the development and shared use of research equipment and facilities, the establishment of a system for implementing, upgrading, and utilizing systematic research equipment and facilities (development of core facilities), and the formulation and publication of shared-use policies.

The Ministry of Education, Culture, Sports, Science and Technology formulated the "Guidelines for Promoting the Shared Use of Research Facilities and Equipment" in March 2022, aiming to further strategic development, operation, and shared used of research facilities and equipment at universities, etc.

R&D institutions must endeavor to share the particularly large and general-purpose-performance research facility/equipment purchased for this program as long as it is within the scope of research and does not present obstacles to applicable research projects. This applies to research facility/equipment purchased with other research funds and for purchasing/sharing them; a total of two or more research funds based on what is stated above within the scope of the management conditions of other research funds. And when doing so, in order to strengthen research capabilities through the utilization of the latest research facilities and equipment, it is important to consider further shared use with the awareness that it is possible to do so even when the project has already started. Note the necessity to maintain a balance between the management of shared equipment/facility and the use for the achievement of the research objectives of an applicable research project.

Moreover, endeavor to cooperate with the "University Collaboration and Research Facility Networking Project," implemented for the nationwide mutual usage of the facilities by National Institutions of Natural Sciences, as well as the "Program for supporting introduction of the new sharing system" and "Program for supporting core facilities" used by universities to promote the joint use of research facilities and equipment beyond the framework of research organizations and R&D institutions.

• "Renovation on the Competitive Research Funds for the Continuous Creation of Research Achievements (Midterm Summary)" (Examination Meeting on the Renovation

of Competitive Funds, June 24, 2015)

https://www.mext.go.jp/b_menu/shingi/chousa/shinkou/039/gaiyou/1359306.htm

 "6th Basic Plan for Science, Technology, and Innovation" (March 26, 2021 Cabinet Decision)

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

- "Integrated Innovation Strategy 2023" [Cabinet decision (June 9, 2023)]
 https://www8.cao.go.jp/cstp/tougosenryaku/togo2023_honbun.pdf
- About unifying the rules for various office procedures of competitive funds" (Agreed upon by the coordination committees of relevant ministries and agencies on competitive funds, revised on May 24, 2023)

https://www8.cao.go.jp/cstp/compefund/toitsu_rule_r50524.pdf

Purchase of shared facilities under multiple research funding systems (combined use)
 (Agreed upon by funding agencies and relevant ministries and agencies, September 10, 2020)

https://www.mext.go.jp/content/20200910-mxt_sinkou02-100001873.pdf

 "Guidelines for Promoting the Shared Use of Research Facilities and Equipment" (formulated in March 2022)

https://www.mext.go.jp/content/20220329-mxt_kibanken01-000021605_2.pdf https://youtu.be/x29hH7_uNQo

- "University and College Cooperation Research Facility Network Project"
 https://chem-eqnet.ims.ac.jp/
- "Program for supporting introduction of the new sharing system"" Program for supporting core facilities"

https://www.jst.go.jp/shincho/program/pdf/sinkyoyo_brochure2020.pdf

4.14 Improving the treatment of doctoral students

The "6th Science, Technology, and Innovation Basic Plan" (determined by the Cabinet on March 26, 2021) sets out the numerical target of tripling the current number of students in the second half of their doctoral course who receive payment equivalent to living expenses (around 30% of students in the second half of their doctoral course are granted an amount roughly equivalent to living expenses) in order to enhance economic

support for graduate students, especially students in the second half of their doctoral course, so as to attract excellent students and mature students from within Japan and overseas. It states, "in order to promote the payment of salaries to doctoral students at an appropriate level as a research assistant (RA) from competitive research funds and joint research funds, the government will formulate rules for the payment of RA expenses relating to employment and remuneration for RAs at each R&D program and university, and implement them sequentially from FY2021," and demands wider employment and improved treatment of doctoral students as RAs, etc., in each university and R&D organization.

The "Guideline for the Employment and Education of Post-Doctoral Researchers" (Committee on Human Resources, the Council for Science and Technology, December 3, 2020) states that "Postdoctoral course students are also researchers in a sense, and therefore ensuring an environment and support system suitable for them is an important duty of the universities nurturing them," "it is especially important to set rewards according to the nature and contents of their work, pay them salaries according to their work hours under an appropriate work management and appropriately assess their research contribution," and "it is necessary at universities and other institutions that an proponent for a competitive research funding can request the subsidization of research assistant (RA) employment cost as a direct cost and also to review school provisions so that appropriate rewards are provided to RAS."

Based on these, it is recommended that doctoral course students necessary for implementing R&D in the project be proactively employed as RAs, unit prices be set according to the nature and contents of their work and their salaries be paid according to work hours under an appropriate work management. When applying for this program, you should include the amount of salary paid to these doctoral students in the financial planning.

 In the 6th Science and Technology Basic Plan, an annual salary of JPY 1.8 million is reasonable for covering living expenses, as well as the research incentive allocated to the researcher in the Research Fellowship for Young Scientist (DC) to allow outstanding Ph.D. students to concentrate on their research without feeling financial anxiety.

- Regarding the treatment of post-doctoral students for implementing the research project, the "Guideline for the Employment and Education of Post-Doctoral Researchers" states that "considering the average salary of specially appointed assistant professors employed through competitive research funds, an hourly payment of 2,000 to 2,500 yen*should be the standard salaries of such students."

 *In view of the average salary of specially appointed assistant professors employed through competitive research funds, it is conceivable that a payment of 2,000 to 2,500 yen an hour will become standard for doctoral students in the second half of their course. (In the "Employment Status of Instructional Staff at 18 Research Universities (quick summary edition)" published in August 2020, the average monthly salary of specially appointed assistant professors was in the 400,000–450,000 yen range. These figures were divided by the working hours (7 hrs. 45 min to 8 hrs.) of actual working days (19 to 20), excluding holidays, etc., then, considering the status of second-half doctoral-course students, this was multiplied by 0.8.)
- The actual amount of salary and payment period will be decided by the R&D institution. It does not limit payment above or below the above levels.
- When hiring students as RAs, etc., you need to avoid excessively long working hours and consider the balance between the work and study/learning time of doctoral students.

4.15 Ensuring self-sustaining, stable research environment for young researchers

The "Guidelines for Hiring and Training of Postdocs, etc." (Council for Science and Technology Human Resources Committee, December 3, 2020) state that although there are many postdocs whose tenure is less than 3 years, too short a tenure can hinder career development, so it is necessary to secure a tenure that allows postdocts to concentrate on their research activities for a certain period of time, and that considering that it is desirable for postdocs to get experience at one or two locations, and then move on to the next stage by their mid-30s, in which tenure changes from 3 years to 7 years, ideally each post should have a tenure between 3 and 5 years.

