

**FY2024**  
**Broadening Opportunities for Outstanding young  
researchers and doctoral students in Strategic area  
(BOOST)**  
**Fostering Researchers in Emerging AI Program  
(Support for Young Researchers)**  
**Instructions for Preparing a Research Application**

[To make application, the researcher ID must be registered on the e-Rad.](#)

- (Note 1) Please note that applications uploaded to the e-Rad containing deficiencies that make reviews difficult will not be accepted. "Deficiencies that make reviews difficult" include missing any of the application forms (especially Form 1: Cover of Research Application Document), garbled text that causes difficulty in reading, and significant omissions of items in the application. JST assumes no responsibility for any inadequacies in the application documents that occur before the deadline irrespective of acceptance or rejection of applications. Therefore, please be aware that JST will neither make any amendments to the application upon prior confirmation by the applicant nor request any amendments to the application prior to the deadline. In addition, it is not possible to withdraw the application on the e-Rad after the deadline.
- (Note 2) If the described information of the items common in both the e-Rad and the research application is different, the information in the research application will be considered correct in principle.
- (Note 3) Research application documents may be written in either Japanese or English. At the interview screening, the applicant himself or herself is asked to explain the research plan. In principle, the interviews are conducted in Japanese, however if the applicant has difficulty in Japanese conversation, interviews in English are also possible, as described in chapter 2.8.2 b. of the Application Guideline,

## Requirements for Completing Research Application (Forms)

A list of documents to be submitted is as follows. Please prepare a research application following the instructions for completing the research application forms on the following pages. Please be sure to use the forms for this fiscal year for your application.

Form No.	Document
Form 1	Cover of Research Application Document (1 page)
Form 2-1	Research Application Overview (2 pages or less)
Form 2-2	Applicant's Competence to Execute Research (2 pages or less)
Form 3	Research Plan (6 pages or less)
Form 4	Research Budget
Form 5	List of Achievements / Research Representation History
Form 6	Information on Subsidies from Other Programs
Form 7	Special Remarks (3 pages or less)

\* File size should not exceed 3MB.

\* For more information on how to submit research applications, please refer to "Chapter 5: How to Apply Using the Cross-ministerial R&D Management System (e-Rad)" in the Application Guidelines.

\* To make an application, please be sure to read and understand "Chapter 4: Key Points in Submitting Proposals " of the Application Guidelines.

## FY2024 BOOST (Young Researchers) Research Application Document

\* **Form 1 must be completed on one page of A4 paper (strictly observed).**

\* Please delete the notes written in blue from this form and others.

\* In case that information entered in the e-Rad is different from that in this research application documents, that of the research application document will be considered correct in principle.

Research project title (about 10 words)	* In case of the English title (about 10 words), please also write together the Japanese title (about 20 characters).
Name of applicant	
Institution of Cross-appointment destination (Location of research conducted and be contracted with JST)	* Describe correctly without abbreviations, like "Graduate School, XX Department, Major in XX", "Specially Appointed Associate Professor", etc. Please note not to miss the graduate school notation. * If not decided yet, please write "Undecided".
Coordination status with cross-appointment destination institution	<input type="checkbox"/> Already concluded the employment contact of cross-appointment. <input type="checkbox"/> In negotiation with cross-appointment destination institution. <input type="checkbox"/> Not negotiated yet. * Please check the appropriate status.
Institution of Cross-appointment originating, section, title	* Describe correctly without abbreviations, like "Graduate School, XX Department, Major in XX", "Specially Appointed Associate Professor", etc. Please note not to miss the graduate school notation.
Ph.D. degree information and educational background	20XX Graduated from Faculty of XX, XX University, 20XX Completed Master's course, XX Major, Graduate School XX , XX University, 20XX Completed Doctoral course, XX Major, Graduate School XX, XX University, Date of Ph.D. acquisition: MM/DD/YYYY at Graduate School XX, XX University, Type: XX Doctorate of Studies (X years after Ph.D. acquisition on April 1, 2024)
Research history (Main work history and research details)	20XX-20XX Assistant Professor, Faculty of XX, XX University Research on XXXX in Professor XX laboratory. 20XX-Present XX Research Institute Researcher Engaged in research on XXX at XX doctoral laboratory.
Information of applicant	URL: Please provide the URL of the website (researchmap, laboratory, etc.) that contains information on the applicant.
Total research budget	Total research budget during entire period (XX,XXX thousand yen) (Do not include a decimal point. Please note that the units are in [thousands of yen]. Make sure it does not exceed the upper limit. (ex.) 6 million yen in total is 6,000 thousands of yen.)

