**Proposal for Moonshot R&D project**

**Project Manager Additional Application**

**(How to Complete the Form)**

[Form 1] An overview of the R&D project

[Form 2] The scenario to achieve the Moonshot Goal (within 4 pages)

[Form 3] Proposal for R&D project (within 7 pages)

[Form 4] Plans for promoting the R&D project and budget plans (within 2 pages)

[Form 5] Proponent management ability (within 2 pages)

[Form 6] Items implemented by PM for Refining

[Form 7] Information on conflicts of interest

[Form 8] Application status, efforts, and acceptance of other research funds

[Form 9] Human rights protection and managing the observance of laws

[Form 10] “Letter(s) of Recommendation”

[Appendix to Form] Performer candidate information sheet (within 1 page per performer)

[Instructions for filling in the proposal for projects]

* Do not exceed the specified page count for each form.
* Always use 10-point font or larger for the body text.
* You can use drawings and tables as necessary in [Form 2] to [Form 6].
* Erase the instructions for filling in the forms which are shown in blue before you submit the forms.
* Remove this sheet (the cover page of the instruction about how you fill in the form) before you submit the form.
* The file size should be roughly 3MB or smaller.
* You are not allowed to change documents after the deadline.

Proposals that do not follow the instructions above will not be accepted and not be adopted.

**[Form 1] An overview of the R&D project**

|  |  |
| --- | --- |
| **1.** **Moonshot Goals and R&D themes to be achieved in this proposal** | |
| Please select one Moonshot Goal and one R&D theme from Table 1.  If you select more than one, or if you select a theme that is not listed in Table 1, your proposal will not be accepted.  Example:  Moonshot Goal 1, “Realization of a society in which human beings can be free from the limitations of body, brain, space, and time by 2050”  R&D theme: (1) Research and development for CA that can be used in the body | |
| **2. Title of the R&D project** | |
| Describe the title of the R&D project you propose. | |
| **3. An overview of the R&D project you propose (within 225 words)** | |
| Describe an overview of the R&D project you propose (within 225 words including marks and signs). | |
| **4. Keywords** | |
| Write the keywords that express the feature of the R&D project you propose (five or less). | |
| **5. The R&D funds needed (total budget from 2022FY to 2025FY)** | |
| ●●●million yen (including indirect cost) \*The same amount as Form 4. | |
| **6. Information on the proponent (PM)** | |
| Your Full Name: | |
| e-rad Researcher Number: Fill in the 8-digit researcher number assigned from the Cross-ministerial R&D Management System (e-Rad). | |
| Information on the proponent in researchmap etc.  URL:  Author ID:  \*Describe the URL if there is a website containing the information on the proponent (the webpage of an office at his or her organization, a page on researchmap, etc.) or describe the ID if the researcher ID of ORCID ID or Web of Science or the author ID on SCOPUS is known. | |
| Nationality/Gender: | Date of Birth: |
| Affiliation/Post: | |
| Address/Boarding: | |
| Emergency contact information for interview selection (e.g. cell phone number): | |
| **7. Educational Background and Work Experience of the Proponent** | |
| Educational Background (the university you graduated from and the other academic institutions after)  Examples:  Year: Graduated from xx University, Department of xx  Year: Graduated from xx School of xx, Department of xx, majored xx  Year: Graduated from xx School of xx, Department of xx, majored xx  Year: Ph.D. of xx (xx University)  Work experience  Examples:  Year – year: xx Company, xx Department (developed xx)  Year - year: Project Associate Professor, xx University (involved in the study of xx)  Year – year: xx Company, xx Department (in charge of xx project) | |
| **8. Effort for the management of the R&D project** | |
| The ratio of the time for the management activities in the R&D project you propose: ●●％  \*If the PM participates also as a performer, describe the ratio of the time for the research and development activities in another form. | |
| **9. Leader’s institutions and the status of their arrangements** | |
| As stated in the application guidance, section 4.1.2, if a proponent is adopted as a PM, he or she is supposed to support the PM activities as the "leader’s institution." Describe the name of the candidate for the leader’s institution in Japan and the status of the agreement on accepting the post of the leader’s institution. If, however, you are not able to designate your leader’s institution within one month of being selected in principle, then the adoption could be canceled. \*\*If PM does not choose the present institution as the leader’s institution, the deadline will be three months later after the adoption.  Candidate for the leader’s institution: (example) xx University (or, xx Corporation)  The status of the agreement with the candidate for leader’s institution:  Done,  Being arranged | |
| **10. Information on the candidate for the major performer** | |
| Please enter the name, organization, and post of the major performer (the person who will perform the assigned R&D activities in the R&D project under the direction of the PM) in this column.  In addition, please fill in the details of all performer candidates, including the major ones, on the “Performer Information Sheet” attached to the form. If there are no essential performers, please write “None in particular.”  (Examples of description)  Performer Candidate 1: Name, organization and post  Performer Candidate 2: Name, organization and post | |