In regard to national university corporations and inter-university research institute

corporations, "Guidelines for reform of personnel and salary management in national university corporations, etc. -Toward building attractive personnel and salary management effective for improving education and research capabilities-" (Ministry of Education, Culture, Sports, Science and Technology, February 25, 2019) states "To meet two requirements, "fostering young teachers and securing stable employment," it is desired to promote an institutional design which takes into account the development of researchers while maintaining mobility, for example, by securing a certain period of employment, in the order of 5 to 10 years, even in fixed-term posts using highly flexible expenses such as indirect costs or donations."

Based on these points, when the project in this program hires young researchers such as research assistants or postdocs, a certain period of employment (5 years or more) should be ensured as much as possible with an attempt to secure the period up to the stage-gate as the length of term by using external funds including indirect costs, basic research funds and donations, etc. while making confirmation with the personnel and accounting staff at the administrative departments.

4.16 The Promotion of Efforts towards Gender Equality and Talent Development

In line with the "Science and Technology Basic Plan (Cabinet decision on March 26, 2021)," the "Basic Plan for Gender Equality (Cabinet decision on December 25, 2020)," and the "Policy Package for Education and Talent Development towards the Realization of Society 5.0 (Council for Science, Technology, and Innovation decision on June 2, 2022)," efforts are being made to create research environments that facilitate the continuation of research activities by both men and women even in the event of life events such as childbirth, childcare, and caregiving, and to promote the appointment of outstanding female researchers as project leaders. Additionally, initiatives to convey the appeal of science and technology to female junior and senior high school students, including parents and teachers, are aiming to increase the percentage of women advancing to master's and doctoral programs in science and and technology fields, overcoming the current situation where the rate of women advancing to doctoral programs in natural sciences is low, thereby increasing potential bearers of knowledge in Japan.

If gender differences are not considered in R&D processes where they should be, it could lead to unsuitable results at the social implementation stage. Therefore, R&D development

must be conducted in consideration of gender differences, such as differences in physique and the structure and function of the body.

Based on these considerations, efforts must also be made in the project to promote the active participation of female researchers and to expand the base of future talents in science and technology.

- R&D that does not consider gender differences, such as differences in physique and the structure and function of the body, might result in unsuitable results during societal implementation. Therefore, these efforts should be conducted with consideration of gender differences.
- Expenses related to science, physics, chemistry, etc., classes or outreach lectures at elementary, junior high, and high schools conducted online by doctoral degree holders in science and technology fields can be covered as direct costs.
- Expenses for distributing research results in a format easily understandable by junior and senior high school students via social media, etc., can also be covered as direct costs.
- It is possible to include achievements of the above two outreach activities in research reports. These will be eligible for a positive evaluation. Plans related to the above can also be included in research proposals and will be eligible for positive evaluation during the review.

4.17 Voluntary research activities of young researchers employed for implementing the project

On the basis of the "Policies for the Voluntary Research Activities of Young Researchers Employed for the Implementation of the Project with Competitive Research Funds" (policies concerning competitive research funds—policies agreed to at a liaison meeting of related ministries and agencies, revised on December 18, 2020), when an affiliation of an R&D Principal Investigator (PI) judges that young researchers employed from the budget of the R&D project should conduct voluntary research activities to contribute to the improvement of their own research and management capabilities, and that such activities will not become an obstacle to the promotion of the project, part of their efforts regarding the project can be allocated for the activities and their personnel cost regarding the activities can also be refunded from the budget.

Please see below for details.

"Implementation Policy for Voluntary Research Activities of Young Researchers Employed for Projects in Competitive Research Funds" [Agreement among ministries and agencies related to competitive research funds (Revised on December 18, 2020)] https://www8.cao.go.jp/cstp/compefund/jisshishin.pdf

4.18 Supporting various career paths for young researchers

One of the goals of the 6th Basic Plan for Science, Technology, and Innovation (March 26, 2021, Cabinet decision) is to create an environment in which excellent young people can envision career paths that will enable them to play an active role not only in academia, but also in a wide range of fields such as industry or the government. In addition, the "Guidelines for Hiring and Training of Postdocs, etc." (Council for Science and Technology Human Resources Committee, December 3, 2020) states that efforts to diversify career paths after the postdoctorial period are important, and that it is essential for doctoral candidates with advanced expertise and superior research skills to play an active role in a variety of fields including venture companies and global corporations, and to create innovations.

Based on the understanding of these circumstances, when the R&D project, adopted by this program, employs young researchers such as special-appointment or post-doctoral researchers with allocated public research funds (competitive funds, other project research funds, or public research funds for universities), special efforts for supporting these researchers to obtain diverse carrier paths are requested. Use of indirect costs for these efforts may be considered.

- Include in the proposal an action plan for supporting diverse career paths for young researchers employed with public research funds ("Career Support Action Plan") (for example, recommending participation in lectures conducted in collaboration with companies, long-term internships, networking events with companies, counseling, and active participation in research activities including in different fields). The Career Support Action Plan will be checked during the selection process.
- The expenses necessary for the development of young researchers' abilities are considered

fundamental expenses that support research activities. Based on this perspective, a portion of activities of young researchers that are part of the Career Support Action Plan outlined in the proposal can be incorporated within the research effort.

- During mid- and post-term evaluations, report the status of initiatives based on the Career Support Action Plan and the career paths of young researchers after the end of their time on the project. This content is also eligible for positive evaluation.

In evaluations, if young researchers participate in initiatives (e.g., lectures conducted in collaboration with companies, long-term internships, networking events with companies, counseling) conducted by public research institutions (including public research institutions other than the employer institution), in a manner that doesn't impact their research activities, this participation will be considered an initiative in place of direct career support by the research representative and is eligible for positive evaluation.

4.19 Securing URAs and other management personnel

The 6th Basic Plan for Science, Technology, and Innovation (March 26, 2021, Cabinet decision) points out that efforts to ensure the quality of the professional duties of university research administrators (URAs) and other management personnel and to improve their treatment are important so that they will become attractive positions. The "Comprehensive package to strengthen research capacity and support young researchers" (Council for Science, Technology, and Innovation January 23, 2020) also indicates the need to establish career paths for management personnel, URAs, engineers, and other human resources.

In light of the above points, when management personnel such as URAs, employed or newly employed by the research institution, engage in the management of the research program of this project, the research institution is encouraged to secure a contract period for these personnel that is the same as the research period and is not limited to this project. You are also encouraged to strive to ensure a certain length of employment by utilizing indirect costs from other external funds, foundational expenses, donations, etc., and prevent the employment period from being short-term wherever possible.

In addition, we ask that proactive efforts be made to support the career paths of these management personnel by having them participate in URA training, etc. Furthermore, please consider utilizing indirect cost for these efforts.

