# FY 2019 Application CREST Research Proposal

(CREST - Form 1)

|  |  |
| --- | --- |
| Research Area | Select one research area from the following:  ・ Symbiotic Interaction: Creation and development of core technologies interfacing human and information environments  ・ Computational Foundation: Technology for Computing Revolution for Society 5.0 |
| Title of proposed research project | *When the theme is in English, describe the theme in Japanese (about 20 characters) along with the English theme* |

Japanese Side

|  |  |
| --- | --- |
| Name of Research Director |  |
| Affiliated Institution, Section, Title | *Enter correctly.* |
| Academic Background | *List the applicant’s undergraduate and graduate education as indicated below:*  *Year: Undergraduate Institution, Major Degree, Supervisor*  *Year: Graduate Institution, Major Degree, Supervisor* |
| Professional Appointments and Awards  (Research Director) | *<Professional Appointments>*  *List, in chronological order, all academic/professional appointments of the applicant (Research Director) finishing with the current appointment. Include the name of a project leader or a supervisor who had/has been at a mentoring position for the given appointment.*  *<Awards>*  *List, in chronological order, principal awards that the applicant (Research Director) received. Describe shortly what were the awards received for.* |
| Information of Research Director | URL:  *Please indicate URL if there are any websites where the information of the Research Director is available (such as a website of his/her laboratory or researchmap webpage, etc.).* |
| Research Period | [mm. yy] – [mm. yy] |
| Total Research Budget | Total Budget: 　　　thousand yen  *（Do not include decimal point. Pay attention to the unit. (check if the expenses exceed the upper limit set for research expenses stipulated in the* “*Research Supervisor’s Policy on Call for Application, Selection, and Management”)* |

**General note for application**

**-Guideline and Q and A**

Please refer to guideline and Q and A from following websites.

**Guideline: https://www.jst.go.jp/kisoken/boshuu/h30/teian/en/koubo/h30youkou\_en.pdf**

**Q and A: http://www.jst.go.jp/kisoken/boshuu/teian/en/top/faq.html**

**Notes for the preparation of Form1**

**- Proposed Research Area (for Japanese only)**

Only one application may be submitted to [Symbiotic Interaction] or [Computational Foundation]..

**- Researcher ID No. (for Japanese only)**

Proposals must be submitted via the e-Rad system. Those who do not have Kakenhi ID or e-Rad login ID should contact their affiliated Research Institution personnel or the e-Rad Helpdesk immediately to obtain the e-Rad ID. See Chapter 10 in guideline.

**- Academic Background & Professional Appointments (for Japanese only)**

Make sure to list the names of the supervisor / the head of the affiliated research laboratory.

**- Research period**

The ending time period of research projects can be set to an arbitrary date prior to March 31, 2025 (default).

**-Efforts in this fiscal year (for Japanese only)**

Describe the relative ratio (%) of time necessary to undertake the research, assuming the total work time (including research-, educational-, and medical-related activities) for the year is 100%, as defined by the General Science and Technology Innovation Conference. Do not include efforts, such as grants, that are being applied or planned. Include only efforts, such as grants that are being received or to be received in case the proposal is adopted for CREST. The sum of the ratios of efforts involved in CREST and the grant presently received must not exceed 100%.

French Side

|  |  |
| --- | --- |
| Name of Research Director |  |
| Affiliated Institution, Section, Title |  |
| Academic Background |  |
| Professional Appointments and Awards  (Research Director) |  |
| Information of Research Director | URL: |
| Research Period | [mm. yy] – [mm. yy] |
| Total Research Budget | Total Budget: 　　　keuros |

(CREST - Form 2-1)

# Research Proposal Overview

## Outline of Research Project

*・In Form 2-1, Provide an overall description of the research proposal in less than two 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). 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).*

*・Form 2-1 chiefly covers material that is critical for documentation-based selection. It will be evaluated from the perspectives below:*

