# CRONOS Research and Development Proposal for FY2024

Confidentiality 2

(Form 1)

※本様式の書式設定、スタイル設定は、原則変更しないでください。カラーの図・文字は使用可能です。

※本文のフォントサイズは【10.5ポイント以上】を厳守してください。

※青字の記入要領は、このヘッダー部分も含めて提出時に削除してください。

※ファイル容量は3MB以内を目途に作成ください。

|  |  |
| --- | --- |
| Proposed Area | AREA1 (PO: NAKAO Akihiro (Professor, The University of Tokyo))  Mainly in the area of information and communication  AREA2 (PO: KAWAHARA Yoshihiro (Professor, The University of Tokyo)  Mainly in the area of information processing  *\*Please select one of the two.* |
| Grand Challenge | Please select an item.  *\*Please select the Grand Challenge you are proposing from the pull-down menu.*  *\*For more information on Grand Challenges, please see the Call for Proposals.*  *\*If you select GC00, please fill in the title and summary on the next page.* |
| Technology Categories  （Multiple selections allowed） | TC1：Communication Service　 TC2：Information and Communication Infrastructure  TC3：Network Security　 TC4：Devices and communication principle  TC5：Information Service　 TC6：Information Processing Infrastructure  TC7：Information Security　 TC8：Device and calculation principle  *\*Please select the technology category(s) in which the proposal has a high degree of originality or in which the research and development is focused (multiple selections allowed).*  *\*Please refer to the application guidelines for technical category details.* |
| Title of R&D project | *About 20 words* |
| R&D period | Oct. 2024 -　 xxx. 20xx （ years） |
| R&D budget  (Direct costs)  **\*Fundamental Research**  **expenses only** | Total Fundamental Research costs for whole periods ( Thousands of yen) |
| Name of Principal Investigator | ICHIGAYA Taro |
| Position, Department/Division, Institution | Professor, Graduate School of XX, University of XX  *\*Please fill in correctly without abbreviations such as*  *"Graduate School of XX Department of XX”, "Specially Appointed Associate Professor" etc.* |
| Educational background | 20XX Completed Doctoral program in Graduate School of XX Department of XX, University of XX  (Supervisor: Prof. XX XX)  *\*The name of your academic supervisor is required.* |
| Research career  (Main career and research activities) | 20XX-20XX Assistant Professor, Faculty of XX, University of XX  Research on XX in Prof. XX's lab  20XX-20XX Researcher, XX Research Institute  Research on XX in Dr. XX's lab  20XX-20XX Professor, Faculty of XX, University of XX  Research on XX  *\*Please describe any periods of life events (childbirth, childcare, care for relatives, etc.) that should be considered. (Please list only if you want to inform the evaluator of such events because of their impact on past research performance or for other reasons.)* |
| Researcher number | XXXXXXXX  *\*Enter the 8-digit researcher number assigned by the e-Rad system.* |
| Information on  Principal Investigator | URL：  *\*Please enter the URL of researchmap. If not available, please enter the URL of the laboratory's website, etc., which contains the information of the principal investigator.* |

|  |  |
| --- | --- |
| Title and Summary of GC00 (Other Grand Challenge) | ・Please fill in if you selected GC00 (Other)  Title:  *\*Please describe in 50 words or less.*  Summary：  *\*Please describe an outline of the challenge to common sense and the impact it will have on social issues (approximately 500 words).*  *\*Please also refer to the list of “Challenges to Common Sense” case studies at the end of the application guidelines.* |

***\*Please describe this cover page on no more than two pages.***

(Form 2)

## Summary of R&D Proposal

***\*Please describe a one-page summary of your R&D proposal, including Applied Research.***

*\*In the “Research Summary” section of the e-Rad Basic Information, please write “Refer to the Research and Development Proposal.*

## Overall Plan of R&D Project

(Form 3-1)

\*Please be sure to also refer to Chapter 2 "2.9 Selection perspectives" and Chapter 6 "Areas and Grand Challenges Targeted for Application" of the Application Guideline.