4.20 Promoting dialog with society and collaboration

According to "About the Promotion of 'Science/Technology Dialog with Citizens'" (Guideline for Basic Endeavors; decision by the minister of science and technology policies and the members of Diet with expertise, June 19, 2010), the attitude in which the excellent achievements of science and technology are constantly produced and the achievements of science and technology should be returned to our citizens to further develop science and technology in our country. If your proposal is adopted in this call and you accept 30 million yen or more of public funds a year per project (competitive or project research funds), You are asked to take a positive attitude toward the activities of this program, including the lecture sessions for citizens on research achievements, the continuous distribution of information on research achievements at the symposiums and over the internet, and at the roundtable conferences involving a variety of stakeholders.

(Informative) Promoting "Science/Technology Dialog with Citizens" (principles for basic measures)https://www8.cao.go.jp/cstp/stsonota/taiwa/taiwa_honbun.pdf

Furthermore, the "Sixth Science, Technology and Innovation Basic Plan" (Cabinet decision on March 26, 2021) calls for the co-creation of knowledge through the participation of diverse entities, including public engagement, and the strengthening of science and technology communication. Examples of platforms provided by JST for "bidirectional dialogue and collaboration in a bidirectional among diverse entities" include the following.

Science Agora

https://www.jst.go.jp/sis/scienceagora/

 The National Museum of Emerrging Science and Innovation https://www.miraikan.jst.go.jp/en/

4.21 Promoting Open Science

(1) JST's Open Science Policy

JST has formulated a foundational policy on the management of research outcomes to advance open science initiatives (initially implemented in April 2017, with subsequent

revisions in April 2022 and March 2025). This policy delineates the core principles governing open access to research publications and the preservation, management, and dissemination of research data arising from academic activities. In accordance with this policy, research outcome papers are generally expected to be made publicly accessible via institutional repositories and publications that adhere to open access guidelines.

Moreover, in alignment with the specific data policies of research institutions, a comprehensive Data Management Plan must be devised. This plan should detail the protocols for the preservation, management, and potential public release or non-disclosure of research data produced during the course of research activities (*1). Researchers are required to submit this Data Management Plan to JST upon request and to conduct their research in strict compliance with the plan, ensuring appropriate preservation, management, and sharing of the research data. The Data Management Plan may be subject to revisions as deemed necessary throughout the research process.

- JST's Basic Policy on the Handling of Research Outcomes for Promoting Open Science
- Operational Guidelines for JST's Basic Policy on the Handling of Research
 Outcomes for Promoting Open Science
- (*1) Items to be included in the DMP and metadata elements are described in these guidelines.

https://www.jst.go.jp/all/about/houshin.html#houshin04

- Research DX (Digital Transformation) Open Science (Cabinet Office)
 https://www8.cao.go.jp/cstp/kenkyudx.html
- Basic Perspective on the Management and Utilization of Research Data Funded by Public Funds (Integrated Innovation Strategy Promotion Conference)

https://www8.cao.go.jp/cstp/tyousakai/kokusaiopen/sanko1.pdf

 Common Metadata Elements in the "Basic Perspective on the Management and Utilization of Research Data Funded by Public Funds" (as of January 2025)

https://www8.cao.go.jp/cstp/common_metadata_elements.pdf

Furthermore, JST will analyze statistical data such as the number of data modules, types of data, types of publication, and storage locations, to comprehend the contents of

the Data Management Plan, support researchers, and inform any necessary revisions to the basic policy. While the analyzed statistical data will be made publicly available, individual personal data or identifiable information will not be disclosed. For specific guidelines regarding life sciences data, please refer to "6.22 About Data Disclosure from NBDC."

(2) Immediate Open Access for Academic Papers

The global trend toward open sharing of knowledge is advancing internationally. By promoting open access through the publication of academic papers, research outcomes are expected to be widely disseminated to the public, thus contributing to the advancement of science and technology, fostering innovation, and addressing global challenges.

In accordance with the "Basic Policy for Achieving Immediate Open Access to Academic Papers, etc." (as decided by the Integrated Innovation Strategy Promotion Conference on February 16, 2024) (hereinafter referred to as the "Basic Policy"), and the "Specific Measures for the Implementation of the Basic Policy for Achieving Immediate Open Access to Academic Papers, etc." (revised on October 8, 2024, by agreement of the relevant ministries and agencies) (hereinafter referred to as the "Specific Measures"), the call for proposals under this project will commence in FY 2025.

Peer-reviewed academic papers and accompanying data produced with the aid provided by this project must be promptly uploaded to the "Institutional Repository and Information Infrastructure" following their publication in academic journals. The "Institutional Repository and Information Infrastructure" refers to the platform that allows academic papers and supporting data to be searchable via the NII Research Data Cloud (*). Research outcome information submitted in the performance reports at the end of each fiscal year will be transferred to the Research Data Infrastructure System via e-Rad. Once the necessary information is provided, the research outcome information will become searchable within the Research Data Infrastructure System.

Additionally, to monitor the status of open access implementation, beginning in FY2025, performance reports and other documents for projects adopted under this program will require detailed information, including whether the work is subject to

immediate open access, whether immediate open access has been implemented, reasons for any difficulties in implementing immediate open access (if not implemented), and identifiers such as the URL of the landing page on the "Institutional Repository and Information Infrastructure" where the academic papers and supporting data are published.

Basic Policy for Achieving Immediate Open Access to Academic Papers, etc.
 (Decision by the Integrated Innovation Strategy Promotion Conference on February 16, 2024)

https://www8.cao.go.jp/cstp/oa_240216.pdf

Specific Measures for the Implementation of the Basic Policy for Achieving
 Immediate Open Access to Academic Papers, etc. (Revised on October 8, 2024, by
 Agreement of the Relevant Ministries and Agencies)

https://www8.cao.go.jp/cstp/openscience/r6_0221/hosaku.pdf

• FAQ on the Basic Policy for Achieving Immediate Open Access to Academic Papers, etc., and Specific Measures for Its Implementation

https://www8.cao.go.jp/cstp/oa_houshin_faq.pdf

Furthermore, if your institution lacks an institutional repository to facilitate immediate open access for academic papers, please use repositories such as Jxiv and GRANTS Data (scheduled for release at the end of fiscal year 2025) operated by JST.

- (*2) According to the Basic Policy, "Immediate open access applies to peer-reviewed academic papers (including the author's final draft) published in electronic journals and supporting data (research data mandated for publication by the journal's writing and publication guidelines, with the aim of ensuring transparency and reproducibility)."
- (*3) The Specific Measures further clarify: "'Immediate' open access, as stipulated by the Basic Policy, implies there is no embargo period after the publication of academic papers and supporting data in journals funded by competitive research grants. 'Publication in an academic journal' refers to the point at which an academic paper is accessible in an electronic version. If the academic paper is available electronically before specific volume, issue, and page numbers are assigned, this initial availability is considered the 'publication in an academic journal.' The duration required to upload the document to the 'Institutional Repository and Information Infrastructure' may vary

depending on the institution's system. Nevertheless, it is recommended that the paper be made publicly accessible within approximately three months following its journal publication."