1. *Is it aligned with the goals of the solicited Research Area? (Can the proposal be expected to contribute to fulfilling the purpose of the Research Area? Mainly, does the proposal correspond to items a. and b. in “(1) Selection Standards (Preliminary Evaluation Standards)” in Section 5.1.3, “Selection Perspective”)*
2. *Is it aligned with the goals of the CREST Program (Mainly, does the proposal correspond to the goal noted in c. in “(1) Selection Standards (Preliminary Evaluation Standards)” in Section 5.1.3, “Selection Perspective” for “Basic research that is unique, highly appreciated internationally, and expected to produce outstanding results that contribute greatly to science and technology innovation?”)?*

*Therefore, in this form, provide a brief description that focuses on the details corresponding to Item 1, “Background and Objectives,” of CREST Form 3-1 (Project Description), and provide the minimum explanation (corresponding to Items 2 to 7 of Form 3-1) required to understand your description above.*

*(The scientific/technical evaluation of the validity and feasibility of the Project Description will be considered mainly with CREST Form 3-1)*

*・Insert figures and tables (in color) appropriately to be undertaken clearly.*

(CREST – Form 2-2J)

# Major Achievements of the Research Director (Japanese Side)

## List of principal research papers / invited lectures

*・In Form 2-2, on no more than one 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）**

*・ From CREST Form 6, Item 1, select a maximum of 10 principal research papers by the research project applicant (the Research Director) and list them here (Use the same description and format as from CREST Form 6, Item 1)*

*・Make entries retrospectively from the present to the past years of publication.*

*・Sequentially number each item with a number at the beginning of each title.*

*・The following items should be entered for a paper. The items may be in a freely chosen sequence.*

*[Items to be entered]*

*Authors (enter all authors and underline the applicant), title of a paper, journal in which the paper is published, volume, page, and year of publication*

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

*・List a maximum of 10 principal invited lectures by the research project applicant (the Research Director).*

*・Sequentially number each item with a number at the beginning of each title.*

*・Make entries retrospectively from the present to the past years of publication.*

(CREST – Form 2-2F)

# Major Achievements of the Research Director (French Side)

## List of principal research papers / invited lectures

*・In Form 2-2, on no more than one 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）**

*・From CREST Form 6, Item 1, select a maximum of 10 principal research papers by the research project applicant (the Research Director) and list them here (Use the same description and format as from CREST Form 6, Item 1)*

*・Make entries retrospectively from the present to the past years of publication.*

*・Sequentially number each item with a number at the beginning of each title.*

*・The following items should be entered for a paper. The items may be in a freely chosen sequence.*

*[Items to be entered]*

*Authors (enter all authors and underline the applicant), title of a paper, journal in which the paper is published, volume, page, and year of publication*

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

*・List a maximum of 10 principal invited lectures by the research project applicant (the Research Director).*

*・Sequentially number each item with a number at the beginning of each title.*

*・Make entries retrospectively from the present to the past years of publication.*

(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

*Describe scientific and technological needs, social demand and requests from economic and industrial interests, including the trends of the related fields to illustrate the importance and necessity of the proposed research project. According the needs, describe the objectives of the proposed research project.*

*Moreover, from a viewpoint of “Science and Technology Innovation\*”, describe the impact of the proposed research on science and technology. Future social values resulting from the impact on science and technology are described in the “6. Future Prospect of Research” in detail.*

*\*“Science and technology innovation” is defined as the “creation of intellectual and cultural values based on new knowledge resulting from scientific discoveries and inventions and reform by connecting the development of the knowledge to the creation of economic, social, and cultural values” ―Excerpt from page 7 of the Fourth Basic Plan of Science and Technology (Cabinet Decision, August 8, 2011)*

## 2．Objectives of proposed research project

**(1) Objective to be achieved in the middle of the research period (in around 60 words)**

*Describe briefly (around 50words) the research objective in the middle of the proposed research period (for 5.5 years of entire research period, at the time of 3 years later from the start of the project).*

**(2) Objective to be achieved at the end of the research period (in around 60 words)**

*Describe briefly (around 50 words) the research objective at the end of the proposed research project.*