- \* If you newly make a cross-appointment upon applying for this program (if you have not made a cross-appointment as of the application deadline), the location of your research must be the cross-appointed institution.
- \* If you have already made a cross-appointment as of the application deadline, you are able to choose the institution where you will conduct your research. In that case, please enter information about the institution where your research will be conducted in the "Cross-appointed institution, department, and position (where you will conduct your research will be the institution who will conclude the research agreement with JST)" into the "Institution of Cross-appointment destination" field, and enter information about the other institution in the "Institution of Cross-appointment originating, section, title" field.

## Research Application Overview

### ○ Overview

- \* In Form 2-1, please provide the overview of the research application on **no more than two pages of A4 paper (strictly observed)** using characters of 10.5 points or more (If these instructions are not strictly adhered to, the research application may not be accepted). Please note that unlike Form 3 (Research Plan), you cannot cite the numbers assigned to the papers, etc. in the List of Achievements (Form 2-2 and Form 5).
- \* In this Form, please provide brief descriptions focusing on the contents corresponding to the item "1. Background and Objectives" of the Form 3 (Research Plan), and keep the descriptions corresponding to the items 2. to 5. to a minimum just sufficient to assist understanding. The scientific and technical evaluation of the validity and feasibility of the research plan is conducted based mainly on the Form 3.
- \* Please include diagrams and tables (in color allowed) as necessary to assist the evaluators' understanding.

## Applicant's Competence to Execute Research

- In Form 2-2, please provide a list of principal papers on no more than two pages of A4 paper (strictly observed). (If it is not strictly adhered to, the research application may not be accepted.)
- You may adjust font size and line spacing.

### 1. Summary of principal papers and the contributions of the applicant (3 items or less)

<example in case of papers>

Title of the published paper, Publication, Volume/Page/Year of Publication, Name of the First Author, When the applicant is one of the co-authors (position number/total number of authors), name of the Last Author.

- Select and list no more than three principal papers of the applicant from the Form 5, section "1. Principal papers, books, patents and other publications".
- List the published items in the reverse chronological order from the present to the past.
- Add sequential numbers at the beginning of each line.
- The following items of the paper should be included (in the case of books, follow the same guideline). The order of the items can be chosen freely.

[Items to be included]

Title of the published paper, Publication, Volume/Page/Year of Publication, Name of the First Author, When the applicant is one of the co-authors (position number/total number of authors), name of the last author, (\* Indicate the corresponding author with \*, the First Author is 1, enter (1/1) in case of single author)

Example: Taro Science\*, the Applicant (3/15), Hanako Souhatsu

Example: the Applicant(1/10), Hanako Souhatsu\*

Example: Taro Science, Hanako Souhatsu, the Applicant\* (15/15)

- Provide a brief description on the following regarding the research for each paper (describe under the descriptions of each paper). Also, please write down the contribution of the applicant in each case.

[Items to be included]

What did the research reveal, what were the difficulties in conducting the research, and how were these difficulties overcome?

### 2. Supplementary Information / Appeal Points

- Please provide any supplementary information or appealing points that you would like to make in promoting the research.