(*4) Refer to "Overview of the NII Research Data Cloud (provided by the National Institute of Informatics Center for Open Science Research)"

(https://rcos.nii.ac.jp/service/) for further information.

4.22 Guidelines for writing acknowledgements

When publishing the research results from this program, please indicate that you have received our fund. Please include "[Moonshot R&D Program] Grant Number [10 digits (JPMJMS + 4 digits of project number)] in the Acknowledgment of the paper. Example of Acknowledgement in English is as follows:

This work was supported by JST [Moonshot R&D Program] Japan Grant Number [JPMJMSxxxx].

* If such results are made with multiple funding programs, please indicate all program names and systematic numbers. Grant number will be provided at the time of adoption.

4.23 Data disclosure from NBDC

Life Science Database integration Coordination Program (https://biosciencedbc.jp/) implemented by the JST Bioscience Database Center (NBDC) promotes the integrated use databases in the field of life sciences which have been created by various research institutions, etc.

According to "The Progress of the Project to Promote the Integration of the Life Science Database and Its Orientation in the Future" (January 17, 2013), the center, as a leader, is supposed to expand the applicable projects to use the data and database.

You are asked to cooperate with us in the disclosure, from the center, of the following types of data and databases that may be collected from this program as related to the field of life science.

No.	Type of the data	Disclosed to	URL for Disclosure
1	Overview of the Database	Integbio Database	https://integbio.jp
	Constructed for Disclosure	Catalog	/dbcatalog/
	Recorded data in the	Bio Science	https://dharshiyo
2	constructed database for public		https://dbarchive.
	use	Database Archive	biosciencedbc.jp/
3	The ones related to human	NBDC Human	https://humandbs
	beings from Item 2	Database	.biosciencedbc.jp/

4.24 Regarding External Verification as per the Basic Guidelines for Animal Experiments

Regarding External Verification as per the Basic Guidelines for Animal Experiments
Universities and research institutions conducting animal experiments are mandated to
comply with the "Basic Guidelines for the Conduct of Animal Experiments in Research
Institutions, etc." (MEXT Notification No. 71 of 2006; hereinafter referred to as "Basic
Guidelines"). The Basic Guidelines particularly emphasize the 3R principles: Replacement
(utilization of alternative methods), Reduction (reduction in the number of animals used),
and Refinement (alleviation of animal suffering). It is imperative to conduct animal
experiments in accordance with these principles.

Specifically, the Basic Guidelines stipulate that "to ensure transparency in the conduct of animal experiments, the head of a research institution, etc. should periodically conduct inspections and evaluations of the conformity of animal experiments at the institution to the Basic Guidelines and strive to have the results of these inspections and evaluations verified by external parties." Therefore, when applying for this project, if the research involves animal experiments, please ensure that your research institution undergoes external verification. If only certain facilities within your research institution have undergone external verification, please ensure that the entire institution undergoes this verification.

Basic Guidelines for the Conduct of Animal Experiments in Research Institutions (MEXT Notification No. 71 of 2006)

https://www.mext.go.jp/b_menu/hakusho/nc/06060904.htm

4.25 The National BioResource Project

The National BioResource Project (NBRP) has significantly advanced life science research in Japan by strategically collecting, preserving, and providing essential biological resources to universities and research institutions. To sustain its contributions to the development of life science research in Japan, it is vital to continually collect and preserve valuable biological resources.

Therefore, we request your cooperation in contributing to NBRP's collection activities by depositing any biological resources developed through this project (limited to those targeted by NBRP). Moreover, the use of biological resources already established by NBRP (including animals, plants, microorganisms, cell lines, genetic materials, and information) is highly recommended to facilitate efficient research.

*Deposit: A procedure that permits the use (preservation and provision) of the resource in this project without transferring the associated rights. By detailing the provision conditions in a deposit agreement, it is possible to impose specific usage conditions on users, such as usage limitations and citation requirements in publications.

NBRP Core Organization Development Program: Target BioResources and Representative Institutions List

https://nbrp.jp/resource/

4.26 Unified Review of Clinical Trials and Research in Multi-Institutional Collaborative Research

For clinical trials subject to the Pharmaceuticals and Medical Devices Act, clinical research subject to the Clinical Research Act (Act No. 16 of 2017), or research subject to the Ethical Guidelines for Life Sciences and Medical Research Involving Human Subjects (Joint Notification No. 1 of 2021 by the Ministry of Education, Culture, Sports, Science and Technology, the Ministry of Health, Labour and Welfare, and the Ministry of Economy, Trade and Industry), the ethical review, etc. (hereinafter referred to as "clinical trials and research") should, in principle, be conducted as a unified review when performing multi-institutional collaborative research. However, this does not apply to basic research where a small number of research institutions are responsible for different contents.

In this project, when conducting clinical trials and research as part of multi-institutional

collaborative research, a unified review is required to determine the appropriateness of its implementation. Additionally, the records of the unified review should be properly managed for a specified period, following the rules of the clinical trials and research. For understanding the situation, the research institution may be queried as needed. (Reference)

Regulatory Reform Implementation Plan(FY2024)

https://www8.cao.go.jp/kisei-kaikaku/kisei/publication/program/240621/01_program.pdf

Pages 51-52: Rationalization of Ethical Review to Protect Human Subjects and Strengthen Research Capabilities

[Relevant Section]

b. The Cabinet Office, Children and Family Agency, Ministry of Education, Culture, Sports, Science and Technology, Ministry of Health, Labour and Welfare, and Ministry of Economy, Trade and Industry, will mandate unified review for clinical trials and research receiving competitive research funds when conducting multi-institutional collaborative research to achieve the objectives of section a. However, this requirement does not apply to basic research where a small number of research institutions are responsible for different aspects of the research.

4.27 Research support service partnership certification system (A-PRAS)

The Ministry of Education, Culture, Sports, Science and Technology (MEXT) established the "Research Support Service Partnership Certification System" in FY2019. This system, in which the MEXT Minister certifies private businesses' services that satisfy certain requirements, is intended to improve the research environment, promote scientific technologies, accelerate the creation of innovations and support various efforts for research support services in Japan. As of April of 2023, there are multiple certified services including those related to finding co-researchers, publicizing and commercializing research results, and procuring research funds or equipment. Please make use of these diverse services.

For details of the certified services, see the following website. Please utilize these services.

4.28 Matters Related to Competitive Research Funding Reform

Currently, the government is discussing institutional improvement of competitive research funds for more effective and efficient use of R&D costs based on "The 6th Science, Technology, and Innovation Basic Plan", "Integrated Innovation Strategy 2023" and "Comprehensive package to strengthen research capacity and support young researchers." If the government indicates a policy for the institutional improvement and operation common to other competitive funding program during the open call period, we will inform you when applying the policy to the open call and operation.