|  |  |
| --- | --- |
| Moonshot Goal name | R&D themes |
| Moonshot Goal 1,  “Realization of a society in which human beings can be free from the limitations of body, brain, space, and time by 2050” | (1) Research and development for CA that can be used in the body  (2) Research and development that constructs the social acceptance infrastructure enabling safety, security, and reliability during CA teleoperation |
| Moonshot Goal 3,  “Realization of AI robots that autonomously learn, adapt to their environment, evolve in intelligence, and act alongside human beings, by 2050” | (1) AI robot technology for building a base of operations in space  (2) AI technology to induce ideas, inspiration, and behavior change in people |
| Moonshot Goal 6,  “Realization of a fault-tolerant universal quantum computer that will revolutionize economies, industries, and security by 2050” | (1) Research and development for promising quantum hardware (solid-state systems) for acquiring fault tolerance  (2) Research and development for promising quantum hardware (e.g., atomic systems) for acquiring fault tolerance  (3) Empirical research and development for large-scale quantum communication networks  (4) Information processing system research and development for quantum error correction |

Table 1: Moonshot Goals and R&D themes

**[Form 2] The scenario to achieve the Moonshot Goal**

**\*Describe within four pages in Form 3.**

**Please make sure you reference “R&D concept” and “PD Guidelines for PM Additional Applications” when writing your application, not just this form.**

**1. Scenarios from the present time to the achievement of the MS Goal in 2050**

Please explain the scenarios of this proposal, from the present time to the achievement of the MS Goal in 2050, including appropriate target years.

When determining these scenarios, please organize the scientific/technological and social requirements that will be met when the MS Goal is fulfilled, and sort the initiatives that will fulfill them step-by-step from the perspective of backcasting.

When giving this explanation, please reference the length of time you expect it will take to achieve the MS Goal, and the impact it will have on industry and society if the MS Goal is fulfilled.

(1) Scenario(s) from the adoption of the PM to the eighth year (2030)

Please summarize the details of the R&D project in [From 3] “3. Details of the proposed R&D project and R&D implementation system.”

(2) Scenario(s) from 2030 to 2050

Please explain the scenarios from “8 years after PM selection (when the project terminates)” to the achievement of the MS goal. If necessary, please describe the envisioned realization in 2050.

**2. The main issues to be overcome to reach the MS Goal in 2050, past researches, and approaches to resolve them**

State the “main issues to be overcome” that you think need to be resolved to achieve the 2050 MS Goal. You should also provide “past research” on these issues, then describe your approach to the “resolution methods provided by this proposal,” dividing this into scientific/technological issues and social issues that could become a barrier to realization or popularization, such as public acceptance, regulations, and social economy. In this section, please describe the issues that can be considered within a span of about 30 years—from now to 2050. Please describe the major issues, past research, and solutions to these issues through this proposal in the short period between now and 2030 in [Form 3].

Please describe the “main issues to be overcome”. Rather than citing numerous problem points, you should pick out the issues that could become major bottlenecks and make lists of these for both scientific/technological issues and social issues.

Supplementary explanations for “past research” and “resolution methods provided by this proposal” should be included in each of the sections below.

(1) Main scientific/technological issues to be overcome

For “past research,” please state key initiatives that are being carried out in Japan and overseas to resolve these issues, then explain your reason for thinking that the “issues to be overcome” will be difficult to resolve through these initiatives and so the 2050 MS Goal will be difficult to achieve. Please note that previous initiatives should not be limited to descriptions of the proponent’s expertise, experience, and achievements.

For “resolution methods provided by this proposal,” please explain your hypothesized resolutions with scientific support. You should write your hypotheses and approaches regarding your resolution methods, why you think this proposal can resolve issues that have been difficult to solve in the past, and other information. Please also describe the validity while comparing the past research and the scenario of the proposal. Please state the references as necessary.

