# FY 2023 Application CREST [MultiSensing] Research Proposal

(CREST - Form 1)

\*This is an application form for JST’s CREST: “Research on multi-sensing biosystems and development of adaptive technologies”. Please note that this form is different from AMEDCREST’s one.

|  |  |
| --- | --- |
| Research Area | Research on multi-sensing biosystems and development of adaptive technologies |
| 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 Research Director |  |
| 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  (After graduation of University) | ***Notes: Delete this textbox of notes in submission.***  ***To fill-in the form 1 to 11, 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.***  ***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  (Research Director) |  |
| Information of Research Director | URL: |
| Research Period | [Oct. 2023] – [mm. yy] |
| Total Research Budget | Total Budget: 　　　thousand yen |

(CREST - Form 2-1)

# Research Proposal Overview

## Outline of Research Project

*・ 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 6, and form 7).*

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

(CREST – Form 2-2)

# Major Achievements of the Research Director

## 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.*

*・Do not include works by Lead Joint Researcher(s).*

**(1) List of principal research papers（within 10 papers）**

**(2) List of principal invited lectures（within 10 lectures）**

(CREST –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 6 (Research Director) and 7 (Lead Joint Researcher) 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

**(1) Target to be achieved in the middle of the research period (within 60 words)**

**(2) Target to be achieved at the end of the research period (within 60 words)**

## 3．Research Plans and Approach

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

## 5．Preparation of fundamental technology

## 6．Future Prospect of Research

(CREST – Form 3-2)

# Project Organization and Research Schedule

*For Form3-2, describe within two or less A4-size sheets (no exceptions). If this instruction is not followed, the research proposal might not be accepted.*

## 1．Project Organization

|  |  |  |  |
| --- | --- | --- | --- |
| Group Name | Name of  Research Director/  Lead Joint Researcher | Affiliation and Title | Title of Research Theme |
|  |  |  |  |
|  |  |  |  |
|  |  |  |  |

## 2．Research Schedule

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

*-The name of “Research Director’s Group”, “Joint Research Group” should be same as those specified in the previous item of this form respectively.*

*-If research subject consists of several research subthemes, state clearly schedules of each subtheme and the organizations to pursue the subtheme.*

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

|  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Research Subjects | 2023  Fiscal year  (6 months) | | 2024  Fiscal Year | | 2025  Fiscal  Year | | 2026  Fiscal  Year | | 2027  Fiscal  Year | | 2028  Fiscal Year  (12months) | |
|  |  |  |  |  |  |  |  |  |  |  |  |  |
| ・  (　　　　 Group) |  |  |  |  |  |  |  |  |  |  |  |  |
| ・  (　　　　 Group) |  |  |  |  |  |  |  |  |  |  |  |  |
| **2．** |  |  |  |  |  |  |  |  |  |  |  |  |
| ・  (　　　　 Group) |  |  |  |  |  |  |  |  |  |  |  |  |
| ・  (　　　　 Group) |  |  |  |  |  |  |  |  |  |  |  |  |
| **3.** |  |  |  |  |  |  |  |  |  |  |  |  |
| ・  (　　　　 Group) |  |  |  |  |  |  |  |  |  |  |  |  |
| ・  (　　　　 Group) |  |  |  |  |  |  |  |  |  |  |  |  |
| ・  (　　　　 Group) |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |  |  |  |
| ・  (　　　　 Group) |  |  |  |  |  |  |  |  |  |  |  |  |
| ・  (　　　　 Group) |  |  |  |  |  |  |  |  |  |  |  |  |

(CREST – Form 4-1)

# Research Project Organization 1

(Research Members of the Research Director’s Group)

*For Form4-1, describe within two or less A4-size sheets (no exceptions). If this instruction is not followed, the research proposal might not be accepted.*