## 3．Research Plans and Approach

*-Describe concrete plan of pursuing the proposed research including the approaches to achieve the target and objectives specified in the previous item of this form, for each research group (research director’s group, and each joint research group)*

*-Show the outline of the time schedule to demonstrate your vision and plan specifically, how to attain "1. Background and Objective", while indicating milestones of research toward " 1. Background and Objective." The schedule of the project should be shown in the form 3-2 as well. Also, show clearly the relationship of the project plan with the targets to be achieved after 3 years from the start of proposed research. This is one of the evaluation basis.*

*-Specify the strategy to acquire and manage intellectual property rights (such as application, authorization, licensing). Describe relevant intellectual property rights that the applicants own.*

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

*-Taking into account the state and trends of research in relevant fields, present originality and novelty of the proposed research project. Describe the advantages of the proposed research over others, specifying the competitive researches overseas.*

## 5．Research infrastructure and preparation

*Describe research background and achievements of the Research Director and other participants that are relevant to implement the proposed research project including the following information;*

*・Relevant projects conducted in the past and achievements of the research director and those of lead joint researchers and other research participants (if necessary).*

*・Other preliminary knowledge, data, etc. (if any)*

*・Measures taken to the item “d” in “5.1.3 Selection Perspective” from Application Guideline*

*<Excerpt from the item ”d” in “5.1.3 Selection Perspective”>*

*・The research project applicant has produced research results for accomplishing the research objectives.*

*・Promising preliminary results have been obtained for pursuing the research project.*

*・The research proposals is clearly specifying (i) the background to the research project (its necessity and importance), (ii) the research record of the research project applicant; and (iii) the research initiative and plan., separately.*

*・An optimal research organization is proposed.*

*・The research project applicant will exercise strong leadership and bear responsibility for the entire research team, and, if there will be Lead Joint Researchers, they are essential for to the pursuit of pursuing the research project, and a collaboration framework sufficient for enabling significant contributions toward the achievement of research objectives is provided*

## 6．Future Prospect of Research

*-Describe expected creation of science and technology innovation, creation of new industry, acquirement and enforcement of intellectual properties, contribution to society, etc., which are likely realized in the future, by achievement of ”1. Background and Objective” in the Project Description. The goal of the research area to be applied for should be also considered.*

## 7．Specific for collaboration

**The research roadmap for development and social implementation toward society 5.0**

(CREST –Form 3-1 Annex)

**(for Applicants of Computational Foundation)**

*-Describe how the proposed research content or technology will be developed and implemented in society-*

*Note: Please limit your responses to a single page in total. The explanatory text should be deleted by the research proposal applicant.*

(CREST – Form 3-2)

# Project Organization and Research Schedule

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

## 1．Project Organization

Japanese Side

|  |  |  |  |
| --- | --- | --- | --- |
| Group Name | Name of  Research Director/  Lead Joint Researcher | Affiliation and Title | Research Item |
| *＊＊ Group*  *（＊＊ should be filled with the family name of Research Director）* | *Name of the Research Director* | *Affiliation and Title of the Research Director* | *Title of the proposed project as specified in the form 1.* |
| *＋＋ Group*  *（++ should be filled with the family name of Lead Joint Researcher(1)）* | *Name of the Lead Joint Researcher (1)* | *Affiliation and Title of the Lead Joint Researcher (1)* | *Name of the research Item of this group in charge \*This is also specified in form 4-2.* |
| *＋＋＋ Group*  *（+++ should be filled with the family name of Lead Joint Researcher(2)）* | *Name of the Lead Joint Researcher (2)* | *Affiliation and Title of the Lead Joint Researcher (2)* | *Name of the research Item of this group in charge \*This is also specified in form 4-2.* |