We do not specify any description method, but please ensure that the past research and resolution methods for each issue are comprehensible. For example, you could consider using the following format and separating these into sections.

Issue 1: ○○ has low accuracy, leading to the issue of ●●; it is necessary to improve the efficacy of ○○ from △△ to □□.  
Past research and problems in them: To improve the performance of ○○, △△ must be developed; it is said with the current ●● method, this will require ○○ years and ○○ trillion yen. However...  
Resolution methods provided by this proposal: ...

Validity of the current proposal: ...  
Reference:

Abcd,E., XXXXXXXXX,Journal of XX, pp.x-x, 20XX

Issue 2: ...  
Past research and problems in them: ...  
Resolution methods: ...

Validity of the current proposal: ...

Reference:

Abcd,E., XXXXXXXXX,Journal of XX, pp.x-x, 20XX

(2) Main social issues to be resolved (public acceptance, regulations, social economy, etc.)

For “past research,” please state key initiatives that are being carried out in Japan and overseas to resolve these issues, and how they are connected to this proposal. Please note that previous initiatives should not be limited to descriptions of the proponent’s expertise, experience and achievements.

For “resolution methods provided by this proposal,” please explain as necessary your hypothesized resolutions, as well as any connection with past research and the potential for collaboration, etc. You should write your hypotheses and approaches regarding your resolution methods. Please state as necessary the references upon which this is based.

We do not specify any description method, but please ensure that the past research and resolution methods for each issue are comprehensible.

**[Form 3] Proposal for R&D project**

**\*Describe within seven pages in Form 3.**

**Please make sure you reference “R&D concept” and “PD Guidelines for PM Additional Applications” when writing your application, not just this form.**

If selected as a PM, you will be responsible for setting verifiable quantitative goals based on a scenario, such as “milestones in the third, fifth, and eighth years from the time of PM selection,” and managing the R&D project to achieve them.

Please explain your idea of “milestones” below.

Please use this form to explain the milestones and details of the R&D project to achieve them, based on the scenario described in [Form 2] (hereinafter, “scenario”).

**1. R&D project milestones**

Describe the goals (milestones) to be achieved in the third (FY 2025), fifth (FY 2027), and eighth (FY 2030) years after the adoption of the project and the reasons for setting the milestones for each of the following items. Milestones refer to “verifiable achievement targets that enable quantitative understanding of the R&D results.” The appropriateness of milestones will be discussed during the selection process and, if necessary, revised during the refinement period. Milestones will be handled as indicators for the progress evaluation conducted by the PD after the start of the R&D project.

Milestones do not mean the number of papers or conference reports produced.

(1) Milestones to be achieved in the eighth year after the selection of the PM and reasons for setting them

① Milestone

　Please list the milestone(s) that are verifiable quantitative targets to be achieved in the eighth year from the time of the selection of the PM, based on the “scenario” developed by tracing from the achievement of the Moonshot Goal in 2050.

②Reasons for setting the milestone(s)

　In particular, please explain why it is reasonable and appropriate to set the milestone(s) in the eighth year, along with their positioning and inevitability in the “scenario.”

(2) Milestones to be achieved in the fifth year after the selection of the PM and reasons for setting them

① Milestone

　Please list the milestone(s) that are verifiable quantitative targets to be achieved in the fifth year after the selection of the PM based on the “scenario” traced from the achievement of the Moonshot Goal in 2050.

②Reasons for setting the milestone(s)

　In particular, please explain why it is reasonable and appropriate to set the milestone in the fifth year, including the analysis and consideration of the track back from the eighth-year milestone, and the position and inevitability of the milestone in the “scenario.”

(3) Milestones to be achieved in the third year after the selection of the PM and the reasons for setting them

① Milestone

　Please list the milestone(s) that are verifiable quantitative targets to be achieved in the third year after the selection of the PM, based on the “scenario” developed by tracking back from the achievement of the Moonshot Goal in 2050.

②Reasons for setting the milestone(s)

　In particular, please explain why it is reasonable and appropriate to set the milestone in the third year, including the analysis and consideration based on the track back from the milestone in the fifth year, as well as its position and necessity in the “scenario.”