4.29 Guidelines for the management and audit of public research funds in research institutions (practice standards)

(1) Organize the institution according to the "Guidelines for the Management and Audit of Public Research Funds in Research Institutions (practice standards)"

R&D institutions, etc. that are applying to this program and researchers need to observe the contents of the "Guidelines for the Management and Audit of Public Research Funds at Institutions (standard for implementation)" (revised on February 1, 2021)

R&D institutions, etc. must try to properly execute the research funds by organizing a system for managing and auditing the research funds under their responsibility based on the guidelines mentioned above. As a result of the investigation of the status of the organization based on the guidelines, if MEXT recognizes a fault in the relevant status of an institution, then the measures for reducing its indirect cost from all the competitive funds distributed by MEXT or an incorporated administrative agency under the jurisdiction of the MEXT may be taken with respect to the applicable institution.

* For "Guidelines for the Management and Audit of Public Research Funds in Research Institutions (practice standards)," access the following MEXT's website.

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

(2) "Self-evaluation Checklist for Structuring Organizations" based on "Guidelines for the Management and Audit of Public Research Funds in Research Institutions (practice standards)"

Upon contracting for this project, each research institution is required to establish a

management and audit system for research funds based on the indicated guidelines, and to respond and submit a Self-Evaluation Checklist for System Establishment, etc. (hereinafter referred to as "Checklist") to provide a report on the status of the system. (Contracts will not be permitted without answering and submitting the Checklist.)

Therefore, after April 1 of 2026, please check the content on the MEXT website and answer and submit of the Checklist according to the information provided on the website before concluding the commissioned research contract.

Institutions that have submitted the Checklist for FY2025 are allowed to contract regardless of the above, but must proceed with answering and submitting the FY2026 version of the Checklist by December 1, 2026.

Procedures related to answering and submitting the Checklist must be continuously carried out during the period in which the institution is managing the funds allocated for competitive research grants, among others, received from JST.

Institutions that do not receive competitive research funding from MEXT or independent administrative legal entities under the jurisdiction of MEXT are not required to answer or proceed with the Checklist.

For more details on this matter, please refer to the MEXT website.

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

4.30 Managing unjustifiable use and reception

As for the unjustifiable use and reception funds for implemented problems (referred to as "unjustifiable use" from here), the following applies strictly.

OMeasures when an unjustifiable use of research funds is recognized

(i) Canceling contracts and other measures

The R&D agreement will be canceled or altered with respect to the problem in relation to which an unjustifiable use or the like has been recognized. We will demand the entire or partial refund of consignment fees. In addition, we may not renew the contract in the next fiscal year or after.

(ii) Measures to restrict the qualification for application or participation *1

The measures for restricting the qualification for applying to this program or participating in it, or the measures for strict warning, are issued, as shown in the table below, depending on the degree of the unjustifiable act of the researchers *2 who violated the due care of a prudent manager without being recognized or directly involved with the researchers who engaged in the unjustifiable use of R&D funds from this program (referred to as "the researchers who engaged in unjustifiable use").

In addition, applications and participation may be restricted in other competitive funds, including other governmental bodies by providing a synopsis of the applicable unjustifiable use to the personnel of the other competitive funds, including other governmental bodies. The synopsis would include the name of the researcher who made an unjustifiable use, the title of the project, the organization to which he or she belongs, the problem to be solved by the research, the amount of the budget, the fiscal year of the research, the details of the misconduct, and details of the measures provided.

- *1. "Applications and participation" refer to proposing a new task, applying for calls, and making applications to participate in a new research project as a joint researcher group or to participate in ongoing research to solve a problem (continuing problem) as one of the R&D personnel, as a research director or a joint researcher or otherwise.
- *2. "The researchers who violated the due care of a prudent manager" refers to the researchers who violated the obligation to advance the program with the due care of a prudent manager even if they are not recognized so much as involved in the unjustifiable use.

The people within the restriction on an application due to unjustifiable use or reception	The degree of unjustifiable use		The period to restrict applications *3
The researchers who engaged in unjustifiable	Private misappropriation for acquiring personal profits		10 years
	Other than 1	① A case whose social influence is large and the viciousness of the act is judged to be high	5 years
		② Other than ① and ③	2 – 4 years
		3 case whose social influence is small and the viciousness of the act is judged to be low	1 year
The researchers who used other unjustifiable means to receive the competitive funds and the researchers who conspired to do so			5 years
The researchers who were not directly involved in the unjustifiable use but violated the duty of the due care of a prudent manager*2			Two years at the maximum to one year at the minimum depending on the degree of the violation of the researcher who was obligated to show the due care of a prudent manager

A strict warning is issued under any of the following conditions without restricting application or eligibility for participation.

- *1. In the case of Item 1, the influence over society is minor, the malignancy of the act is minor, and the amount of unjustifiable use is small;
- *2. In the case of Item 3, the influence over society is minor, and the malignancy of the act is minor;
- *3. The period to restrict applications will, in principle, begin from the fiscal year following the year in which the unjustifiable use was recognized and the research fund was paid back. Qualification for participation is also restricted in the year in which the unjustifiable use was recognized.

(iii) Disclosing unjustifiable cases

In this program, among the researchers who engaged in the unjustifiable use of R&D funds, the researchers who have violated the due care of a prudent manager, and the researchers whose qualification for application and participation in this program is restricted will be, in principle, disclosed by JST in the synopsis of the applicable unjustifiable cases or the like (name of the research institution, name of the project, fiscal year in which the misconduct occurred, details of the misconduct, amount of research funds spent on the misconduct, number of researchers involved in the misconduct, etc.). The researchers will be disclosed by the MEXT.

In addition, according to the "Guidelines for the Management and Audit of Public Research Funds In Research Institutions (practice standards)," if an unjustifiable act is recognized as a result of an investigation, the research institution is supposed to disclose the results of the investigation promptly; each institution is asked to take proper action based on the guidelines.

*For an overview of the unjustifiable cases disclosed on the website of MEXT as of present, access the following website.

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

4.31 Measures for researchers whose applications and qualifications for participation are restricted in other competitive funds

The researchers who are restricted due to an unjustifiable use of research funds, including in other competitive research funding systems across different government ministries and agencies, are restricted from making an application or qualifying to participate in this program during the period in which they are restricted from qualification and application in other competitive funds.

"Other competitive funds" include those that start new calls in the fiscal year 2026 or later. The systems that were terminated in the fiscal year 2025 or earlier are also included.

*For the specific systems currently within the scope, access the following website.

https://www8.cao.go.jp/cstp/compefund/ (Competitive funds)

4.32 Measures for violations of relevant laws

When conducting research, if relevant laws and/or ordinances, guidelines apply, there will be consequences and/or punishment based on the applicable laws, ordinances and/or the like, the R&D funds may be suspended, and/or the decision on the distribution of the R&D funds may be canceled.