**\*Please describe this chapter in no more than 6 pages.**

### How to challenge the selected Grand Challenge?

\*Please describe the existing technical common sense related to your selected (or described) Grand Challenge and how you will challenge it. (500 words or less)

### What are the goals to be achieved during the R&D period for Fundamental Research and Applied Research?

*\*Please describe goals for achieving your Grand Challenge, which you aim to achieve within the R&D period, including the entirety of the Fundamental Research and Applied Research. (500 words or less).*

### Fundamental Research

### 3-1．R&D Plan for Fundamental Research

\*Describe your approach and method of conducting research to achieve the goals set forth in the previous section.

### 3-2．Uniqueness and superiority of your R&D in Fundamental Research

*\*Please describe the following items so that reviewers can judge whether they are satisfied.*

* *The technical contents of the proposal should be challenging and not an extension of conventional technology, and there should be a breakthrough in science and technology.*
* *The proposal must be superior and unique in light of domestic and international R&D trends.*

### 3-3．Status of Preparation for Fundamental Research Implementation

\*Please describe in detail the following points that will serve as the basis for promoting this concept.

* History and results of the principal investigator's previous research (include Co-principal investigator and research participants, if necessary)
* Other preliminary findings, data, etc. (if any)

\*Please describe the status of preparation related to this proposal.

### Applied Research

### 4-1．Plan for the implementation of R&D for Applied Research (optional)

*\*Please describe how the proof of concept will be implemented.*

*(Rough assumptions are acceptable.)*

*\*Please also describe when the Applied Research will begin.*

*(Rough assumptions are acceptable.)*

### 4-2．Assumed social impact of Applied Research (optional)

\*Describe how and to whom the technology you propose will be useful once established.

(Rough assumptions are acceptable.)

### Others

### ・Management Policy for Research Data, etc.

*\*Please describe your approach to the management and utilization of research data.*

**・Initiatives related to intellectual property rights, open sourcing, standardization activities, etc.**

*\*Please describe any particularly important initiatives regarding the above.*

*\*Please describe any other important initiatives.*

- - - Please describe Form 3-1 in no more than 6 pages including figures and tables up to this point. - - -

## System and Schedule for Fundamental Research

(Form 3-2)

**\*Please describe this chapter in no more than 2 pages.**

### 1．System for Fundamental Research

\*Please describe system for Fundamental Research you envision at the start of your R&D.

|  |  |  |  |
| --- | --- | --- | --- |
| **Research group name** | **Name of Principal Investigator or Co-principal Investigator** | **Position, Department/Division, Institution of Principal Investigator or Co-principal Investigator** | **Title of R&D project**  **(about 20 words)** |
| Group XX  \*XX= Last name of principal investigator | XX XX | Professor, Graduate School of XX, University of XX | Research and Development of XXXXXX  \*Describe the group's R&D project title in about 20 words. This description should also be used for the "R&D project title of Fundamental Research" in Forms 4-1 and 4-2. |
| Group XX  \*XX= Last name of Co-principal investigator (1)  \*Corresponds to “Joint Research Group 1”  after Form 4-2 | XX XX |  |  |
|  |  |  |  |

*<Notes on the description of the research and development system>*

* *In principle, JST will conclude contract research agreements with the organization to which the Principal Investigator or Co-principal investigator belongs for each R&D project. The Principal Investigator and Co-principal investigator are then eligible to receive the allocation of the R&D funds.*
* *Co-researchers who are required to execute the R&D budget should be added to the R&D system as Co-principal researchers.*

### 2．Schedule for Fundamental Research

*\*Please describe a Project Schedule chart showing specific timelines and milestones.*

*\*Please use the example below to describe the main schedule of the research. (The example below assumes a research period of 5.5 years.)*

*\*The name of the research group to be listed in the research implementation items should be the name of the group listed in the previous section, " 1. System for Fundamental Research ".*

*\*If there are multiple research items, please list them as clearly as possible so that we can identify the schedule and the person responsible for each item.*

