# FY 2022 Application PRESTO Research Proposal for Multisensory Integration in Biological Systems

(PRESTO - Form 1)

\*This is an application form for JST’s PRESTO: “Multisensory Integration in Biological Systems” area. Please note that this form is different from AMED’s one.

|  |  |
| --- | --- |
| Research Area | **Multisensory Integration in Biological Systems** |
| Title of  proposed research project | *When the title is in English, describe the title also in Japanese (about 20 characters) along with the English title* |
| Name of Applicant |  |
| Affiliated Institution, Section, Title | *Describe the affiliation and title accurately without any omission. (i.e., describe Graduate school, Department, Majors, XX laboratory, and project/tenure/associate/assistant professor).* |
| Academic Background | ***Notes: Delete this textbox of notes in submission.***  ***To describe the Form 1 to 7, please follow the “Instructions for Preparing a Proposal”.***  ***Fill in Form 1 on one page of A4-size sheet (no exceptions).***  ***You may delete notes in italics (slanting characters) 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. Moreover, Pay attention to the unit of total budget (i.e., 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.*** |
| Professional Appointments and Awards |  |
| Information of Applicant | URL: |
| Research Period | From October 1st, 2022 to March 31st, 2026, 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 2-1)

# Research Proposal Overview

## Outline

*・In Form 2-1, Provide an overall description and “Graphical Abstract” regarding the research proposal in two or less 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 2-2, form 4).*

<Graphical Abstract; A single figure representing the proposed research>

(PRESTO – Form 2-2)

# Major Achievements of the Applicant

## List of principal research papers / invited lectures

*・In Form 2-2, on one page of A4-size sheet (no exceptions), list your principal research papers and invited lectures (If this instruction is not followed, the research proposal might not be accepted).*

*・Adjustment to font size and line spacing is acceptable.*

**(1) List of principal research papers（within 5 papers）**

**(2) List of principal invited lectures（within 5 lectures）**

(PRESTO –Form 3-1)

# Project Description

*・Clearly state the work to be undertaken. Figures and tables (in color) may be included if necessary.*

*・For Form 3-1, do not exceed six 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 the forms 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

*In 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.*

*-Enter the schedule of the proposed research project.*

*(The following is an example of 3.5 years research period.)*

*-If proposed project consists of several research subthemes, state clearly schedules of each subtheme.*

*-Length, position and thickness of arrows can be changed.*

|  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Research Subjects | 2022  Fiscal year  (6 months) | | 2023  Fiscal Year | | 2024  Fiscal  Year | | 2025  Fiscal Year  (12months) | |
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(PRESTO – Form 4)

# List of Achievements/Ex-Post Evaluation Results

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

## 1．Principal papers, books, and other publications

## 2．Research papers/publications other than the above

## Major Patent

[describe the below]

* Submission No, Inventors Name, Title, Affiliation, Submission Date

## 4．Ex-Post evaluation of research themes that the research applicant represented in other systems of competitive research funds

|  |  |  |  |
| --- | --- | --- | --- |
| Number | Research  Program | Research Project  (Fiscal Year Implemented) | URL of website with Ex-Post evaluation result |
| **1** |  |  |  |
| **2** |  |  |  |

# Information on Other Supports

(PRESTO – Form 5)

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| **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 2022 (planned)**  **(3) FY 2021 (actual)**  **（Thousand yen/unit）** | **2022**  **FY**  **Effort**  **(％)** |
| - | PRESTO  (This application) | Sub-mitted | *Enter the effort ratio data in the right box. 🡪 🡪 🡪* | | | |  |
| (1) |  |  |  | － |  | (1)  (2)  (3) |  |
| (2) |  |  |  | － |  | (1)  (2)  (3) |  |
| (3) |  |  |  | － |  | (1)  (2)  (3) |  |

[Notes]

* Enter the research project, research period, role, amount of research funds received, and effort for each research project concerning competitive national funding programs (including CREST, PRESTO, ACT-X, AMED-CREST, PRIME) or other research aids (all current research funds for individual research subjects, such as subsidies, grants, joint research funds, contract research funds, etc., including those from overseas) from which the applicant is receiving funds or for which an application is being or is planned to be made. Also see application guideline “8.1 Chapter 9 Key Points in Submitting Proposals.” and “Limitations on the Multiple Application within the Strategic Basic Research Programs.” 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.)
* A proposal that was once adopted may be revoked if an entry differs from reality.
* JST may ask for application and plan documents submitted to other systems when a proposal reaches the interview stage.
* Enter this proposed PRESTO theme first, followed by other research themes in a descending order of the amount of research funds (for the whole period, direct costs only) the applicant receives.
* If you want to be engaged in PRESTO research as an exclusive researcher hired by JST, enter desirable effort that is specified in Application Guideline 3.2.7.
* Add rows if needed.

(PRESTO – Form 6)

# Protection of Human Rights and Compliance with Laws and Regulations

It is confirmed that laws and guidelines to be complied with have been understood and drawn up for this research plan. Furthermore, we confirm that laws and guidelines will be complied with in implementing this plan.

|  |
| --- |
| (Examples of laws and guidelines to be followed)  ■“Guidelines for handling dishonest conduct in research activities” (decision by Minister of Education, Culture, Sports, Science and Technology, August 26, 2014, including succeeding revisions)  ■“Guidelines for management and audit of public research fund by research organizations (criteria for implementation), put in effect on February 18, 2007”/revision decided by the Minister of Education, Culture, Sports, Science and Technology, including succeeding revisions”  ■Concerning control for trade security (dealing with technology leaks to overseas parties), foreign exchange and foreign exchange law, laws, ministerial ordinances, and official notices set out by ministries to prevent the results of advanced research from being passed to those who are suspected to conduct activities including applications for military purposes, such as those who develop weapons for mass destruction or terrorist groups  ■Laws of related countries when conducting research overseas (including taking out biological resources) or joint research with an overseas research organization  ■As for research in life science, laws, ministerial ordinances, and ethical guidelines set out by ministries for life ethics and security |

*（Enter a check mark in the box when confirmed）*

Confirmed.