4.33 Guidelines for responding to misconduct in research

(1) Structure organizations based on the "Guidelines for Responding to Misconduct in Research"

The R&D institutions etc., in applying for this program and implementing research activities must observe the "Guidelines for Responding to Misconduct in Research" (decision, Minister of Education, Culture, Sports, Science, and Technology, August 26, 2014)*1.

As a result of an investigation into the status of an organization based on the guidelines mentioned above, if MEXT recognizes an error in the status of the applicable institution, then measures for reducing the indirect cost of the competitive funds distributed by the MEXT or an incorporated administrative agency under the jurisdiction of MEXT may be taken against the applicable institution.

*1. For the "Guidelines for Responding to Misconduct in Research," access the

following MEXT's website.

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

(2) Submitting a checklist on the status of the endeavors based on the "Guidelines for Responding to Misconduct in Research"

To enter into a contract in this program, the R&D institutions must submit a checklist on the status of their endeavors based on the "Guidelines for Responding to Misconduct in Research" (referred to "research misconduct checklist" from here). They will not be allowed to implement research until the research misconduct checklist has been submitted.

After April 1, 2026, please check the content on the website, download the form for the FY2026 version of the Research Misconduct Checklist from e-Rad, fill in the necessary information, and submit it to the Research Integrity Promotion Office, Research and Development Infrastructure Division, Science and Technology Policy Bureau of MEXT through e-Rad before concluding the commissioned research contract.

Institutions that have submitted the Research Misconduct Checklist for FY2025 are allowed to contract regardless of the above, but must proceed with answering and submitting the FY2026 version of the Checklist by September 30, 2026.

Further, you do not need to apply if your organization is not engaged in research activities or if it is engaged in such activities but does not accept funds from the MEXT or an incorporated administrative agency under the jurisdiction of MEXT.

For details on how to submit a research misconduct checklist, access the website of MEXT.(This is the URL where the FY2025 version of the checklist is posted, so please check there when the FY2026 version of the checklist is released.)

https://www.mext.go.jp/a_menu/jinzai/fusei/1420301_00007.html

(**1) Your institution must make e-Rad available. Note that it normally takes about two weeks to register. For details on the procedure for using e-Rad, access the following website.

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

(%2) Institutions conducting research activities with budget allocations or measures

received from MEXT or independent administrative legal entities under the jurisdiction of MEXT must submit the Research Misconduct Checklist every year by September 30 (or the preceding business day if September 30 falls on a weekend or public holiday) during the period they are conducting such research activities.

(3) Measures for research activity misconduct based on the "Guidelines for Responding to Misconduct in Research."

Strict measures will be taken, as stated below, if any misconduct is performed during research activities in this program.

(i) Canceling contracts and other measures

If a specific type of misconduct (forgery, falsification, or theft) is recognized in an R&D subject in this program, the R&D agreement will be canceled or altered depending on the case. We will demand a whole or partial refund of the R&D funds. In addition, we may not enter into a contract in the next fiscal year or after.

(ii) Measures to restrict the qualification for application or participation

We will take measures to restrict the qualification for application and participation in this program, as stated in the table below, depending on the viciousness of specific types of misconduct and the degree of the responsibility of the parties involved in the misconduct and the parties recognized as having a certain degree of responsibility because of their obligation to use caution with the applicable papers, reports, and the like even if they were not directly involved in research papers, reports, etc. in this program.

In addition, if measures for restricting the qualification for application or participation are taken, the qualification for application and participation may be restricted in the same manner in the competitive funds of the other MEXT and the competitive funds of the other governmental bodies; the information will be provided to the personnel of the competitive funds distributed by MEXT and the incorporated administrative agencies under the jurisdiction of the MEXT (referred to as "the competitive funds in relation to the MEXT" from here). It will also be reported to the

personnel of the competitive funds distributed by other governmental bodies and the incorporated administrative agencies under their control (referred to as "the competitive funds of other governmental bodies" from here).

(*) "Application and participation" refers to proposing and applying for new research topics, participating in new research as a co-researcher, or participating as a research representative or co-researcher in ongoing research projects (continuing projects).

Persons restricted from application due to a specific type of misconduct			The degree of the specific type of misconduct	The period of restricted applications *
	1. The person's misconduct is especially vicious; for example, if he or she intended to perform misconduct from the beginning of the research project			10 years
The person involved in a specific type of misconduct	2. The author of the paper or the like in relation to the research in which a specific	The author who takes responsibility for the applicable paper or the like (the supervisor, representative for the	The influence over the development of the research in the applicable field and/or the social influence are significant, and the viciousness of the act is judged to be high	5 – 7 years
	type of misconduct occurs	authors, or the person with responsibility	The influence over the development of the research in the applicable field	3 – 5 years

		1		ī
		equivalent to	and/or the social	
		the above-	influence are	
		mentioned	insignificant, and	
		person)	the viciousness of	
			the act is judged	
			to be low	
		The authors		
		other than the		2 – 3 years
		above		
	3. The persor	ns involved in a		
		of misconduct		2 – 3 years
	excluding 1	and 2 above		·
The author who takes responsibility for the paper related to the research in which a specific type of misconduct is performed even though he or she is not involved in the misconduct (the person responsible for supervision, the representative of the authors, or the person who is recognized as having responsibility equivalent to the above-mentioned persons)		The influence over the development of the research in the applicable field and/or the social influence are significant, and the viciousness of the act is judged to be high	2 – 3 years	
		The influence over the development of the research in the applicable field and/or the social influence are insignificant, and the viciousness of	1 – 2 years	

the act is judged
to be low

- * The period of restricted applications will, in principle, begin from the fiscal year following the year in which the specific type of misconduct is recognized to have taken place. The qualification for participation is also restricted in the year when the misconduct is recognized.
- (iii) Measures for researchers whose applications and qualifications for participation are restricted from other competitive funds and in fundamental costs.

For the researchers whose applications and qualifications for participation are restricted due to misconduct in research activities, the application and qualification for participation in this program are restricted for the same duration as that of the competitive funds of the MEXT, a grant for the operation cost of national university corporations, inter-university research institution corporations, and the independent administrative agencies under the control of MEXT, the fundamental cost from the subsidies to private educational institutions, or the competitive funds of other governmental bodies.

"Other MEXT-related competitive research funding systems, etc." and "competitive research funding systems related to other ministries and agencies" include systems that will start new public calls for proposals from FY2026 onwards. This also applies to systems that ended before FY2025.