*\*The position, length, and thickness of the arrow can be changed freely.*

|  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Research implementation items | FY2024  Sep.2024 -  Mar.2025 | | FY2025  Apr.2025- Mar.2026 | | FY2026  Apr.2026- Mar.2027 | | FY2027  Apr.2027- Mar.2028 | | FY2028  Apr.2028- Mar.2029 | | FY2029  Apr.2029- Mar.2030 | |
| 1. Development of XX |  |  |  |  |  |  |  |  |  |  |  |  |
| ・Confirmation of the XX principle  ・Analysis and evaluation of XX  （ XX　Group ） |  |  |  |  |  |  |  |  |  |  |  |  |
| ・  （ XX　Group ） |  |  |  |  |  |  |  |  |  |  |  |  |
| 1. Development of XX |  |  |  |  |  |  |  |  |  |  |  |  |
| ・XXXX  ・XXXX  （　XX　Group　） |  |  |  |  |  |  |  |  |  |  |  |  |
| ・XXXX  ・XXXX  （　XX　Group　） |  |  |  |  |  |  |  |  |  |  |  |  |
| 1. Development of XX |  |  |  |  |  |  |  |  |  |  |  |  |
| ・XXXX  ・XXXX  （　XX　Group　） |  |  |  |  |  |  |  |  |  |  |  |  |
| ・XXXX  ・XXXX  （　XX　Group　） |  |  |  |  |  |  |  |  |  |  |  |  |
| ・XXXX  ・XXXX  （　XX　Group　） |  |  |  |  |  |  |  |  |  |  |  |  |

## R&D implementation system 1

(Form 4-1)

(R&D Implementation System of the Principal Investigator Group)

**\*Please describe this chapter in no more than 2 pages.**

#### Group of Principal Investigator ( XX Group )

|  |  |  |  |
| --- | --- | --- | --- |
| **Name of Principal Investigator** | **Name of R&D institution 1)** | **Position** | **effort 2)** |
| XX XX | Graduate School of XX, Department of XX, University of XX | Professor | 40% |
| Researcher No. **3)**: 12345678  R&D Institution code **4)**: 1234567890 | |
| **Research participants 5,6)** | **Affiliation** (Omit if same as above) | **Position** | |
| XX XX |  | Pprofessor | |
| XX XX |  | Associate professor | |
| XX XX |  | Lecturer | |
| two research participants planned |  |  | |

1) If the institution to which you currently belong is different from the institution that will conduct the research and development after the adoption of the proposal, please inform us of the circumstances as a special note after stating the institution that will conduct the research and development.

2) Effort should include the percentage (%) of the total annual work time (include not only time spent on research activities, but also educational and medical activities, etc.) of the researcher allocated to the conduct of the relevant R&D.

3) Please enter the 8-digit researcher number that was assigned when the researcher's information is registered in the e-Rad system (e-Research and Development Management System).

4) Please enter the e-Rad affiliation code of your institution.

5) Please select the members of the R&D group after careful consideration of the roles they will play.

6) Please add a line to list R&D participants as necessary. For research participants whose names have not been finalized at the time of proposal, it is acceptable to describe "two research participants planned" or the like.

\*If it is necessary to work on the R&D subject at several different research institutions, members from different institutions may be added as research participants. However, in such a case, the research institution to which the Principal Investigator or Co-principal Investigator belongs must be able to manage the R&D costs. If you need to contract with JST individually to execute the R&D costs, please list them as a separate joint research group.

##### **Research implementation items and outline of Fundamental Research**

**・R&D project title of Fundamental Research**

\*Please describe the same R&D title as described in the table in Form 3-2:"Implementation Structure of Fundamental Research".

##### **・Research implementation items of Fundamental Research**

\*Please describe the same research implementation item as listed in the "Schedule for Fundamental Research" on Form 3-2.

**・Purpose and Contents of Fundamental Research**

\*Please describe a brief overview of the R&D for which the Principal Investigator's group will be responsible.

**・The role of this group in the R&D plan**

\*Please describe the role, etc. of the Principal Investigator's group in realizing the R&D plan.

##### **・Special note**

\*If special duties, etc. (e.g., administrative positions such as Dean of Graduate School, President of an academic society, etc.) require work time (effort), please describe the circumstances and reasons for this.

\*Please describe any plans you have for initiatives, etc. to foster advanced research personnel.

## R&D implementation system 2

(Form 4-2)

(R&D Implementation System of the Co-principal Investigator Group)

\*List all joint research groups (joint R&D organization) that have entered into R&D contracts with JST and to which R&D funds will be allocated.