**2．Issues to be overcome in the R&D project (R&D items)**

Please list several important scientific, technological, and social issues to be overcome by this R&D project to achieve the milestone in the eighth year from the time of selection of the PM, and explain them in detail, including quantitative expressions. Present past research to address these issues and explain why it is difficult to solve them with past research. The “issues to be overcome” described here should be consistent with the R&D items of the proposed R&D project.

In [Form 2], you are asked to describe possible challenges within a span of about 30 years from the present time to 2050. In this section, please describe the major challenges, existing efforts, and measures to solve them through this proposal in a short period of time from the present time to 2030.

**3．Details of the proposed R&D project and R&D implementation system**

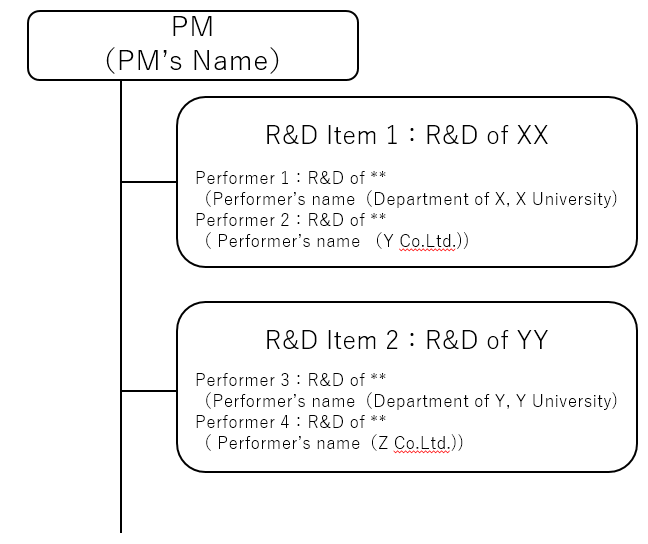
Please explain in as much detail as possible the specifics of the proposed R&D project to achieve the milestones described in “1. R&D project milestones.” Please also provide a diagram of the R&D system to be used in the implementation of the project, from the perspective of how the major R&D items will be divided and how the R&D will be promoted.

Please explain in a concrete, concise, and clear manner how you plan to achieve the milestones in the third, fifth, and eighth years from the time of the selection of the PM, after logically presenting the solution measures and hypotheses to solve the issues listed in “２．Issues to be overcome in the R&D project (R&D items).”

Please also include in your explanation that the proposed R&D project is original, ambitious, and based on bold ideas, and that sufficient consideration has been given to hedging risks in the event of issues that are difficult to resolve or overcome.

The budget amount and annual plan for each R&D item should be entered in [Form 4].

As for the R&D implementation system, if there is an expected candidate performer, it is acceptable to provide their specific name and affiliation. For those who have provided their names, please prepare the form “Performer candidate information sheet” (Appendix to Form). However, since the performer will be determined through refinement of the R&D project, the inclusion of the researcher in the application form does not constitute a commitment to the project or the research and development expenses (please refer to application guidelines 4.2 and 4.3). The figure below is for reference only.



**4．Ripple Effects of the R&D Project**

(1) Ripple effects of this R&D project

Please explain what kind of results the proposed R&D project will produce by 2030, and what kind of ripple effect (impact) the results will have on the academe, industries, or society.

(2) Effects of collaboration with existing R&D projects

Please explain how the proposed R&D project can collaborate with existing R&D projects and what impact such collaboration will have on your proposed R&D project. In addition, please explain the possible impact of a collaboration with an existing R&D project.

**[Form 4] Plans for promoting the R&D project and budget plans**

**\*Describe within two pages in Form 4.**

**1. Plans for the promotion of the R&D project**

Describe specific plans for promoting the "R&D project" described in [Form 3]. Filling in this proposal form does not mean that you are promised to receive the funds and to implement R&D as you are planning. The above-mentioned will be determined in the course of refining on the R&D project. (See sections 4.2 and 4.3 of the application guidelines.)

Describe the overview of the R&D items, the period of implementation, and the R&D cost of the R&D items (from the adoption of the PM up to FY2025; including indirect cost) for each of the major R&D items.