## Research Director’s Group

|  |  |  |
| --- | --- | --- |
| **Research**  **Director** | **Research Institution, Department** | **Title** |
|  |  |  |
| **Research**  **Participants** | **Affiliation, Department**  (Omit if it is same as above) | **Title** |
|  |  |  |
|  |  |  |
|  |  |  |
|  |  |  |

## ○ Research Subjects and Overview

### ・Title of Research Theme：

### ・Research Subjects in Charge：

### ・Overview of the research：

### ・Role in the entire research project：

(CREST – Form 4-2)

# Research Project Organization 2

(Research Members of the Joint Research Group)

*-If a joint research group (joint research institution) other than the Research Director’s affiliated institutions is required, list them in Form 4-2 (this form) per joint research institution.*

*- This form should be described within two or less A4-size sheets (no exceptions) for each joint research group*. *(If this instruction is not followed, the research proposal might not be accepted).*

*- The research expenditures of overseas joint research groups are funded only when the participation of the groups is essential to realize the research concept. Elaborate the necessity in particular detail. Further, such funds are applicable only when the implementation of the research is difficult unless the overseas joint research groups are involved; therefore, describe the grounds. Even if the necessity of such joint research groups is recognized, the research expenditures of the overseas joint research groups may not be funded if the terms and conditions of the contract are not acceptable. In this case, describe a proposal for cooperation (the second-best option).*

## Joint Research Group (1)

|  |  |  |
| --- | --- | --- |
| **Lead Joint Researcher** | **Joint Research Institution, Department** | **Title** |
|  |  |  |
| **Research Participants** | **Affiliation, Department**  (Omit if the same as above) | **Title** |
|  |  |  |
|  |  |  |
|  |  |  |
|  |  |  |

## ○ Research Subjects and Overview

### ・Title of Research Theme of the Joint Research Group：

### ・Research Subjects in Charge：

### ・Overview of the research：

### ・Role in the entire research project and necessity：

### ・Reason of why this group is necessary for this project (applicable only to overseas joint research groups):

* **Necessity of the joint research group for achieving the goal of the project**
* **Availability of specific facility, equipment, environment, etc.**

### ・An alternative proposal for cooperation with the applicable group, in case a contract cannot not be concluded (applicable only to overseas joint research groups):

### ・The state of enforcement of the security trade control (applicable only when an overseas joint research group is involved):

## Joint Research Group (2)

|  |  |  |
| --- | --- | --- |
| **Lead Joint Researcher** | **Joint Research Institution, Department** | **Title** |
|  |  |  |
| **Research Participants** | **Affiliation, Department**  (Omit if the same as above) | **Title** |
|  |  |  |
|  |  |  |
|  |  |  |
|  |  |  |

## ○ Research Subjects and Overview

### ・Title of Research Theme of the Joint Research Group：

### ・Research Subjects in Charge：

### ・Overview of the research：

### ・Role in the entire research project and necessity：

### ・Reason of why this group is necessary for this project (applicable only to overseas joint research groups):

### · Necessity of the joint research group for achieving the goal of the project

### · Availability of specific facility, equipment, environment, etc.

### ・An alternative proposal for cooperation with the applicable group, in case a contract cannot not be concluded (applicable only to overseas joint research groups):

### ・The state of enforcement of the security trade control (applicable only when an overseas joint research group is involved):

(CREST – Form 5)

# Research Budget

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

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
|  | **1st Year**  2023.10～  2024.3 | **2nd Year**  2024.4～  2025.3 | **3rd Year**  2025.4～  2026.3 | **4th Year**  2026.4～  2027.3 | **5th Year**  2027.4～  2028.3 | **Final Year**  2028.4～  2029.3 | **Total**  (Thousand yen) |
| **Equipment** |  |  |  |  |  |  |  |
| **Materials/**  **Consumables** |  |  |  |  |  |  |  |
| **Travel** |  |  |  |  |  |  |  |
| **Personnel and Services**  **(Number of Researchers)** | ( ) | ( ) | ( ) | ( ) | ( ) | ( ) |  |
| **Other** |  |  |  |  |  |  |  |
| **Total**  (Thousand yen) |  |  |  |  |  |  |  |