French Side

|  |  |  |  |
| --- | --- | --- | --- |
| Group Name | Name of  Research Director/  Lead Joint Researcher | Affiliation and Title | Research Item |
| *＊＊ Group*  *（＊＊ should be filled with the family name of Research Director）* | *Name of the Research Director* | *Affiliation and Title of the Research Director* | *Title of the proposed project as specified in the form 1.* |
| *＋＋ Group*  *（++ should be filled with the family name of Lead Joint Researcher(1)）* | *Name of the Lead Joint Researcher (1)* | *Affiliation and Title of the Lead Joint Researcher (1)* | *Name of the research Item of this group in charge \*This is also specified in form 4-2.* |
| *＋＋＋ Group*  *（+++ should be filled with the family name of Lead Joint Researcher(2)）* | *Name of the Lead Joint Researcher (2)* | *Affiliation and Title of the Lead Joint Researcher (2)* | *Name of the research Item of this group in charge \*This is also specified in form 4-2.* |

*Notes: Indication of Lead Joint Researcher (1), (2), (3)… corresponds with that of the forms hereinafter (from form 3-2 to form 11).*

## 2．Research Schedule

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

*-The name of “Research Director’s Group”, “Joint Research Group” is changed by those specified in the previous item respectively.*

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

*-Length, setting, thickness of an arrow can be changed.*

|  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Research Subjects | 2019  Fiscal year  (6 months) | | 2020  Fiscal Year | | 2021  Fiscal  Year | | 2022  Fiscal  Year | | 2023  Fiscal  Year | | 2024  Fiscal Year  (12months) | |
| 1. **XX related Gene Expression Analysis** |  |  |  |  |  |  |  |  |  |  |  |  |
| ・Identification of XX related genes  (Research Director’s Group) |  |  |  |  |  |  |  |  |  |  |  |  |
| ・Gene Expression Analysis  (Joint Research Group 1,2) |  |  |  |  |  |  |  |  |  |  |  |  |
| **2．Development and verification of model animal** |  |  |  |  |  |  |  |  |  |  |  |  |
| ・Development of model animal  (Research Director’s Group) |  |  |  |  |  |  |  |  |  |  |  |  |
| ・Verification of model animal  (Joint Research Group 2) |  |  |  |  |  |  |  |  |  |  |  |  |
| **3. Imaging Analysis** |  |  |  |  |  |  |  |  |  |  |  |  |
| ・Data Collection  (Research Director’s Group  Joint Research Group 1) |  |  |  |  |  |  |  |  |  |  |  |  |
| ・Development of software  (Joint Research Group 2) |  |  |  |  |  |  |  |  |  |  |  |  |
| ・Data Analysis  (Research Director’s Group) |  |  |  |  |  |  |  |  |  |  |  |  |
| 1. **Development of XX Diagnostic Method** |  |  |  |  |  |  |  |  |  |  |  |  |
| ・Elucidation of XX Correlation  (Research Director’s Group) |  |  |  |  |  |  |  |  |  |  |  |  |
| ・Development of diagnostic method and verification  (Joint Research Group 1) |  |  |  |  |  |  |  |  |  |  |  |  |

(CREST – Form 4-1J)

# Research Project Organization 1 (Japanese Side)

(Research Members at Research Director’s Group)

*For Form4-1J, describe in less than two 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** | **Title** | **2019FY**  **effort（%）** |
| ○○　○○ | Department of \*\*\*, Graduate School of \*\*\*, \*\*\* University | Professor | 40 |
| **Research**  **Participants** | **Affiliation**  (Omit if the same as above) | **Title** | |
| ○○　○○ |  | Professor | |
| ○○　○○ |  | Associate Professor | |
| ○○　○○ |  | Lecturer | |
| ××　×× | \*\*\* Laboratory, \*\*\* Co., Ltd. | Principal Researcher | |

*1)If the proposed research project is selected, but the research organization to pursue the project will be different from the current affiliated organization of research director, provide the name of the institution at which the research will be conducted. Also, provide us with information on the details in the form 11.*