## Research Plan

- Please describe in such a way that the evaluator can easily understand. For that purpose, please use diagrams and tables (in color allowed) as necessary.
- Please complete **Form 3 on no more than six pages of A4 paper (strictly observed) using characters of 10.5 points or more** (If these instructions are not strictly adhered to, the research application may not be accepted).
- In this Research Plan, please make sure that the relationship between the applicant's own achievements and the research application is clarified by appropriately citing the contents of Form 5 as necessary. The numbers assigned to the papers / books in Form 5 may be used for citation.

### 1. Research Background

- Please explain the background and circumstances that led you to this Research Plan and the reason why you intend to implement it.

### 2. Target of proposed research project \*within 60 words

- Describe briefly (within 60 words) the research target at the end of the proposed research project.

### 3. Research Plans and Approach

- Describe specific research items and how to advance them (including problems and solutions for each main research item predicted in achieving the objectives stated in the previous item).
- When describing research methods, compare the adopted method with existing ones and discuss the reasons why the technique has been selected.
- When presenting the description, use preliminary findings and data as evidence for advancing research.

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

- Consider the present state and trends of research in related fields in Japan and overseas to clearly show the position in the world, originality, novelty, and superiority of this research plan. Mention specific contents of competing research as required.

### 5. Future Prospect of Research

- Please describe how the achievement of this research concept can contribute to Japan's emerging AI field in the future.

## Research Budget

- \* Please fill in a research budget plan with each item of expenditure for every fiscal year.
- \* Separate personnel expenses and honorariums into “cross-appointment personnel expenses” and “other personnel expenses and honorariums.”
- \* When accounting for “cross-appointment personnel expenses,” please reference “3.3.1 Research Costs (Direct Costs)” in the Application Guidelines.

### 1. Research Budget Plan in Item (Entire Team)

	1 <sup>st</sup> Year 2025.1~ 2025.3	2 <sup>nd</sup> Year 2025.4~ 2026.3	3 <sup>rd</sup> Year 2026.4~ 2027.3	4 <sup>th</sup> Year 2027.4~ 2028.3	5 <sup>th</sup> Year 2028.4~ 2029.3	Final Year 2029.4~ 2029.12	Total (Thousand yen)
<b>Equipment</b>							
<b>Materials/ Consumables</b>							
<b>Travel</b>							
<b>Cross-Appointment Personnel Expenses</b>							
<b>Other Personnel Expenses and Honorarium</b>							
<b>Other</b>							
<b>Total</b> (Thousand yen)							

< Notes on writing research budget plans >

- \* A more detailed budget plan will be requested when the proposal proceeds to the interview screening.
- \* The budget plan, after adopted, may be revised during the research period according to the state of the project, Research Area policy, and project evaluation, etc.

< Budgeted costs are itemized as follows >

- \* **Equipment:** Cost for tangible properties with relatively expensive.

- \* Materials / Consumables: Cost for purchasing materials and consumables.
- \* Travel: Travel expenses of the PI or participants.
- \* Cross-Appointment Personnel Expenses: Personnel expenses of the PI provided by the Cross-Appointment Institution.
- \* Other Personnel Expenses and Honorarium: Personnel Expenses and Honorarium for postdoctoral researchers, technicians, research assistants (RA), etc., other than Cross-Appointment Personnel Expenses.
- \* Other: Costs other than the above (e.g., printing, equipment lease, freight costs, etc.)

## **2. Remarks on the research budget**

Describe any remarks on applicable items if necessary, when a large amount of labor cost, travel cost, or the like is required.

## List of Achievements / Research Representation History

[Name of the applicant as it appears as the author of papers in English: (example) Taro Kagaku]

During the document screening, evaluators (PO, AD, external experts, etc.) may conduct searches of the papers database and confirm the details of your achievements. For that reason, please enter the [Name of the applicant as it appears as the author of papers in English] above correctly with the full name. You may, however, use an abbreviated form such as T. Kagaku when you state the author in the lists described later.

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

<example in case of papers>

Title of the published paper, Publication, Volume/Page/Year of Publication, Name of the First Author, When the applicant is one of the co-authors (position number/total number of authors), name of the Last Author.