## Note

(CREST – Form 5)

## 2．Research Budget plan by group

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
|  | **1st Year**  2023.10～  2024.3 | **2nd Year**  2024.4～  2025.3 | **3rd Year**  2025.4～  2026.3 | **4th Year**  2026.4～  2027.3 | **5th Year**  2027.4～  2028.3 | **Final Year**  2028.4～  2029.3 | **Total**  (Thousand yen) |
| **Research Director’s**  **Group**  **〇〇〇〇**  **（\*\*University）** |  |  |  |  |  |  |  |
| **Joint Research Group1**  **〇〇〇〇**  **（\*\*University）** |  |  |  |  |  |  |  |
| **Joint Research Group2**  **〇〇〇〇**  **（\*\*University）** |  |  |  |  |  |  |  |
| **Total**  (Thousand yen) |  |  |  |  |  |  |  |

## 

## List of major equipment costing 10 million yen or more (item, estimated cost）

(CREST – Form 6)

# List of Achievements/Ex-Post Evaluation Results

# (Research Director：(Example)Taro Gijyutsu)

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

## 1．Principal papers, books, and other publications related to this research proposal

## -within 20 achievements

## 2．Research papers/publications other than the above -within 20 achievements

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

*Enter in the table below a list of projects that the research director represented (restricted to those disclosed in 2015 and thereafter) and for which Ex-post evaluation is disclosed. Delete the table and enter “not applicable” if no relevant project exists.*

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

(CREST – Form 7)

# List of Achievements (Lead Joint Researcher(s))

**○ Joint Research Group 1**

**Lead Joint Researcher：Name (Affiliation)**

**【Author notation in English papers： 】**

## List of Achievements (Lead Joint Researcher 1) \*within 10 achievements

**○ Joint Research Group 2**

**Lead Joint Researcher：Name (Affiliation)**

**【Author notation in English papers：　　　　　　　　】**

## List of Achievements (Lead Joint Researcher 2) \*within 10 achievements

(CREST – Form 8)

# List of Patents (Research Director and Lead Joint Researcher(s))

## Major Patents

*List important patent applications of recent years that are related to this proposal. Do not exceed one page.*

*Please note; Patent number, Inventor’s name, Title of invention, Name of applicant, Date of application, etc.*

### 1．Research Director (Name (Affiliation))

### 2．Lead Joint Researcher

### 2.1 Joint Research Group 1　Lead Joint Researcher: Name (Affiliation)

### 2.2　Joint Research Group 2　Lead Joint Researcher: Name (Affiliation)

(CREST – Form 9)

# Information on Other Supports

## 

[Notes]

・When Research Director or Lead Joint Researchers are receiving, apply for, or plan to apply for competitive funding programs (including CREST / PRESTO / ACT-X, AMED-CREST, PRIME) or other research funds (all current research funds for individual research subjects, such as subsidies, grants, joint research funds, contract research funds, etc., including those from overseas), fill in the research project name, research period, role, amount of research expenses received by the individual, and effort. 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. In the case that it is difficult to enter due to unavoidable circumstances such as being unable to enter based on the contents of the confidentiality agreement that has already been concluded, it is possible to submit this research proposal without filling in any items other than effort. Please noted that this information will be provided to the reviewers at the time of proposal selection.

・If the information entered in the research proposal differs from reality, the research project may be rejected.

・We may ask for application and plan documents submitted to other systems when a proposal reaches the interview screening.

・Enter this proposed CREST 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.