(iv) Disclosing misconduct cases

If there is any misconduct in research activities uncovered in the project, JST will in principle disclose information about the case, etc. (name of misconduct case, type of misconduct, project name, summary of the misconduct case, measures taken by JST, etc.). Furthermore, MEXT will also in principle disclose information about the project (name of misconduct case, type of misconduct, research field of the misconduct case, name of the expense under which the misconduct occurred, summary of the misconduct case, measures taken by the research institution, measures taken by the funding agency, etc.)

In addition, according to the above-mentioned guideline, if some misconduct is

recognized, the R&D institutions etc. that manage the R&D are supposed to disclose the result of the investigation promptly; each institution is asked to take proper action based on the guideline.

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

4.34 Obligation to complete research and ethics education and compliance courses

The researchers who participate in an R&D subject of this program are supposed to take the research ethics education to prevent misconduct in their research activities, as required in the "Guidelines for Responding to Misconduct in Research." They must also complete compliance education courses, as required in the "Guidelines for the Management and Audit of Public Research Funds in Research Institutions."

During the procedure for reaching an R&D agreement, which comes after a proposed research challenge is adopted, the research director needs to submit a document to the effect that the researchers and all other participants of the research challenge in Moonshot R&D have taken research ethics and compliance education courses and understood the content.

4.35 The handling of information on e-Rad

The information on e-Rad about specific adopted projects (the title of the project, the title of the research challenge, the name of the R&D organization, the name of the person in charge of the R&D, the amount of the budget, the period of the implementation, and the overview of the problem) is handled as "the information that is supposed to be published" as defined in Article 5, Item 1-a in the "Act on Access to Information Held by Independent Administrative Agencies" (law No. 140, 2001). This information will be published appropriately after adoption not only on the project's webpage but also on the JST Project Database (hereinafter "PDB," https://projectdb.jst.go.jp/) and the Integrated Research Project Search (GRANTS, https://grants.jst.go.jp/). Moreover, research outcome reports and other documents submitted by researchers, which are eligible for public release, may be published on the PDB.

4.36 Providing information from e-Rad to the Cabinet Office

The 6th Basic Plan for Science, Technology, and Innovation (March 26, 2021 Cabinet

decision) notes that in science, technology, and innovation administation, the EBPM of policy formulation based on objective evidence will be carried out in all relevant ministries and agencies. The information registered to e-Rad will be used for the appropriate evaluation of R&D with national funds, effective, efficient, and comprehensive strategies, proposals for planning, and the principles for distributing resources.

Therefore, it is asked that information on research and accounting results in each fiscal year of the adopted problems be registered to e-Rad.

The information necessary for macro-analysis is provided to the Cabinet Office; it should include information on research and accounting results. If it is difficult to register individual research outcome information and accounting performance information of each research director or program representative on e-Rad, JST may provide that information to the Cabinet Office.

4.37 Registering researcher information to researchmap

Researchmap (https://researchmap.jp/) is a database of researchers in Japan with over 300,000 registrations, allowing for the management and publication of performance information. In addition, researchmap is lined to e-Rad and educator databases at universities. It enables registered information to be used in other systems; therefore, researchers do not need to register the same achievements repeatedly in written declarations and databases.

The information registered to researchmap is effectively used to instigate and check the statistics of proposals for the academic and science and technology policies of the national government. The participants in this program are asked to cooperate and proactively register information to researchmap.

4.38 Patent applications by JST

If an invention or the like is not turned into a right by the R&D institution, JST may do so. Therefore, if the R&D institution does not expect to turn an invention or the like into a right, we want the researcher to submit a quick report of the information on the applicable invention or the like to JST in any form. ("The information on the applicable invention" stated above refers to the information necessary for JST to judge whether the

application is suitable to become a right; it could include a copy of the invention notification used by the R&D institution.)

Based on the received report, JST will deliberate on whether the invention should be turned into a right. If it is judged that JST can apply the invention or the like, the R&D institution and JST will make another contract, "Agreement to Transfer the Right to Acquire a Patent."

*Regarding the Non-Publication System for Patent Applications:

The patent system is designed to promote further technological improvements and prevent redundant research and development by uniformly disclosing inventions that have been applied for patents, as well as grant of patent rights. Before the establishment of the non-publication system for patent applications, Japan's patent system required the government to disclose the contents of any patent application after 18 months, even if the invention should not have been disclosed for security reasons. In other countries, it is common to have a system that keeps such patent applications confidential. Therefore, in Japan, the Act on the Promotion of Ensuring National Security through Integrated Implementation of Economic Measures (Law No. 43 of 2022), also known as the Economic Security Promotion Act, established a non-publication system for patent applications.

Under the Act, if a patent application's detailed description includes an invention that, if disclosed publicly, could significantly jeopardize the safety of the nation and its citizens through external actors, a procedure called a "preservation designation" reserves patent procedures such as application publication, patent examination, and rejection decisions. During this period, the disclosure of the invention's content, including its publication, and the implementation of inventions that could lead to similar outcomes are generally prohibited. Furthermore, withdrawing the patent application to avoid this system is also prohibited. Please comply with national laws, guidelines, and directives, including the Economic Security Promotion Act.

Details about the non-publication system for patent applications are available on the Cabinet Office's website. For more information, please refer to the following:

- Cabinet Office: System for Non-Publication of Patent Applications

https://www.cao.go.jp/keizai_anzen_hosho/patent.html

4.39 Patent Application Nondisclosure System

The patent system uniformly discloses inventions for which a patent has been applied for, thereby promoting further technological improvements and eliminating duplicate research and development. On the other hand, before the establishment of the patent application non-disclosure system, Japan's patent system was such that, once a patent application had been filed, even if the invention would not be spread or proliferated due to security reasons, the contents of the application were made public after 1 year and 6 months had passed. However, in other countries' patent systems, it was common for patent applications related to such inventions to be kept private. As such, in Japan as well, the "Act on the Promotion of Ensuring National Security through Integrated Implementation of Economic Measures (Act No. 43 of 2022)" (hereinafter referred to as the "Economic Security Promotion Act") established a patent application non-disclosure system that, in certain cases, suspends procedures such as the disclosure of patent applications and takes measures to prevent the spread or proliferation of patent application.

Under the Economic Security Promotion Act, there may be cases where the invention described in the specifications of a patent application is likely to cause a situation in which the security of the state and its citizens may be harmed by external acts that are carried out if the information is made public. In these cases, through a procedure called "Preservation Designation," in addition to withholding information about patent proceedings such as the publication of patent applications and decisions to either grant or refuse a patent, during this withholding period in principle there is a prohibition on the general disclosure of the content of the invention (including publication) and on the implementation of inventions that are likely to lead to similar results. Furthermore, evasion of this system by withdrawal of the patent application is also prohibited. Please comply with national laws, guidelines, and notices, etc., including with the Economic Security Promotion Act.

Details of the patent application non-disclosure system are available on the Cabinet Office website.

