# FY 2024 Application PRESTO "Dual Biological Potentials" Research Proposal

(PRESTO - Form 1)

* Fill in form 1 within one page of A4 paper (observe strictly).
* You may delete notes in blue in this and other forms. When information entered in e-Rad is different from that in research proposal documents, the latter will be considered correct.

|  |  |
| --- | --- |
| Research Area | Multiscale and interdisciplinary approaches to investigate mechanisms of resilience and diversification across wide ranges of spatiotemporal metrics |
| Title of  proposed research project | When the theme is in English, describe the theme in Japanese (about 20 characters) along with the English theme |
| Name of Applicant |  |
| Affiliated Institution, Section, Title | Enter correctly without any omission. (i.e., describe Graduate school, Department, Majors, XX laboratory, and project/tenure/associate/assistant professor) |
| Academic Background |  |
| Research history (main research content and work history) | Notes: Delete this textbox of notes in submission.   * To describe the Form 1 to 6, please follow the “Instructions for Preparing a Proposal”. Fill in form 1 on one page of A4-size sheet (no exceptions). * Please delete the notes in blue in this and other forms. * In case that information entered in e-Rad is different from that in research proposal documents, that in this research proposal will be considered correct. Moreover, Pay attention to the unit of budget as Thousand Yen. * Research proposals need to be converted to PDF format before being uploaded to e-Rad. Please use the PDF conversion function of e-Rad for conversion. |
| Information of Applicant | URL: |
| Research Period | From October 1st, 2024 to March 31st, 2028, 3.5 years  □ Please check the box and make changes the duration if necessary. |
| Total Research Budget | Total Budget: 　　　thousand yen |
| Site for conducting research (planned site entered in the contract with JST) | □present affiliation □other ( ) |

(PRESTO - Form 2)

# Research Proposal Overview

## Outline

* In Form 2, Provide an overall description of the research proposal within one page of A4-size sheets (no exceptions). Use 10.5 point or larger font size (If these instructions are not followed, the research proposal might not be accepted). Unlike form 3-1 (project description), it is not allowed to cite numbers of papers that are shown in the list of achievements (form 4).
* For the facilitation of comprehension by evaluators, please include figures and tables (color is acceptable) as necessary.

(PRESTO –Form 3-1)

# Project Description

* + For the facilitation of comprehension by evaluators, please include figures and tables (color is acceptable) as necessary.
  + For Form 3-1, do not exceed six pages of A4-size sheets (no exceptions). Use 10.5 point or larger font size (If these instructions are not followed, the research proposal might not be accepted).
  + In this form of project description, make effective references to the descriptions of achievements listed in Forms 4 to clarify the relationship between the achievement and the research being proposed by the research project applicant. In making the references, the numbers listed in Forms 4 can be quoted in this form.

## 1．Background and Objective

## 2．Target of proposed research project (within 60words)

## 3．Research Plans and Approach

## 4．Originality and novelty of the proposed research and comparison to current state of similar studies

## 5．Future Prospect of Research

(PRESTO – Form 3-2)

# Research Schedule

* For Form3-2, describe on one page of A4-size sheet (no exceptions). If this instruction is not followed, the research proposal might not be accepted.
* See the example below and enter the schedule of the proposed research project.
* If proposed project consists of several research subthemes, state clearly schedules of each subtheme.
* Length, setting, thickness of an arrow can be changed.

|  |  |  |  |  |  |  |  |  |
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| Research Subjects | 2024  Fiscal year  (6 months) | | 2025  Fiscal Year | | 2026  Fiscal Year | | 2027  Fiscal Year  (12months) | |
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(PRESTO – Form 4)

# Research Achievements

**【author notation in English papers by the applicant：（example）*Taro Gijyutsu*】**

* In performing selection, evaluators (research supervisor, research area advisor) sometimes search through publication databases to check achievements in detail. This requires the entry of the applicant’s full name for publication [author notation in English papers by the applicant].
* In Form 4, Provide Research Achievements within three pages of A4-size sheets.