\*There is no upper limit to the number of joint R&D groups, but the team should be optimal and necessary and sufficient to carry out the R&D plan of the Principal Investigator. The addition of a joint R&D group to a research team is not mandatory.

\*Please list the joint research group at the start of the R&D.

**\*Please describe this chapter in no more than 2 pages for each joint research group.**

#### Group of Co-principal Investigator(1) ( XX Group )

|  |  |  |  |
| --- | --- | --- | --- |
| **Name of Co-Principal Investigator** | **Name of Collaborative R&D Institution** 1) | **Position** | **effort 2)** |
| XX XX | XX Research Institute, XX Department, XX Team | Team leader | 10% |
| Researcher No. **3)**: 12345678  R&D Institution code **4)**: 1234567890 | |
| **Research participants 5,6)** | **Affiliation** (Omit if same as above) | **Position** | |
| XX XX |  | Executive chief engineer | |
| XX XX |  | Researcher | |
| XX XX |  | Research fellow | |
| two research participants planned |  |  | |

1）-6） Please refer to the previous page.

\*If it is necessary to work on the R&D subject at several different research institutions, members from different institutions may be added as research participants. However, in such a case, the research institution to which the Principal Investigator or Co-principal Investigator belongs must be able to manage the R&D costs. If you need to contract with JST individually to execute the R&D costs, please list them as a separate joint research group.

**Research implementation items and outline of Fundamental Research**

**・R&D project title of Fundamental Research**

\*Please describe the same R&D title as described in the table in Form 3-2:"Implementation Structure of Fundamental Research".

##### **・Research implementation items of Fundamental Research**

\*Please describe the same research implementation item as listed in the "Schedule for Fundamental Research" on Form 3-2.

**・Purpose and Contents of Fundamental Research**

*\*Please describe a brief overview of the R&D for which the Principal Investigator's group will be responsible.*

**・The role of this group in the R&D plan**

*\*Please describe the reasons why this joint R&D group is indispensable for the realization of the R&D plan of Principal Investigator, and its position in the realization of the plan.*

##### **・Special note**

\*If special duties, etc. (e.g., administrative positions such as Dean of Graduate School, President of an academic society, etc.) require work time (effort), please describe the circumstances and reasons for this.

\*Please describe any plans you have for initiatives, etc. to foster advanced research personnel.

### ・(Overseas Groups only) Reasons why overseas researchers and research institutions are essential for conducting the R&D

*\*When proposing to CRONOS, JST cannot provide research funding to researchers affiliated with overseas research institutions. Therefore, in principle, researchers belonging to overseas R&D institutions cannot be Co-principal Investigator. If you wish to form a research team that includes an overseas research institution, please state in this section the reason why a research participant who belongs to an overseas research institution is needed. (The PO's approval will be obtained during the document screening process.)*

* Necessity in realizing the R&D plan
* Reasons why overseas research institutions are essential for conducting R&D (e.g., facilities, environment, etc.)

### ・(Overseas Groups only) Proposed plan for cooperation with the group in the event that a contract is not concluded

*\*This proposal assumes that JST will provide research funding, but if a contract is not awarded, please describe in this section how you plan to work with the group concerned.*

### ・（Only if overseas groups are included） Status of Security Trade Control Regulations

*\*Please describe the status of regulations concerning security trade control for the Principal Investigator's group and domestic collaborative research groups.*

## R&D Budget Plan（Fundamental Research）

(Form 5)

**\*Please list only the costs of Fundamental Research (do not list the costs of Applied Research). Only if the grant is approved, applications for Applied Research will be solicited within the approved program.**

**\*Please list the annual amount of direct costs not exceeding 27,000 thousand yen.**

**\*In addition to the above costs, applicants may apply for additional funds up to 8,000,000 yen for the first fiscal year (FY2024) and 4,000,000 yen for the second fiscal year as necessary for initial environmental improvements, etc.**

**\*Therefore, the maximum amount for the first fiscal year is 35,000 thousand yen, the maximum amount for the second fiscal year is 31,000 thousand yen, and the maximum amount for the third and subsequent fiscal years is 27,000 thousand yen. The total maximum amount is 174,000 thousand yen.**

\*If you are selected for an interview, you will be asked to submit a more detailed R&D budget plan.