(PRESTO – Form 7)

# Other Special Remarks

*In Form 7, Provide an overall description of other special remarks on two pages or less of A4-size sheets (no exceptions). If this instruction is not followed, the research proposal might not be accepted.*

## Conflict of interest between the applicant and evaluators

*Please be sure to refer to the Instructions for Preparing a Proposal of Strategic Basic Research Programs, and enter a check mark in the boxes when confirmed.*

**a. Conflict of interest between the research applicant and the program supervisor/ 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 (f) for conflict of interest stipulated in 5.1.2(2).

**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 (c) for conflict of interest stipulated for 5.1.2(2).

## Investment to the affiliated Institution from JST

*Please be sure to refer to the Instructions for Preparing a Proposal of Strategic Basic Research Programs, and enter a check mark in the box when confirmed.*

**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

*Explain specific reasons: (a) and (b), why it is necessary for realizing the proposed research plan.*

*(a) Necessity in order to achieve the goal of proposed research*

*(b) Necessity the institute is appropriate for realizing proposed research plan*

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

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

## (Only for those who desire to be hired by JST to pursue PRESTO research)

## Plan of engagement in PRESTO research with exclusive appointment

1. Reasons why the applicant must retire from the present position before starting the research
2. Planned participation in CREST or ERATO as JST-hired researcher
3. Planned another work for the research Grant-in-Aid from JSPS (called KAKENHI)

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

**○Consent to sharing this proposal with AMED**

This research area is cooperative research area with AMED. JST may share this proposal with AMED during the selection process. Please check the box below to confirm your agreement to JST’s sharing this proposal with AMED.

□Agreed

## The other special remarks: Differences from the previous application (in case of applications that have been made to the research area two times or more), Change of research institute affiliation, other special notes

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# 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? | | Section 8.31 | □ |
| Have you confirmed not to violate the conflicts on multiple applications limitations?  ※A scope of the multiple applications limitation has been updated from 2021. | | Section 9 | □ |
| Have you satisfied the requirements for research institutions conducting PRESTO research, and prepared the separate from? (only for exclusive appointment PRESTO researchers) | | Section 3.2.6(2) | □ |
| Conflict of interests with the Program Supervisor and the Research Supervisor\* | | Section 5.1.1 |  |
| A | The research project applicant is a relative of the Program Supervisor and the Research Supervisor. | | No □ |
| B | The research project applicant and the Program Supervisor/the Research Supervisor are both affiliated with the same smallest organizational unit (e.g. same research lab) of a university, national or other national government-funded research and experiment institution. Or, the research project applicant and the Research Supervisor are affiliated with the same company. | | No □ |
| C | The research project applicant and the Program Supervisor/the Research Supervisor are presently working in close cooperation on the same joint research project. Or, have done so within the past five years. (Existence of close cooperation will be judged by the facts that, for example, the research project applicant and the Research Supervisor are working together on the same research project, are performing different parts of the same research project, or are co-authors of a research paper. If you have any questions, please contact JST) | | No □ |
| D | The research project applicant and the Program Supervisor/the Research Supervisor had been in a close teacher-student relationship for a total of more than 10 years (not necessarily continuous), or had been in a direct employer-employee relationship. “Close teacher-student relationship” means cases in which the research project applicant and the Research Supervisor were affiliated with the same research lab, and cases in which the Research Supervisor, though affiliated with a different organization, essentially functioned as a research advisor for the research project applicant. | | No □ |

**\***When it is unclear whether any of the above conditions apply, please download and fill the Inquiry Form via the following URL: http://www.jst.go.jp/kisoken/boshuu/teian/koubo/inquiry\_en.docx

Please send it via email to [rp-info@jst.go.jp](mailto:rp-info@jst.go.jp).

**○ 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.

|  |  |  |  |
| --- | --- | --- | --- |
|  | 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 2-1 | Research Proposal Overview | When converted to PDF format, the form 2-1 is no more than two pages long? 10.5 point or larger font? | □ |
| Form 2-2 | Major Achievements of the Applicant | The form 2-2 is within one page when converted PDF | □ |
| Form 3-1 | Project Description | The form 3-1 is within six pages when converted PDF.  10.5 point or larger font?  **Is a graphical abstract drawn?** | □ |
| Form 3-2 | Research schedule | The form 3-2 is within one page when converted PDF. | □ |
| Form 4 | List of Achievements / Ex-Post Evaluation Results | All necessary information is included with following the “Instruction for Preparing a Proposal”. | □ |
| Form 5 | Information on Other Supports | All necessary information is included. | □ |
| Form 6 | Protection of Human Rights and Compliance with Laws and Regulations | The column is already checked. | □ |
| Form 7 | Other Special Remarks | The form 7 is within two pages when converted PDF.  The column on “Consent to sharing this proposal with AMED” is already checked. | □ |