# Information on Other Supports

(PRESTO – Form 5)

**[Notes]**

* When Researchers are receiving, apply for, or plan to apply for competitive national funding programs (including CREST / PRESTO / ACT-X, AMED-CREST, PRIME) and other research grants (including private foundations and overseas institutions) (\*), fill in the research project name, research period, role, amount of research expenses received by the individual, and effort and then describe differences and relevance to this proposal below. Please refer to” 8.1 Measures against Unreasonable Duplication and Excessive Concentration” and “9 Limitations on Multiple Applications within the Strategic Basic Research Programs” of the application guidelines. Due to unavoidable circumstances, e.g. confidentiality agreement, it is possible to submit without filling in the items other than effort. (This research proposal will be provided to outside experts during the screening process.)
* Enter this proposed PRESTO project first, followed by other research projects in a descending order of the amount of research funds (for the whole period, only direct cost) the applicant receives.
* Add rows if needed.

(\*) In consideration of the guidelines stipulated in the " Integrated Innovation Strategy 2020," which mandates “disclosure of information on the status of acceptance of foreign funds is a requirement when applying for research funds.”, commencing from the FY 2021 call for proposals, it is explicitly stated that applicants must also provide information on research funding from overseas sources in the section concerning the "Existence of Grants or Assistance from Other Institutions" (or in some cases, "Status of Research Fund Application/Receipt"). 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.

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| **No.** | **Program**  **(Name of Institution)** | **Status** | **Title of Project**  **（Name of Principal investigator）** | **Research Period** | **Role**  **(Principal Investigator or co-Principal Investigator)** | **Research Fund Received**  **(1) Allocated Budget**  **(For entire period)**  **(2) FY 2024 (planned)**  **(3) FY 2023 (actual)**  **（Thousand yen/unit）** | **2024**  **FY**  **Effort**  **(％)** |
| - | PRESTO  (This application) | Sub-mitted | Enter the effort ratio in the right box →→→→→→ | | | |  |
| (1) |  |  |  |  |  | (1)  (2)  (3) |  |
| (2) |  |  |  |  |  | (1)  (2)  (3) - | -- |
| (3) |  |  |  |  |  | (1)  (2)  (3) |  |

(Describe appropriately based on the actual practice. If you are, in particular, willing to conduct research as an associate researcher at JST, read thoroughly the Application Guideline, Section 3.2.7, "Types of PRESTO participation” and describe the appropriate efforts.)

* Differences and relevance between the research (1) and this proposal

In research study (1), ... will be implemented. On the other hand, this proposed study will implement .... Therefore, the objectives are different in terms of ....

* Differences and relevance between the research (2) and this proposal

In research study (1), ... will be implemented. On the other hand, this proposed study will implement .... Therefore, the objectives are different in terms of ....

* Differences and relevance between the research (3) and this proposal

In research study (1), ... will be implemented. On the other hand, this proposed study will implement .... Therefore, the objectives are different in terms of ....

* (Note) If it is difficult to describe the detailed information due to unavoidable circumstances, such as content of a confidentiality agreement, etc., please state the circumstances.

(PRESTO – Form 6)

# Other Special Remarks

* In Form 6, provide an overall description of other special remarks in less than three A4-size sheets (no exceptions). If this instruction is not followed, the research proposal might not be accepted).
  + Please refer to “Chapter 5, 5.1.2 (2)” in the application guidelines and state whether you have a conflict of interest.
* Until previous years, research applicant who had a conflict of interest with the research supervisor were excluded from selection, however this will be abolished from FY2024. (refer to Ch 5.1.1)

## Conflict of interest between the applicant and evaluators

**a. Conflict of interest between the research applicant and the research supervisor:**

YES  NO

*Note that Indicate YES or NO according to the conditions. Clearly show to which conditions conflict of*

*interest shall apply, if YES.*

The research applicant conducted joint research with the research supervisor on **??? project**

**(20xx-20xx)**. It comes under condition (d) for conflict of interest stipulated in 5.1.2(2) ①.

**b. Conflict of interest between the research applicant and the research area advisor(s):**

YES  NO

*Note that Indicate YES or NO according to the conditions. Clearly show to which conditions conflict of*

*interest shall apply, if YES.*

Research area advisor with conflict of interest: (The Advisor’s Name)

The research applicant is conducting joint research with the advisor in \*\* project. It comes under

conditions (d) for conflict of interest stipulated for 5.1.2(2)①.

## Investment to the affiliated Institution from JST

Current investment by JST: No or Yes (If Yes, please write down the detail.)

**The affiliated Institution is invested from JST:**

YES  NO *If Yes, please write down the detail.*

The name of Institution: XXXXXX (president: YYYYYY)

## (Only for those relevant) Reasons why the applicant desires to conduct research at an overseas research organization

(1) Reasons for conducting research at the overseas research organization.