\*The R&D budget may be revised at the time of selection or in the middle of the R&D period, depending on the overall budget situation of the Program, management by the Program Officer, evaluation of R&D proposals, and other factors.

### 1．Overall R&D budget plan (by expense category)

（Unit: thousand yen）

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
|  | **1st fiscal year**  Sep. 2024 – Mar. 2025 | **2nd fiscal year**  Apr.2025 -Mar. 2026 | **3rd fiscal year**  Apr.2026 -Mar. 2027 | **4th fiscal year**  Apr.2027 -Mar. 2028 | **5th fiscal year**  Apr.2028 -Mar. 2029 | **6th fiscal year**  Apr.2029 -Mar. 2030 | **Total** (Thousands of yen) |
| **Expenses for equipment and fixtures 1)** |  |  |  |  |  |  |  |
| **Expenses for consumables 2)** |  |  |  |  |  |  |  |
| **Expenses for travel 3)** |  |  |  |  |  |  |  |
| **Expenses for personnel and gratuity 4)**  **(Number of researchers for whom personnel expenses are paid)** | ( ) | ( ) | ( ) | ( ) | ( ) | ( ) |  |
| **Expenses for others** |  |  |  |  |  |  |  |
| **Total direct costs** |  |  |  |  |  |  |  |

\*The following is a list of R&D costs and how they are used.

1) Costs to purchase equipment and fixtures

2) Costs to purchase consumable supplies

3) Costs for principal investigators' and research participants' travel

4) Costs for personnel and gratuity of researchers, technicians, research assistants, RA (†), etc.

† For RA (Research Assistant), please refer to “4.13 Improving the treatment of doctoral students” in Chapter 4 of the Application Guidelines.

##### **・special note**

\*Please consider the optimal R&D budget amount and ratio for each expense category.

*\*If there are items that require special explanation, such as large amounts of personnel or travel expenses, please describe them.*

### 2．R&D budget Plan by Group

（Unit: thousand yen）

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
|  | **1st fiscal year**  Sep. 2024 – Mar. 2025 | **2nd fiscal year**  Apr.2025 -Mar. 2026 | **3rd fiscal year**  Apr.2026 -Mar. 2027 | **4th fiscal year**  Apr.2027 -Mar. 2028 | **5th fiscal year**  Apr.2028 -Mar. 2029 | **6th fiscal year**  Apr.2029 -Mar. 2030 | **Total** (Thousands of yen) |
| **XX Group** |  |  |  |  |  |  |  |
| **XX Group** |  |  |  |  |  |  |  |
| **XX Group** |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |
| **Total direct cost** |  |  |  |  |  |  |  |

##### **・Major equipment to be purchased (please list if each purchase is 10,000 thousand yen or more)**

##### \*Please describe any new research equipment and fixtures you plan to introduce.

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Name for equipment and fixtures** | **Estimated price (thousand yen)** | **Name of research institution where equipment/device is to be installed** | **Year of introduction** | **Purpose of use** |
|  |  |  |  |  |
|  |  |  |  |  |
|  |  |  |  |  |

##### **・Special note**

\*Please describe any additional information that should be included.

## List of Achievements

(Form 6-1)

### 1．Principal Investigator

*\*Please explain, based on the research achievements, that the R&D Principal Investigator has the knowledge and experience to carry out this R&D plan, as well as the ability to assume responsibility for the overall R&D and to lead and manage the research team as the person in charge of the research team.*

*\*Please list relevant achievements and accomplishments below. Please give priority to those that are highly relevant to the proposal and have been made in recent years.*

*(Examples of items to be listed)*

*Academic papers, books, proceedings of international conferences, invited lectures at major international conferences, awards, patents, licenses, start-ups, data sets, software, standardization, and past research representation related to the applicant's research field and proposal content.*

*\*Briefly explain the importance of the achievements and results, and the role of the applicant. Please try to make your explanation as factual, objective and quantitative as possible (however, JIF, h-index, etc. are not required).*