Note that the description given for the “R&D Items” should be aligned with that in [Form 3] “3. Details of the proposed R&D project and the R&D implementation system.”

|  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| R&D Item | R&D  Cost  (-FY2025) | FY  2022 | FY  2023 | FY  2024 | FY  2025 | FY  2026 | FY  2027 | FY  2028 | FY  2029 | FY  2030 |
| R&D of XX | XX |  |  |  |  |  |  |  |  |  |
| R&D of YY | XX |  |  |  |  |  |  |  |  |  |
| R&D of ZZ | XX |  |  |  |  |  |  |  |  |  |

（R&D cost until FY2025 should include indirect costs, unit: million yen）

**2. Yearly plans for research and development cost**

Describe the rough amount of your R&D cost. (unit: million yen)

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| Fiscal Year | 2022 | 2023 | 2024 | 2025 | 2026～2027 | 2028～2030 | Total |
| R&D cost  (including indirect cost) | X.X | X.X | X.X | X.X | X.X | X.X | XX.X |

\* In principle, the period of the R&D project is four fiscal years (until FY 2025). If it is decided that the project will be continued after FY 2026, the period of the R&D project will be nine fiscal years (until FY 2030).

The evaluation will be conducted in the third year (to be conducted within FY 2025) from the time of the selection of the PM, and in the fifth (to be conducted within FY 2027) and eighth years (to be conducted within FY 2030), if it is decided that the project will be continued after FY 2026.

**3. Major equipment to be purchased**

If you are planning to purchase equipment or conduct outsourcing that costs 20 million yen or more per item, itemize the name of the equipment, a rough estimation of the expenditure, and the year when you want to purchase it.

(Examples)

Name of the equipment: xxxxxx

Rough estimation of the expenditure: xxx thousand yen (Desired year of purchase:zzzz)

Name of the equipment: yyyyy

Rough estimation of the expenditure: xxx thousand yen (Desired year of purchase:zzzz)

\*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.

**[Form 5] Proponent management ability**

**\*Describe within two pages in Form 5.**

**\*Please see also “Nature as PM” of “3.6 Viewpoints in selection” in the application guidelines, when filling in this form.**

**1. Experience and achievement as they pertain to the management ability of the proponent**

Itemize your experiences and achievements in the management of R&D projects, business applications, etc. in an easy-to-understand way. If you have no experience or achievements to describe, write "None.”

If you have been a representative for any other research fund systems, list the title of the R&D project, the research cost, and the evaluation of it afterwards for major examples. See the example in the following table.

(Examples of description) Copy the following table if you need to describe two or more examples.

|  |  |
| --- | --- |
| Title of the fund system | Research base formation system by Ministry of xx |
| Period(fiscal year) | Fiscal year - fiscal year |
| Subject of research | The new xx science on the observation of yy developed by using zz |
| Research cost (direct cost) | xxx million yen |
| Results of the evaluation of the completed research | S) An excellent result was achieved; a significant contribution was made to the promotion of the use of xx. |

Describe the details of the roles and contributions of the proponent in any business application achievements. Include an overview of the business (the details of the business, results of order-taking and sales, etc.) in the description.

**2. Achievements in information exchange and collaboration with people from a wide range of fields**

Include specific examples in your description so that we can see your ability to communicate with researchers and relevant parties in and outside the country. Show that that you have networks with experts across the fields of academia and industry and the ability to collect information.

**3．Reasons for suitability as a project manager (PM) for this project**

Please explain why you believe that you are the best person to manage R&D projects (PM activities: see application guidelines 1.1.3 and 4.1.1), referring to your own specific experience, career, and achievements. Please explain why you believe that the proponent is suitable for the role of PM, including core management skills.

Core management skills may include leadership, discernment, problem-solving, decision-making, and interpersonal influence/communication skills.

**4．Proponent’s concept for executing the management of the R&D project**

Describe how the PM will manage the R&D project to promote it. Please refer to “Management of R&D Projects by PMs” in application guideline 4.1.1, “Roles and Responsibilities of PMs.”

The support of the leader’s institution will also be essential for the candidate to promote PM activities. Please describe how you plan to support PM activities in the leader’s institution. In addition, please describe the size and number of staff comprising the support system (e.g., full-time staff who provide daily support for management, such as R&D progress management, and experts who formulate policies for handling intellectual property).

**【Form 6】Items Implemented by PM for Refining**

**\*Describe within two pages in Form 6.**

If you are selected as a PM, you will conduct refinement of the R&D project in about one month under the direction of a PD with the cooperation of sub-PDs and advisors. Please explain what you think you need to do as PM during the one-month refinement period to start the R&D project.