*2)As for ”2019 FY Effort”,* *Enter “ratio of time (%) necessary for conducting research relative to 100% for the whole work hours during the CREST research period (2019.10-2020.3) in fiscal year 2019 if adopted for CREST. The description should be the same as that in e-Rad.*

*3)Provide sufficient consideration to the roles played by the members of the research group.*

*4)Add Additional lines for research participants as necessary. If the research staff has not been finalized at the time of the proposal, a note like “X persons for research staff” will suffice.*

*5)If the same research subjects need to be pursued at multiple research organizations, it is possible to add the members from the other organizations as research participants. This is only approved on the condition that the affiliated organization of research director can manage the research budget processed by the research participant from the other organization. If not, the researcher is to be listed in another joint research group (See also the Q&A.).*

## ○ Research Items and Overview

### ・Title of Research Project：

### *Enter the name of the proposed project in form 1 and form 3-2 “Project Organization”*

### ・Research Subjects in Charge

*Enter the research subjects specified in the form 3-2 “Research Schedule”, of which the research director’s group is in charge.*

### ・Overview

*Describe briefly an overview of the research subjects that the Research Director’s Group will be in charge of.*

### ・Role in the entire research project

*Describe the role which the Research Director’s group plays in realizing the proposed research project.*

(CREST – Form 4-2J)

# Research Project Organization 2 (Japanese Side)

(Research Members at the Joint Research Group)

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

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

*-The joint research groups from various institutions such as industries, governments, and academia can be included.*

*-Although there is no maximum limit of the number of the joint research groups, compose a necessary and sufficient number of groups for execution of Research Director’s research idea. If Research Director does not play a leading role, or if assigned tasks of the joint research groups are not clear, the framework of team is inappropriate.*

*- Add or delete rows to/from the table as necessary for the number of groups.*

*- It is not mandatory to have joint research groups to the research team.*

## Joint Research Group (1)

|  |  |  |  |
| --- | --- | --- | --- |
| **Lead Joint Researcher** | **Joint Research Institution** | **Title** | **2019FY**  **Effort（％）** |
| ○○　○○ | Department of \*\*, \*\*\*University | Professor | 10 |
| **Research Participants** | **Affiliation**  (Omit if the same as above) | **Title** | |
| ○○　○○ |  | Principal Researcher | |
| ○○　○○ |  | Researcher | |
| 2 researchers  to be hired |  | Research fellow | |
| ××　×× | \*\*\* Laboratory, \*\*\* Co., Ltd. | Principal Researcher | |

*1)If the proposed research project is selected, but the research organization to pursue the project will be different from the current affiliated institution of the lead joint researcher, provide the name of the organization at which the research will be conducted. Also, provide us with information on the details in the form 11.*

*2) As for ”2019 FY Effort”,* *Enter “ratio of time (%) necessary for conducting research relative to 100% for the whole work hours during the CREST research period (2019.10-2020.3) in fiscal year 2019 if adopted for CREST. The description should be the same as that in e-Rad.*

*3) Provide sufficient consideration to the roles played by the members of the research group.*

*4) Add Additional lines for research participants as necessary. If the research staff has not been finalized at the time of the proposal, a note like “X persons for research staff” will suffice.*

*5)If the same research subjects need to be pursued at multiple research organizations, it is possible to add　the members from the other organizations as research participants. This is only approved on the condition that the affiliated organization of the lead joint researcher can manage the research budget processed by the research participant from the other organization. If not, the researcher is to be listed in another joint research group (See also the Q&A.).*

## ○ Research Items and Overview

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

*Enter the name of the research item of this group specified in form3-2 “Research Organization”*

### ・Research Subjects in Charge

*Enter the research subjects specified in the form 3-2 “Research Schedule”, of which this joint research group is in charge*

### ・Overview

*Describe briefly an overview of the research subjects that this Joint Research Group will be in charge of.*

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

*Describe the role which this joint research group plays in realizing the proposed research project. Also, specify the measures taken to the item “d” in “5.1.3 Selection Perspective” from Application Guideline*