・Please provide specific explanations for the necessity of conducting research at overseas institutions in order to realize research concepts*.*

・Only those researchers who are engaged in some other research are permitted to reside at an overseas research institute. From the viewpoint of health and safety management, etc., it is not possible for PRESTO exclusive appointment researcher to conduct research at overseas research institution.

1. Contact person responsible for research contracts at the overseas research organization

Enter name, affiliation, e-mail address, and telephone number.

(3) Preparatory Considerations

　Please verify the following items.

|  |  |
| --- | --- |
| Checklist | items |
| The overseas research institution to serve as the research implementation site, intends to agree on the following matters (refer to the Collaborative Research Agreement for details)  ・Indirect costs shall not exceed 30% of the direct costs in the expenditure of research funds provided by JST.  ・A financial report detailing the utilization of research funds shall be submitted in accordance with the prescribed format by JST. Compliance with the expenditure items designated by JST in the financial report is required. |  |
| If the applicant is a postdoctoral researcher affiliated with an overseas research institution, does the supervisor of their affiliated laboratory acknowledge the execution of the proposed research upon its acceptance? |  |

## (Only for those who desire to be hired by JST to pursue PRESTO research) Plan of engagement in PRESTO research with exclusive appointment

・See instructions for Application Guideline “3.2.7 Types of PRESTO participation.” Those who desire to be engaged in PRESTO research hired by JST, should enter (1)-(3) below. We will check the details at interviews for selection.

・The submission of the document titled 'Assignment of Full-time Researchers to Other Institutions' is required separately.

1. Reasons why the applicant must retire from the present position before starting the research
2. Job Hunting Situation
3. Planned participation in CREST or ERATO as JST-hired researcher

(4) Planned another work for the research Grant-in-Aid from JSPS (called KAKENHI) *, etc.*

## (Only for those relevant) special notes for efforts by an applicant

　Enter the situation and reasons when an applicant needs work hours (effort) for special duties (work of the academic committee or private company job, etc.).

## The other special remarks:

* + If you are submitting multiple applications for the same research area, please describe the differences from the previous proposal.
  + If you have any plans for a change, please let us know.
  + Please feel free to use any other information such as describing your enthusiasm for this research proposal.

# Proposal Preparation Checklist

(PRESTO – Attachment)

**※This checklist should be deleted in submission※**

|  |  |  |
| --- | --- | --- |
| Check | Reference Material | Check |
| Have you completed e-Rad researcher registration? | Chapter 10 | □ |
| Have you completed the educational program on research integrity? | Chapter8 8.32 | □ |
| Have you confirmed not to violate the conflicts on multiple applications limitations (incl. AMED program)?  ※A scope of the multiple applications limitation has been updated from 2021. | Chapter 9 | □ |
| Have you satisfied the requirements for research institutions conducting PRESTO research, and prepared the separate from? (only for exclusive appointment PRESTO researchers) | Chapter3 3.2.6(2) | □ |

**○ Deadline for Submission**

Immediately before the deadline, e-Rad may suffer high system burden. As a result, the application may take a long time, and troubles, including the failure to complete the application, may occur. Try to complete the application well in advance.

**○Forms**

Check the proposal documents for possible omissions before submission. A proposal application may not be accepted if relevant forms have been filled out incorrectly.

Use PDF conversion function on e-Rad when converting to PDF format.

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|  | Item | Main Check Point | Check Column |
|  | Input of general information on the applicant to e-Rad | All necessary information is provided. File sizes should not exceed 3MB in total in PDF format. | □ |
| Form 1 | Cover of research proposal documents | All necessary information is provided.  Information is matched with e-Rad data.  The form 1 is within one page when converted PDF | □ |
| Form 2 | Research Proposal Overview | When converted to PDF format, the form 2 is no more than one pages long? 10.5 point or larger font? | □ |
| Form 3-1 | Project Description | The form 3-1 is within six pages when converted PDF.  10.5 point or larger font? | □ |
| Form 3-2 | Research schedule | The form 3-2 is within one page when converted PDF. | □ |
| Form 4 | Research Achievements | The form 4 is within three pages when converted PDF. | □ |
| Form 5 | Information on Other Supports | All necessary information is included. Particular mention of efforts related to this proposal (PRESTO) | □ |
| Form 6 | Other Special Remarks | The form 6 is within three pages when converted PDF. | □ |