For the refinement period, please refer to application guidelines 4.2 “Refinement of R&D project by PM” and 4.3 “Implementation of R&D project by the PM.”

**１．Details regarding the R&D project implementation plan**

Please explain the details of the implementation plan of the R&D project that you believe must be implemented during the refinement period.

Examples of specific points that you should describe include

・Details of and methods for brushing up the weak points in the R&D plan (R&D item XX)

・Seeking collaboration with existing PMs

・Securing a place to conduct the R&D and demonstration experiments, etc.

**2．Details regarding project management (status of coordination regarding PM support at the leader’s institution)**

In proceeding with the PM activities described in [Form 5] “4. Proponent’s concept for executing the management of the R&D project” the proponent’s leader’s institution must establish a support system that will not interfere with PM activities after the refinement period. Please describe in detail what will be done during the refinement period to establish the support system and the status of the preparation of the proponent’s leader’s institution regarding it.

[Example descriptions]

Example ①

Details to be implemented during the refinement period: Hire full-time staff with expertise in the field of \*\*. The support department will provide temporary support for the period until the appointment.

Support department of the candidate’s representative institution: University of XX, Faculty of YY

Status of preparation: Candidates for staff members have already been selected, and hiring procedures can be carried out immediately after adoption. Temporary support from the supporting department has already been arranged for the period until the appointment.

Example ②

Details to be implemented during the refinement period: Secure facilities for the establishment of a support system for PM activities.

Support department of the proponent’s leader’s institution: University of XX, Faculty of YY

Status of preparation: Office space has been secured for the PM and their support team of approximately \*\* people.

**[Form 7] Information on conflicts of interest**

Information on a PD’s conflicts of interest

Select whether the proponent has any shared interests with the PD that correspond to the MS goal you have selected. If there are shared interests, describe the content of them specifically. For a fair and transparent evaluation, the PD who has a shared interest with the proponent will not participate in the selection processes with respect to the applicable proponents.

If it is confirmed that the requirements of a relation of interest are met between the proponent and the PD and no declaration is made from the proponent to JST, we may take measures, including not adopting the project or canceling the project, unless JST recognizes appropriate reasons for the omission.

Select whether the proponent has a shared interest with the PD who oversees the MS goal you selected.  Yes  No \*Select one.

Provide a specific description if you answered, "Yes.":

The definition of a proponent who has a shared interest is as follows.

1) A person who is a relative of the PD

2) A person who belongs to the same department or major, or the like as the PD 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 PD

3) A person who engages in a close joint R&D project with the PD. This refers to, for instance, conducting a joint R&D 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 PD, or practically belonging to the same R&D group as the PD.

4) A person who is closely associated with the PD as a teacher or student or they have a direct employer-employee relationship

5) A person who is in an academically competitive relationship with the PD‘s R&D project or who belongs to an enterprise that is in a competitive relationship in the market

In the application form, shared interests with the PD should be described. As stated in section 3.5.2 in the application guidelines, you may be questioned at interview about shared interests between PM and performers, PM and PM-related institutions, PM and JST-invested companies. Also, you may be required to submit additional materials regarding those kinds of shared interests.

**[Form 8] Application status, efforts, and acceptance of other research funds**

The proponent should describe the competitive funds of the national government or any other research aid the proponent is currently participating in, has applied for, or is applying for. Include the title of the project, the period of implementation, the role, and the amount of the research funds you receive, your efforts, and the like. In addition, provide an overview of your activities other than research and the effort.

Please list this in order of the amount of research funds received (largest first; however, list this program first, regardless of the monetary amount).

Regarding “Affiliation and post at time of application”, please describe your affiliation and title when applying for the research budget. As for "Effort," describe the ratio (percent) of the time which will be allocated to proponent's R&D projects listed below in tables(1)(2)(3) to the time for all tasks in one year (not only the time for research and management activities but also the time for profitable business and non-profitable activities, education, medical activities, etc.); it should total 100 percent.

If the proponent is planning to be involved in the R&D project as a performer in addition to managing the project as a PM, please also fill in the effort allocated to the R&D as a performer.