*<Excerpt from the item ”d” in “5.1.3 Selection Perspective”>*

*・The research project applicant has produced research results for accomplishing the research objectives.*

*・An optimal research organization is proposed. The research project applicant will exercise strong leadership and bear responsibility for the entire research team, and, if there will be Lead Joint Researchers, they are essential for to the pursuit of pursuing the research project, and a collaboration framework sufficient for enabling significant contributions toward the achievement of research objectives is provided.*

## Joint Research Group (2)

|  |  |  |  |
| --- | --- | --- | --- |
| **Lead Joint Researcher** | **Joint Research Institution** | **Title** | **2019FY**  **Effort（％）** |
| ○○　○○ | Department of \*\*, \*\*\*University | Professor | 10 |
| **Research Participants** | **Affiliation**  (Omit if the same as above) | **Title** | |
| ○○　○○ |  | Principal Researcher | |
| ○○　○○ |  | Researcher | |
| 2 researchers  to be hired |  | Research fellow | |
| ××　×× | \*\*\* Laboratory, \*\*\* Co., Ltd. | Principal Researcher | |

## ○ Research Items and Overview

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

*Enter the name of the research item of this group specified in form3-2 “Research Organization”*

### ・Research Subjects in Charge

*Enter the research subjects specified in the form 3-2 “Research Schedule”, of which this joint research group is in charge*

### ・Overview

*Describe briefly an overview of the research subjects that this Joint Research Group will be in charge of.*

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

*Describe the role which this joint research group plays in realizing the proposed research project. Also, specify the measures taken to the item “d” in “5.1.3 Selection Perspective”from Application Guideline*

*<Excerpt from the item ”d” in “5.1.3 Selection Perspective”>*

*・The research project applicant has produced research results for accomplishing the research objectives.*

*・An optimal research organization is proposed. The research project applicant will exercise strong leadership and bear responsibility for the entire research team, and, if there will be Lead Joint Researchers, they are essential for to the pursuit of pursuing the research project, and a collaboration framework sufficient for enabling significant contributions toward the achievement of research objectives is provided.*

(CREST – Form 4-1F)

# Research Project Organization 1 (French Side)

　 (Research Members at Research Director’s Group)

*For Form4-1F, describe in less than two 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** | **Title** | **2019FY**  **effort（%）** |
|  |  |  |  |
| **Research**  **Participants** | **Affiliation**  (Omit if the same as above) | **Title** | |
|  |  |  | |
|  |  |  | |
|  |  |  | |
|  |  |  | |

## ○ Research Items and Overview

### ・Title of Research Project：

### ・Research Subjects in Charge

### ・Overview

### ・Role in the entire research project

(CREST – Form 4-2F)

# Research Project Organization 2 (French Side)

(Research Members at the Joint Research Group)

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

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

## Joint Research Group (1)

|  |  |  |  |
| --- | --- | --- | --- |
| **Lead Joint Researcher** | **Joint Research Institution** | **Title** | **2019FY**  **Effort（％）** |
|  |  |  |  |
| **Research Participants** | **Affiliation**  (Omit if the same as above) | **Title** | |
|  |  |  | |
|  |  |  | |
|  |  |  | |
|  |  |  | |

## ○ Research Items and Overview

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

### ・Research Subjects in Charge

### ・Overview

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

## Joint Research Group (2)

|  |  |  |  |
| --- | --- | --- | --- |
| **Lead Joint Researcher** | **Joint Research Institution** | **Title** | **2019FY**  **Effort（％）** |
|  |  |  |  |
| **Research Participants** | **Affiliation**  (Omit if the same as above) | **Title** | |
|  |  |  | |
|  |  |  | |
|  |  |  | |
|  |  |  | |

## ○ Research Items and Overview

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

### ・Research Subjects in Charge

### ・Overview

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

(CREST – Form 5J)

# Research Budget (Japanese side)

*- Prepare the budget plan and sort it by items and by groups for each year.*

*- A more detailed budget plan will be requested when the proposal proceeds to the interview.*