- Please describe the important achievements of the papers, books, and other publications published in recent years, in the reverse-chronological order of the year of publication from the present to the past.
- In the description, please put a sequential number at the beginning of each line. The number can be cited in the description of the Research Plan (Form 3).
- The following items of the paper should be included (in the case of books, follow the same guideline). The order of the items can be chosen freely.

[Items to be included]

Title of the published paper, Publication, Volume/Page/Year of Publication, Name of the First Author, When the applicant is one of the co-authors (position number/total number of authors), name of the author listed last, (\* Indicate the corresponding author with \*, the First Author is 1, enter (1/1) in case of single author)

Example: Taro Kagaku\*, the Applicant (3/15), Hanako Souhatsu

Example: the Applicant(1/10), Hanako Souhatsu\*

Example: Taro Kagaku, the Applicant\* (15/15)

### 2. Primary invited lectures and other speaking engagements

- Please describe the primary invited lectures given by the applicant in the reverse-chronological order of the year of presentation from the present to the past. (Only if such engagements were made.)
- In the description, please put a sequential number at the beginning of each line.

### 3. Primary awards history

- Please describe the primary awards history of the applicant in the reverse-chronological order of the year of presentation from the present to the past.
- In the description, please write the award name (Minister of Education, Culture, Sports, Science and Technology awards, Nice Step Researcher Award, etc.) and put a sequential number at the beginning of each line.

## Information on Subsidies from Other Programs

- \* With regard to the national competitive funding program and other research grants (including those from private foundations and foreign organizations) that the applicant is currently receiving, applying for, or intends to apply for funding, please describe the title of the research project, the duration of the research, the role of the applicant, the amount of research funding (direct costs) that the applicant will receive, and the effort ratio for each research program. Please also refer to "4.2 Measures against Unreasonable Duplication and Excessive Concentration" in the Application Guidelines.
- \* Please make sure to list your BOOST proposed project first, then other research projects in order of the amount of research funding you have received (for the entire period, direct expenses only).
- \* Please add or remove rows as necessary.

No	Program Name	Status	Research Project Title (Name of the Representative)	Research Duration	Role Primary/ Joint	(1) Research Funds Received (Whole term) (2) “ (FY2025 plan) (3) “ (FY2024 plan) (4) “ (FY2023 result)	FY2024 Effort (%)
-	BOOST Young (This Application)	Applied	This application. Please fulfil the effort in the Right Box.				50
(1)	Scientific Research Grant (Fundamental Research C)	Awarded	XX (XX)	4/2022 – 3/2025	Primary	(1) 3,000K Yen (2) 0K Yen (3) 1,000K Yen (4) 1,500K Yen	20
(2)	XX Foundation XX Research Grant	Applied	XX (XX)	9/2024 – 3/2026	Joint	(1) 900K Yen (2) 500K Yen (3) 400K Yen (4) - K Yen	- **
(3)						(1) K Yen (2) K Yen (3) K Yen (4) K Yen	

Fill in the effort percentage in FY 2025 for this program (in the table below).

Program Name	FY2025 Effort (%)
BOOST Young Researchers (This Application)	○○%

## [Notes]

- \* All work hours of the researcher do not refer only to the time spent on research activities, but also to all actual work hours, including educational activities and administrative duties. In case of unavoidable circumstances, for example, it is difficult to fill in some columns based on the concluded confidentiality agreement, etc., it is possible to submit without filling in the items other than the columns of effort.
  - If the information provided is not true, it may be revoked at a later date even if it is selected.
  - If you are subject to an interview selection, you may be asked about above description in detail.
  - Please make sure to list the other research programs in the order of the larger amount of research funds you receive (for the whole term).
  - Please add or remove rows as necessary.
  