\*See section 5.3, "Measures for Irrational Duplications and Extreme Convergences." and section 5.34, “Ensuring Research Integrity Among Research Institutions.” When applying, the call of FY2021 is made based on the fact that the "Integrated Innovation Strategy2020" stipulates that "disclosure of information on the status of acceptance of foreign funds is a requirement when applying for research funds." Therefore, it is clarified that research funds from overseas should also be entered in the form of "whether or not there is other support" (or "status of application / acceptance of research funds, etc." depending on the R&D program). In addition to competitive funds, both domestically and internationally, please list all research funds such as grants from private foundations, contract research expenses from companies, and joint research expenses.

\*If description is different from the fact, the adoption may be canceled later.

\*Correct this form and contact our inquiry office shown at the end of this application form via email if any change arises in the content described in this form. For example, an application you filed and/or an application you plan to file for a research subsidy or the like is adopted or rejected while your proposal in this R&D project is still in the selection process.

\*If you are selected as an applicant and invited to our interview-based review, we may ask you to submit the application form, the plans, and the like for other research funds.

(Example of description) Add or delete rows in the table if necessary.

Regarding “Affiliation and post at time of application”, please describe your affiliation and title when applying for the research fund.

**Proponent’s Name**: xxxx xxxx

(1) The research fund you have applied for (Direct Cost)

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **No.** | **Title of the fund system/research fund (research period/name of the organization providing the fund)** | **Title of the**  **project**  **(Name of the representative)** | **Role**  **(Classification of representative, Co-principal investigator, etc.)** | **Affiliation and post at time of application** | **Direct cost in the fiscal year 2022**  **(Total direct cost for the whole period)** | **Effort**  **(%)** |
| 1 | [This proposal]  Moonshot Research and Development |  | Representative  (PM) |  |  | XX |
| 2 | Moonshot Research and Development | The Name of the project to be involved in as Performer  (PM’s Name)  \*If the proponent is planning to be involved in the R&D project as a performer, please fill in.  Also, please also fill in the effort allocated to the R&D as a performer. | Performer |  |  | 20 |
| 3 | Science research budget:Subsidy Fundamental research (S) (April 2020 -  March 2024) | The creation of xx by yy  (xxxx) | Co-Principal  Investigator | Professor, Graduate School of \*\*, \*\*University | 3 million yen  (10 million yen in total) | 5 |

● Research project(s) for which you have applied, the relationship with the R&D project proposed for this program, and the differences

Please explain the relationship between any research projects to which you have applied and this proposal, and the differences between them, referencing serial numbers. This is not necessary if you have not applied to anything other than this program.

(2) The research funds to be received (Direct Cost)

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **No.** | **Title of the fund system/research fund (research period/name of the organization providing the fund)** | **Title of the**  **project**  **(Name of the representative)** | **Role**  **(Classification of representative, Co-principal investigator, etc.)** | **Affiliation and post at time of application** | **Direct cost in the fiscal year 2022**  **(Total direct cost for the whole period)** | **Effort**  **(%)** |
| 1 | Science research budget:Subsidy Fundamental research (S) (April 2020 -  March 2024) | The creation of xx by yy  (xxxx) | Co-Principal  Investigator | Professor, Graduate School of \*\*, \*\*University | 3 million yen  (10 million yen in total) | 5 |

● Research project(s) for which you are receiving research budget, the relationship with the R&D project proposed for this program, and the differences

Please explain the relationship between any research project(s) for which you are receiving budget and this proposal, and the differences between them, referencing serial numbers.

(3) Other activities

|  |  |  |  |
| --- | --- | --- | --- |
| **Organization** | **Post** | **Activity** | **Effort(%)** |
| XX Corporation | Director (Part-time) | Deliberation on business plans, business operation plans | 3 |
| yy Corporation | Advisor | Guidance on R&D projects | 2 |

**[Form 9] Human rights protection and managing the observance of laws**

Review Chapter 5, "Instructions for applicants" of the application guidelines, and ensure that you understand the laws, ordinances, and guidelines that you should observe with respect to the project you propose and confirm that what you have formulated aligns with such regulations; when you do, check the check box (□).