*\*In the case of an academic paper, please provide the title of the paper, name of authors (list all authors and underline the applicant), name of the journal, volume number and pages, year of publication (Western calendar year), and bibliographic information for books, only if they have already been published or are confirmed for publication. Authors may be abbreviated as "T. Gijyutsu, etc.".*

*\*Preprints should be marked (Preprint) after the year of publication.*

*\*For patents, please list the application number, inventor, title of invention, applicant, and filing date.*

***\*The above description should be no more than 10 entries in total and no more than 3 pages.***

### 2．Co-principal Investigator

#### *\*Please describe a total of no more than 10 entries and no more than 2 pages for all Co-principal Investigators.*

(Form 6-2)

*\*Please describe in the same way as “1. Principal Investigator” in the previous section.*

Research grants from other systems, etc.

(Form 7)

\*Please describe the following information for each research project regarding competitive funding programs and other joint research funds or research grants (including private foundations and overseas institutions) (†) that the principal investigator and main co-investigator are currently receiving, have applied for, or plan to apply for. Please also refer to “4.2 Measures against Unreasonable Duplication and Excessive Concentration” in the Application Guidelines.

* Name of the funding system or research grant, Title of R&D project
* Research period, Research role, Amount of research grants, Effort required for research

(†) Since the “Integrated Innovation Strategy 2020” stipulates the disclosure of information on the status of foreign funding when applying for research funds, please describe information on foreign research funds in the “Grants from other sources” form when applying. Please describe all research funds, whether domestic or foreign, including competitive funds, grants from private foundations, research funds commissioned by companies, and joint research funds.

\*If the information described is untrue, the application may be cancelled at a later date, even if it is accepted.

\*If any of the information on this form changes during the selection process for this R&D proposal (e.g., proposal is selected), please revise this form and contact us by e-mail at the address listed at the end of the application guidebook.

\*If you are selected for an interview, you may be asked to submit an application or plan for another program.

#### Principal Investigator： Name

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **Name of funding system or research fund (Name of institution allocating research funds)** | **status of receipt** | **Title of R&D project**  **(Principal Investigator)** | **R&D**  **period** | **Role**  **(Principal Investigator / Co-principal Investigator)** | **(1) Received budgets (whole period)**  **(2) (FY2025 planned)**  **(3) (FY2024 planned)**  **(4) (FY2023 actual)** | **FY2024**  **Effort**  **(%)** |
| CRONOS  (This R&D proposal) | Applied |  | Oct. 2024  -  Mar. 2031 | Principal Investigator | (1) 174,000 thousand yen  (2) 31,000 thousand yen  (3) 35,000 thousand yen  (4) - | 40 |
| *Grant-in-Aid for Scientific Research(S)（JSPS）* | Received | XX creation by xx  (Name) | Apr. 2020  -  Mar. 2025 | Principal Investigator | (1) 100,000 thousand yen  (2) 50,000 thousand yen  (3) 25,000 thousand yen  (4) 5,000 thousand yen | 20 |
| *Joint research fund　(ＸＸ corporation)* | Received | Analysis of XX by xx  (Name) | Oct. 2023  -  Sep. 2025 | Principal Investigator | (1) 20,000 thousand yen  (2) 7,000 thousand yen  (3) 8,000 thousand yen  (4) 5,000 thousand yen | 10 |
| *JST Strategic Basic Research Programs*  *CREST (JST)* | Applied | XX upgraded function by xx  (Name) | Oct. 2024  -  Mar. 2030 | Co-principal Investigator | (1) 20,000 thousand yen  (2) 4,000 thousand yen  (3) 5,000 thousand yen  (4) - | － |

・Please list the research grants you are currently receiving or have been approved to receive, in descending order of total amount of research budgets received by you. Please list the grants you are applying for or plan to apply for after that.

\* If you are currently receiving a research grant or have been selected to receive a research grant, please describe “Receiving”. If you are applying or planning to apply for a research grant, please describe “Applied”.

\*If it is not a domestic competitive research grant, please also describe the name of the institution allocating the funds in the “Name of Funding System” or “Name of Research Fund” column.

\*In the “Role” column, please enter the “Principal Investigator” or “Co-principal Investigator”, etc.

\*In the “Received budgets” column, please describe the amount costs (direct costs) that the researcher himself/herself receives.