Cabinet Office: Patent application nondisclosure system

https://www.cao.go.jp/keizai_anzen_hosho/patent.html

4.40 Response to the Startup Development Five-Year Plan

Following the decision regarding the Startup Development Five-Year Plan* at the Council of New Form of Capitalism Realization (chaired by the Prime Minister) on November 28, 2022, this program strongly encourages proposals from startups and proposals involving startups to contribute to creating an ecosystem in Japan that nurtures startups, through the acceleration of startup entrepreneurship and the promotion of open innovation by existing large enterprises. Additionally, during the implementation of the R&D projects, efforts should be made to encourage the participation of new startups with an eye toward social implementation.

https://www.cas.go.jp/jp/seisaku/atarashii_sihonsyugi/kaigi/dai13/shiryou1.pdf https://www.cas.go.jp/jp/seisaku/atarashii_sihonsyugi/kaigi/dai13/gijisidai.html

Chapter 5 How to use the cross-ministerial R&D management system (e-Rad) for your application

5.1 The cross-ministerial R&D management system (e-Rad)

The Cross-ministerial R&D Management System (e-Rad) brings a series of processes in relation to the management of call-for type research systems (accepting applications > selection > adoption > management of the adopted problems > accepting the registration of research results and accounting results, etc.) online, which is managed by each governmental body.

*"e-Rad" has been abbreviated from "electronic Research and Development"; the first letter of each of these words has been used to create the short form that the Crossministerial R&D Management System is referred to as.

5.2 How to use e-Rad for your application

You are supposed to use e-Rad for your application to thisprogram.

To apply, please refer to the e-Rad portal site (https://www.e-rad.go.jp/) .

- ※In principle, paper documents cannot be accepted when using e-Rad, so we ask that you please use the e-Rad portal site to complete all of the application procedures.
 In addition, when applying, please pay particular attention to the following points.
- (1) Registration prior to the use of e-Rad (https://www.e-rad.go.jp/organ/index.html)

 You need to register the proponent and his or her organization before using e-Rad.
 - (i) Registering the proponent's organization

The organization to which the proponent belongs must be registered on e-Rad by the time of the application. Appoint one person from the organization to which the proponent belongs as the representative to manage all clerical work on e-Rad. The representative should use the e-Rad portal site (referred to as "portal site" from here) to download the registration form for the R&D institution and apply for registration by postal mail (the proponent must undertake the abovementioned process by himself or herself if he or she belongs to an organization outside Japan or does not belong to any institution).

This registration step should be completed at least two weeks prior to the intended start date for using e-Rad because it may take several days to process your registration. Once registration is completed, you do not need to register again when applying for some other system or program provided by a governmental body, even if you have already finished the registration for the same.

(ii) Registration of departmental information, organizational representative information, position information, and researcher information

An office representative will log in to e-Rad using the ID and password obtained in step (i), register the departmental information, the organizational representative information (if there is such person), the position information, and the researcher information, after which an ID and password will be issued to the organizational representative and the researcher.

For how to register, please go to the e-Rad portal site

(https://www.e-rad.go.jp/manual/for_organ.html) and refer to the following manuals for representatives of research organizations: "10. Procedures for Research Institutions" and "11. Procedures for Organizational Representatives of Research Institutions."

(2) Application through e-Rad

• Please refer to the manuals for researchers on the e-Rad portal site (https://www.e-rad.go.jp/manual/for_researcher.html) for how researchers should apply for an R&D project. Applications that do not have the e-Rad status of "research fund allocation institution processing" or "accepted" prior to the submission deadline will be considered invalid. Please check the status of your application by going to the "list of applications/adopted R&D subjects." Regardless of whether the researcher submitted the application prior to the deadline, if the status does not change to either of these, please contact the personnel in charge as described in section 5.3 "Others," below. Note that the "accepted" status is necessary in order for research fund allocation institutions to manage an application for an R&D project, but this status is not necessary from the standpoint of the researcher having completed his/her application. If the status

of the application documents has changed to "application in progress" and the status of the application process has changed to "research fund allocation institution processing, application in progress" prior to the deadline for submissions, then your application has been successfully submitted.

<Notes>

① When submitting an application, you will need to enter the application information online and submit the application form as an attachment.

You can upload a file that is roughly 3 MB or smaller as the electronic media for your application form; the maximum file size is 10 MB. Pay attention to the file size when using image data. If exceeding the maximum file size is unavoidable, please contact the personnel in charge specified in section 5.3 "Others," before uploading the file.

② Your application is not examined if the documents in your application are not complete or are faulty. Carefully read the instructions about preparing the files described in this application form and the template of the R&D project proposals.

5.3 Others

(1) Inquiries about how to use cross-ministerial R&D management system (e-Rad) Contact our personnel in charge of JST programs if your inquiry is about the program. Contact e-Rad Help Desk if your inquiry is about how to use e-Rad. Double-check the website of this call or the e-Rad portal site before you make inquiries. You are not allowed to make any inquiries about the status of selection or the adoption or rejection of your proposal.

Inquiries about	Department	Please ensure that any inquiries are made by e-mail.
this program;	of Moonshot	E-mail: moonshot-koubo@jst.go.jp
inquiries about the	Research and	*Please make sure to write "[2025 PM (Goal ●)]"
processes of	Development	(● is the selected goal number) in the subject.
preparing,	Program, JST	Office hours: 10:00-17:00
submitting, or any		*Except for Saturdays, Sundays, national holidays,
other step		and the year-end new-year holiday

concerning your		
application files		Tel: 03-5214-8419
		We will only accept emergent telephone inquiries
		on the day of the deadline or in an emergency.
		Even if we receive your question(s) by telephone,
		we may ask to handle the issue via e-mail.
Inquiries about	e-Rad Help	Phone Number: 0570-066-877 (Navigation Dial)
how to use e-Rad	Desk	Office hours: 9 AM – 6 PM
		*Except for Saturdays, Sundays, national holidays,
		and year-end new-year holidays

• The website for this call

https://www.jst.go.jp/moonshot/en/application/index.html

e-Rad portal site https://www.e-rad.go.jp/

(2) When e-Rad can be used

e-Rad is, in principle, in operation 24×7 . However, the service may be interrupted for system maintenance.

Before we interrupt the service, we post notifications on the e-Rad portal site.

Moonshot Research and Development - website

https://www.jst.go.jp/moonshot/en/application/index.html

See also this site for the latest information and FAQs.

[Inquiry Office]

Make sure to email us your inquiries.

Japan Science and Technology Agency

Department of Moonshot Research and Development Program

K's Gobancho, 7, Gobancho, Chiyoda-ku, Tokyo 102-0076 Japan

E-mail: moonshot-koubo@jst.go.jp

*Please make sure to write "[2025 PM (Goal ●)]" (● is the selected goal number) in the subject.

(Office Hours: 10am-5pm, Except for Saturdays, Sundays, National holidays, and year-end new-year holidays)