- \* We have clarified that, when filling an application, the applicant needs to describe any research funding from any overseas sources in the form "Availability of aid etc. from any other program", taking into account that "the disclosure of the information on the status of acceptance of any funding from any overseas source" is made mandatory at the time of application for any research funding" in the "Integrated Innovation Strategy 2020."
  
- \*\* Fill in "-" if your "Status" in a program is "Applied" for other programs.

## Special Remarks

\* Please complete Form 7 on no more than three pages of A4 paper. (If it is not strictly adhered to, the research application may not be accepted).

\* Refer to "2.8.3 Conflict of Interest Management" in the application Guidelines for conflict of interest.

### ○ Conflict of interest between the applicant and the reviewer

Check the appropriate Box and enter comments.

- Conflict of interest with the Program Officer (PO) : Yes No

Reason (if a conflict exists):

(Example of description) Joint research is being conducted under the \*\*Project (20XX - 20XX) and meets d. of the requirements for conflict of interest management specified in 2.8.3.(1).

- Conflict of interest with the Adviser (AD) : Yes No

Name of the Adviser (AD) and Reason (if a conflict exists):

NAME A :

(Example of description) Joint research is being conducted under the \*\*Project (20XX - 20XX) and meets d. of the requirements for conflict of interest management specified in 2.8.3.(1).

NAME B : ...

<Notes for Entry>

If there is a Conflict of Interest with PO and/or ADs, please [refer to the description in the application guideline "2.8.3 Conflict of Interest Management \(1\) Persons Involved in the Selection Process" to find which items are applied](#), and describe the reason for the interest briefly.

"2.8.3 Conflict of Interest Management (1) Persons Involved in the Selection Process"  
(summary)

- a. Persons, who are relatives of research project applicants:
- b. A person who belongs to the same department, major, etc. at a university or other research institution as the applicant; or a person who is considered to be involved in the management of the university or other research institution to which the applicant belongs; a person who is an officer or other person involved in the management of the university or other research institution; or a person who represents such an institution externally.

- \* The same department, major, etc. here refers to one above the smallest research unit, i.e. a laboratory or research team.
- c. Persons, who belong to the same company as the research proposer or a company that is the parent company of the company to which the person being evaluated belongs
- d. Persons, who are conducting a close collaboration in a research work with research project applicants. (Examples are persons, who are conducting a joint research project or have co-authored a paper with research project applicants, a researcher pursuing the same research objectives as research project applicants, or a co-researcher of the proposal of research project applicants, and others, being recognized those practically affiliated with a research group with which research project applicants are affiliated.)
- e. Persons in a close teacher-student relationship, or in a direct employer-employee relationship.
- f. Persons in academic competition with the research subject of the research proposer or a person who belongs to a company that is in competition in the market.
- g. Persons in other relationships judged by JST to representing conflicts of interest with research project applicants.

### ○ Investment by JST in the affiliated institution

Please indicate whether or not the institution which the applicant is affiliated with falls under the category of an investee company of JST in accordance with the description in "2.8.3 Implementation of Conflict of Interest Management (3) Conflict of Interest with JST" of the Application Guidelines.

Investment by JST:  Yes  No

Name of the Institution:

[Notes for completion]

- \* Please refer to the following website for information on companies in which JST has invested. Please note that companies in which JST has terminated investment are not subject to conflict of interest management and do not need to report such companies.

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

- \* The record date for declaration is the commencement date of the public calling. Please declare if the investment to the company by JST is public as of the record date. If the investment to the company has been determined but not yet made public, there is no need to declare owing to confidentiality within JST.
- \* For more information on the disclosures of the investments by JST, please refer to the following website.

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

### ○ (Only if applicable) Special remarks on the applicant's effort

- \* If the applicant requires work time (effort) for special assignments and the like (specific intramural or internal office work, etc.), please describe the circumstances and reasons.

**○ Other special remarks**

- \* Please indicate if you have plans to be transferred.
- \* Please feel free to use the space provided to express your enthusiasm for this research proposal, within the limits of the specified number of pages.