\*In the “Effort” column, please describe the percentage (%) of the total annual work time (including educational and medical activities other than research activity time) that is allocated for the implementation of the relevant research [Based on the definition in the Council for Science, Technology and Innovation]. Please do not list the effort of other research grants you are applying for or plan to apply for, but list the effort of research grants you are receiving or will receive, assuming that you will be selected only for CRONOS. Please do not exceed 100% of the total of your CRONOS effort and the effort of other research grants, etc. that you are currently receiving.

\*Please Increase or decrease the rows as needed.

#### Co-principal Investigator (1)： Name

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **Name of funding system or research fund (Name of institution allocating research funds)** | **status of receipt** | **Title of R&D project**  **(Principal Investigator)** | **R&D**  **period** | **Role**  **(Principal Investigator / Co-principal Investigator)** | **(1) Received budgets (whole period)**  **(2) (FY2025 planned)**  **(3) (FY2024 planned)**  **(4) (FY2023 actual)** | **FY2024**  **Effort**  **(%)** |
| CRONOS  (This R&D proposal) | Applied |  | Oct. 2024  -  Mar. 2031 | Co-principal Investigator | (1) 174,000 thousand yen  (2) 31,000 thousand yen  (3) 35,000 thousand yen  (4) - | 40 |
| *Grant-in-Aid for Scientific Research(S) （JSPS）* | Received | XX creation by xx  (Name) | Apr. 2020  -  Mar. 2025 | Principal Investigator | (1) 100,000 thousand yen  (2) 50,000 thousand yen  (3) 25,000 thousand yen  (4) 5,000 thousand yen | 20 |
| *Joint research fund　(ＸＸ corporation)* | Received | Analysis of XX by xx  (Name) | Oct. 2023  -  Sep. 2025 | Principal Investigator | (1) 20,000 thousand yen  (2) 7,000 thousand yen  (3) 8,000 thousand yen  (4) 5,000 thousand yen | 10 |
| *JST Strategic Basic Research Programs*  *CREST (JST)* | Applied | XX upgraded function by xx  (Name) | Oct. 2024  -  Mar. 2030 | Co-principal Investigator | (1) 20,000 thousand yen  (2) 4,000 thousand yen  (3) 5,000 thousand yen  (4) - | － |

Special Note

(Form 8)

\*For definitions of conflict of interest, please refer to “2.8.2 Implementation of conflict-of-interest management” in Chapter 2 of the Application Guidelines.

\*Please refer the CRONOS website for a list of “Area Advisors”.

### Conflict of Interest with the evaluator

1. **Conflicts of interest between R&D Principal Investigators and Evaluators (Program Officer and Area Advisors)**
2. **Conflicts of interest with Program Officer**：　Yes　　No

Reason (if a conflict of interest exists):

(e.g.) I am collaborating with Program Officer on Project XX (20XX - 20XX) and fall under (d) of the Interested Party Requirements set forth in 2.8.2(1).

1. **Conflicts of interest with Area Advisors**：　Yes　　No

Name of area advisor with whom you have a conflict of interest： Name

Reason (if a conflict of interest exists):

(e.g.) I am currently collaborating with an Area Advisor on Project XX and fall under (d) of the Interested Party requirements set forth in 2.8.2(1).

1. **Conflicts of interest between R&D Co-principal Investigators and Evaluators (Program Officer and Area Advisors)**
2. **Co-principal Investigators (1)**： Name（University of XX）
3. **Conflicts of interest with Program Officer**：　Yes　　No

Reason (if a conflict of interest exists):

(e.g.) I am collaborating with Program Officer on Project XX (20XX - 20XX) and fall under (d) of the Interested Party Requirements set forth in 2.8.2(1).

1. **Conflicts of interest with Area Advisors**：　Yes　　No

Name of area advisor with whom you have a conflict of interest： Name

Reason (if a conflict of interest exists):

(e.g.) I am currently collaborating with an Area Advisor on Project XX and fall under (d) of the Interested Party requirements set forth in 2.8.2(1).