|  |
| --- |
| (Examples of the laws, ordinances, and guidelines you should observe)  "Guidelines for Responding to Misconduct in Research" (decision, Minister of Education, Culture, Sports, Science, and Technology, August 26, 2014; including the revisions after)  "Guidelines for the Management and Audits of Public Research Funds at Institutions" (standard for implementation), enforced on February 15, 2007; decision, Minister of Education, Culture, Sports, Science, and Technology, February 18, 2014; including the revisions after)"  The laws and ordinances, ministerial ordinances, and notifications as well as the Foreign Exchange and Foreign Trade Act (Foreign Exchange Act) so that the achievements of state-of-the-art research are not transferred to any party that may perform any activity for possible military purposes, such as develop weapons of mass-destruction, or to terrorist groups with respect to security trade control (the measures for leaking technology overseas.  The laws of relevant countries if you are to be engaged in on-site activities overseas (including collecting biological resources) and/or in joint activities with overseas research institutions.  The laws and ordinances, ministerial ordinances, and ethics guidelines concerning life ethics and security with respect to the research and/or activities related to life science |

　Check the following box when you have reviewed the laws, ordinances, and guidelines that you should observe when making a proposal.

**I have reviewed the laws, ordinances, and**

**guidelines that I should observe.**

**[Form 10] “Letter(s) of Recommendation”**

If possible, submit the letter of recommendation. It should describe the reason why the proponent is well-suited to be a Project Manager (PM) of a long-term, challenging theme, such as the achievement of the MS goal in 2050. We may interview the persons who have written the letters of recommendation and/or contact them by telephone, via email, or other means.

It is not obligatory to submit letters of recommendation. If you are to submit, submit no more than one letter under category no. 1, and one or more under category no. 2. If several no. 2 letters are necessary, please use the same format

Each letter of recommendation must be one page or less on A4 size paper.

|  |  |  |  |
| --- | --- | --- | --- |
| No. | Letter of recommendation written by | Requirements in relation to the description | Language |
| 1 | The "head" of the institution that is expected to be the PM’s institution (the institution the proponent belongs to) | The reason why he or she is recommended as a PM for the Moonshot Program | In Japanese or English |
| 2 | An appropriate person who belongs to the institution overseas | Including a description in relation to the evaluation of "the leadership and communication skills" necessary to promote the project of the applicant | English |

Letter of Recommendation (No.1)

|  |  |
| --- | --- |
| Name of Recommended Person |  |
| Institution/Post |  |
| Reason for Recommendation | |
| (1) Describe the reason why he or she is recommended as a PM in the Moonshot Program  (2) Other special remarks | |
| The "head" of the institution that is expected to be the PM’s institution (the institution to which the proponent belongs) | |
| Name of Recommended Person |  |
| Institution/Post |  |
| Contact of the Recommender | (Tel)  (Fax)  (e-mail)  (Personnel) \*Specify if the contact is not the recommender but another person |

**[Appendix to Form] Performer candidate information sheet**

**(within one page per performer)**

Copy this page for each performer candidate. Fill it in for candidates whom the proponent thinks are essential for the implementation of the R&D project proposed here (\*This sheet needs to be submitted even when the proponent will also act as a performer.)

Filling in this proposal form does not mean that you are promised to receive the funds for the planning and/or the R&D project or that the applicable performer will be allowed to participate.

**"Performer Candidate Information Sheet" (One page or less per person)**

|  |  |  |
| --- | --- | --- |
| **Assigned R&D Item** | | R&D of XX |
| **Full name of the performer candidate** | |  |
| **Affiliation and Post** | |  |
| **Evaluation of the performer candidate and his/her achievements in R&D** | | |
| 1) Describe concisely the role of the candidate researcher and the reason you think they would be the most preferable to oversee the applicable item to be performed.  2) Describe five especially important achievements in the field to which the performer candidate is to be assigned in order to give grounds for the above-mentioned.  Itemize up to five achievements of importance, if any, in any relevant review paper, book, award, patent, invitation lecture, or presentation at an international institution. Underline the name of the performer if there are two or more authors or presenters. | | |
| **Role and Period of Participation** | | |
| The status of the agreement from the candidate to participate in the project | Done,  Being arranged,  Not arranged (Select one.) | |
| Effort for the project | (The ratio of the time for the activities in the R&D project in whole work hours）％ | |
| Conflict of interest with the proponent | No　　　 Yes (The item(s) of the conflict of interest applicable: a) PM, b) family relationship, c) same department, major, etc., or same company affiliation, d) close joint research and development, e) teacher–student relationship or employment relationship, etc.)  (Select “No” or “Yes,” and if “Yes,” please fill in the relevant items and contents, referring to application guideline 3.5.2) | |