## Research Director：Name (Affiliation)

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| **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 (planned)**  **(4) FY 2022**  **（Thousand yen/unit）** | **2023**  **FY**  **Effort**  **(％)** |
| - | CREST  (This Application) | Sub-mitted |  | 2023.10  － | Principal Investigator | (1)  (2)  (3) |  |
| (1) |  |  |  | － |  | (1)  (2)  (3)  (4) |  |
| (2) |  |  |  | － |  | (1)  (2)  (3)  (4) |  |
| (3) |  |  |  | － |  | (1)  (2)  (3)  (4) - |  |

## Lead Joint Researcher (1)：Name（Affiliation）

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| **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 (planned)**  **(4) FY 2022**  **（Thousand yen/unit）** | **2023**  **FY**  **Effort**  **(％)** |
| - | CREST  (This Application) | Sub-mitted |  | 2023.10  － | Co-Principal Investigator | (1)  (2)  (3) |  |
| (1) |  |  |  | － |  | (1)  (2)  (3)  (4) |  |
| (2) |  |  |  | － |  | (1)  (2)  (3)  (4) |  |
| (3) |  |  |  | － |  | (1)  (2)  (3)  (4) |  |

## Lead Joint Researcher (2)：Name（Affiliation）

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| **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 (planned)**  **(4) FY 2022**  **（Thousand yen/unit）** | **2023**  **FY**  **Effort**  **(％)** |
| - | CREST  (This Application) | Sub-mitted |  | 2023.10  － | Co-Principal Investigator | (1)  (2)  (3) |  |
| (1) |  |  |  | － |  | (1)  (2)  (3)  (4) |  |
| (2) |  |  |  | － |  | (1)  (2)  (3)  (4) |  |

# Protection of Human Rights and Compliance with Laws and Regulations

(CREST – Form 10)

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 15, 2007”/revision February 18 2014, 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.

(CREST – Form 11)

# Other Special Remarks

*In Form 11, 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). For items that have check boxes, please check the applicable ones.*

## ○Conflict of interest between the applicant and evaluators (Please be sure to

## refer to “Instructions for Preparing a Proposal”)

(1) Conflict of interest between the research applicant (research director) and evaluators (program supervisor/research supervisor, research area advisor)

**(a) Conflict of interest between the research applicant and the program supervisor/research supervisor (as an evaluator):**

**□YES　　 □NO**

**If YES,state the reason.**

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)①.

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

**□YES　　 □NO**

**If YES, write the name of research area advisors with conflict of interest and state the reason.**

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

Reason: The research applicant is conducting joint research with the research area advisor in \*\*

project. It comes under conditions (c) for conflict of interest stipulated for 5.1.2(2)①.

1. Conflict of interest between the lead joint researchers and evaluators (the program supervisor/ research supervisor/ research area advisors)

(a)Lead Joint Researcher (1): (Name), (Affiliation)

**Conflict of interest with the program supervisor/research supervisor:**

**□YES　　 □NO**

**If YES, state the reason.**

Reason: He/She is conducting joint research with the research supervisor in \*\* project (20xx-

20xx). It comes under conditions (f) for conflict of interest stipulated for 5.1.2(2).

**Conflict of interest with the research area advisor(s):**

**□YES　　 □NO**

**If YES, write the name of research area advisors with conflict of interest and state the reason.**

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

Reason: He/She is conducting joint research with the research area advisor in \*\* project.

It comes under conditions (c) for conflict of interest stipulated for 5.1.2(2).

(b)Lead Joint Researcher (2): (Name), (Affiliation)

**Conflict of interest with the program supervisor/research supervisor:**

**□YES　　 □NO**

**If YES, state the reason.**

Reason: He/She is conducting joint research with the research supervisor in \*\* project (20xx-

20xx). It comes under conditions (f) for conflict of interest stipulated for 5.1.2(2).

**Conflict of interest with the research area advisor(s):**

**□YES　　 □NO**

**If YES, write the name of research area advisors with conflict of interest and state the reason.**

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

Reason: He/She is conducting joint research with the research area advisor in \*\* project.

It comes under conditions (c) for conflict of interest stipulated for 5.1.2(2).