1. **Co-principal Investigators (2)**： Name（University of XX）
2. **Conflicts of interest with Program Officer**：　Yes　　No

Reason (if a conflict of interest exists):

(e.g.) I am collaborating with Program Officer on Project XX (20XX - 20XX) and fall under (d) of the Interested Party Requirements set forth in 2.8.2(1).

1. **Conflicts of interest with Area Advisors**：　Yes　　No

Name of area advisor with whom you have a conflict of interest： Name

Reason (if a conflict of interest exists):

(e.g.) I am currently collaborating with an Area Advisor on Project XX and fall under (d) of the Interested Party requirements set forth in 2.8.2(1).

### Participation of Co-principal Investigator who belongs to an institution related to the Principal Investigator (e.g., an institution established based on the research results of the Principal Investigator, etc.)

The institution related to the Principal Investigator：　Yes　　No

Name of the relevant institution (Name of Co-principal Investigator)：　XX *Corporation (Taro Kagaku)*

Reason (if any):

(e.g.) The institution was established based on the research results of the Principal Investigator and falls under a. of the requirements specified in 2.8.2(2).

### Participation of JST-funded corporate research groups

Participation of JST-funded corporate：　Yes　　No

Name of the relevant institution (Name of the Principal Investigator)：　XX *Corporation (Taro Kagaku)*

Name of the relevant institution (Name of Co-principal Investigator)：　XX *Corporation (Taro Kagaku)*

### (Only if applicable) Special note regarding the research applicant's effort

\*Please describe any circumstances that require the R&D applicant to spend work time (effort) on special assignments, etc. (e.g., specific on-campus or in-house work).

### Other Special Notes

\*Please detail any concerns you have about the evaluator making the selection.

\*Other (e.g., planned transfers, etc.)

# Confirmation sheet to be used prior to submission

(Attachment)

# (please delete upon submission)

|  |  |  |
| --- | --- | --- |
| Main points to be checked | Where to find references | checkbox |
| Is the researcher registered in e-Rad (not only the Principal Investigator, but also the principal co-investigator)? | Application Guidelines,  “Chapter 5.” |  |
| Have you completed a program on research ethics education? | Application Guidelines,  “Chapter 4.4.1” |  |

**○ Submission Deadline**

The e-Rad system is overloaded at the deadline, and there have been problems with applications taking a long time or not being completed. Please keep sufficient time to complete your application.

**○ About each form**

Proposals should be submitted after checking for any omissions. Please note that proposals that are incomplete (e.g., excessive number of pages, garbled text that makes peer review difficult, etc.) will not be accepted. When submitting proposals, please convert them to PDF format.

|  |  |  |  |
| --- | --- | --- | --- |
|  | item | Main points to be checked | checkbox |
|  | Data input to e-Rad | Are there any omissions, or are there no more than 3 MB size as converted to PDF? |  |
| Form 1 | Cover page of R&D Proposal | Are there any omissions, or are there no more than 2 pages as converted to PDF? |  |
| Form 2 | Summary of R&D Proposal | Is it less than one page as converted to PDF?  Is the text 10.5 point or larger? |  |
| Form 3-1 | Overall Plan of R&D Project | Is it less than 6 pages as converted to PDF?  Is the text 10.5 point or larger? |  |
| Form 3-2 | System and Schedule for Fundamental Research | Is it less than 2 pages as converted to PDF? |  |
| Form 4-1 | R&D implementation system 1 | Are there any omissions, or are there no more than 2 pages as converted to PDF? |  |
| Form 4-2 | R&D implementation system 2 | Are there any omissions, or are there no more than 2 pages as converted to PDF per joint research group? |  |
| Form 5 | R&D Budget Plan（Fundamental Research） | Does the total match the total research costs on Form 1? |  |
| Form 6-1 | List of Achievements (Principal Investigator) | Is it less than 3 pages as converted to PDF?  Have you followed the instructions for filling out the form? |  |
| Form 6-2 | List of Achievements (Co-principal Investigator) | Is it less than 2 pages as converted to PDF?  Have you followed the instructions for filling out the form? |  |
| Form 7 | Research grants from other systems, etc. | Are there any omissions (especially “Efforts”)? |  |
| Fomr 8 | Special Note | Are there any omissions (especially conflicts of interest with the evaluator)? |  |