## ○Joint research group that is related to the research director (organizations etc.

## established based on R&D achievements by the research director etc.) (Please be sure to refer to “Instructions for Preparing a Proposal”)

**Organization that is related to the research director:**

**□YES　　 □NO**

**If YES, write the name of the organization and the lead joint researchers as well as state the reason.**

　　The name of the organization (the lead joint researcher’s name participating): XX Corporation (Taro Kagaku)

Reason: This organization was established based on R&D achievement by the research

director, which conforms to Item (a) among the requirements defined in 5.1.2 (2) ②.

## ○Participation by a research group of a company financed by JST (Please be sure to refer to “Instructions for Preparing a Proposal”)

**Participation by a company financed by JST:**

**□YES　　□NO**

**If YES, write the name of the organization and the research director/ the lead joint researchers.**

　　The name of the organization (the research director): XX Corporation (Taro Kagaku)

The name of the organization (a lead joint researcher): XX Corporation (Taro Kagaku)

## ○(Only for those relevant) The contact of the manager at the department or the division in charge of the research contracts at the overseas research institute

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

## ○(Only for those relevant) Special notes for efforts by a research director

If the research director (Managers such as the Dean of the Graduate School) requires work time(efforts) for a special task, please indicate so.

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

This research area is a 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

**○Order of the research areas in which you wish to be adopted (In the case of duplicate applications in JST-CREST and AMED-CREST research areas)**

If you are selected as a candidate for adoption by both AMED and JST, please check the box below for the research area in which you wish to be adopted (your first choice).

□JST\_CREST

　□AMED-CREST

## ○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

# Proposal Preparation Checklist

(CREST – Attachment)

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

|  |  |  |  |
| --- | --- | --- | --- |
| Check | | Reference Material | Check |
| Have you completed e-Rad researcher registration? (Lead Joint researchers as well) | | Chapter 10 | □ |
| Have you completed the educational program on research integrity? | | Section 8.31 | □ |
| Have you checked if you do not fall under the Limitationon the Multiple Application ?  Note : The rules on Limitation on the Multiple Application with other programs has changed from FY2022. | | Chapter 9 | □ |
| 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　 and 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　 and the Research Supervisor are presently working in close cooperation on the same joint research project. Or, have done so within the past three 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 □ |

**\***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.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. Also, when converting to PDF format, please use the PDF conversion function of e-Rad.

|  |  |  |  |
| --- | --- | --- | --- |
|  | 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 to 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?  Is a graphical abstract drawn? | □ |
| Form 2-2 | Major Achievements of the Research Director | The form 2-2 is within one page when converted to PDF | □ |
| Form　3-1 | Project Description | The form 3-1 is within six pages when converted to PDF. | □ |
| Form 3-2 | Project Organization and Research Schedule | The form 3-2 is within two pages when converted to PDF. | □ |
| Form　4-1 | Research Project Organization 1 (within two pages) | All necessary information is given. The form 4-1 is within two pages when converted to PDF. | □ |
| Form　4-2 | Research Project Organization 2 (within two pages for each group) | All necessary information is given.  The form 4-2 is within two pages for each joint research group when converted to PDF. | □ |
| Form　5 | Research Budget | Total Sum is matched with the research budget given in Form 1. | □ |
| Form　6 | List of Achievements / Ex-Post Evaluation Results (Research Director) | The number of principal achievements listed is no more than 20. The number of the other achievements listed is also no more than 20. | □ |
| Form　7 | List of Achievements (Lead Joint Researcher(s)) | The number of achievements listed is no more than 10 for each lead joint researcher. | □ |
| Form　8 | List of Patents (Research Director & Lead Joint Researcher) | The Form 8 is described in around one page. | □ |
| Form 9 | Information on Other Supports | All necessary information is given (Especially the efforts). | □ |
| Form 10 | Protection of Human Rights and Compliance with Laws and Regulations | The column is already checked. | □ |
| Form 11 | Other Special Remarks | The form 11 is within three pages when converted to PDF.  The consent to share with AMED is already checked. | □ |