*- 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.*

*- Organize an optimal research team with necessary and sufficient number of groups. Appropriateness of the budget allocations to the joint research groups, and cost performance will be an important consideration as a part of the selection process.*

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

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
|  | **1st Year**  2019.10～  2020.3 | **2nd Year**  2020.4～  2021.3 | **3rd Year**  2021.4～  2022.3 | **4th Year**  2022.4～  2023.3 | **5th Year**  2023.4～  2024.3 | **Final Year**  2024.4～  2025.3 | **Total**  (Thousand yen) |
| **Equipment** | 20,000 | 40,000 | 0 | 0 | 0 | 0 | 60,000 |
| **Materials/**  **Consumables** | 20,000 | 40,000 | 30,000 | 30,000 | 20,000 | 20,000 | 160,000 |
| **Travel** | 1,000 | 2,000 | 2,000 | 2,000 | 2,000 | 1,000 | 10,000 |
| **Personnel and Services**  **(Number of Researchers)** | 6,000  (2) | 12,000  (2) | 12,000  (2) | 12,000  (2) | 12,000  (2) | 6,000  (1) | 60,000 |
| **Other** | 10,000 | 0 | 0 | 0 | 0 | 0 | 10,000 |
| **Total**  (Thousand yen) | 57,000 | 94,000 | 44,000 | 44,000 | 34,000 | 27,000 | 300,000 |

*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 Research Director or participants.*

*Personnel and Services: Personnel expenses and compensation for postdoctoral researchers, technicians, research assistants (RA\*), etc.*

*\*As for RA, please refer to “5.2.4 Research Costs” and Q&A.*

*(Numbers of researchers):*

*The number of researchers, technicians, and research assistants who are newly employed for the proposed research project*

*Other: Costs other than the above (e.g., printing, equipment lease, freight costs, etc.)*

*Please refer to “Q & A” regarding transferring sums to other budget item categories.*

## Note

(CREST – Form 5J)

## 2．Research Budget plan by group on Japanese side

*Propose a most suitable research team that is necessary and adequate for bringing the research idea of the research representative into reality. When a joint research group is organized, the group must be necessary and essential for bringing a research idea into reality, and be able to make great contributions to achieving the research objectives.*

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
|  | **1st Year**  2019.10～  2020.3 | **2nd Year**  2020.4～  2021.3 | **3rd Year**  2021.4～  2022.3 | **4th Year**  2022.4～  2023.3 | **5th Year**  2023.4～  2024.3 | **Final Year**  2024.4～  2025.3 | **Total**  (Thousand yen) |
| **Research Director’s**  **Group**  **〇〇〇〇**  **（\*\*University）** | 20,000 | 40,000 | 25,000 | 25,000 | 20,000 | 15,000 | 145,000 |
| **Joint Research Group1**  **〇〇〇〇**  **（\*\*University）** | 20,000 | 30,000 | 10,000 | 10,000 | 5,000 | 5,000 | 80,000 |
| **Joint Research Group2**  **〇〇〇〇**  **（\*\*University）** | 17,000 | 24,000 | 9,000 | 9,000 | 9,000 | 7,000 | 75,000 |
| **Total**  (Thousand yen) | 57,000 | 94,000 | 44,000 | 44,000 | 34,000 | 27,000 | 300,000 |

## 

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

*Example*

\*\*\* Group

XXXXXX 15,000 Thousand Yen

XXXXXX 5,000 Thousand Yen

XXXXXX 10,000 Thousand Yen

\*\*\* Group

XXXXXX 7,000 Thousand Yen

XXXXXX 10,000 Thousand Yen

(CREST – Form 5F)

Research Budget (French side)

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

|  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
|  | **1st Year**  ( - ) | **2nd Year**  ( - ) | **3rd Year**  ( - ) | **4th Year**  ( - ) | **5th Year**  ( - ) | **Final Year**  ( - ) | **Requested funding**  (Thousand Euro) | **Full Cost**  (Thousand Euro) |
| **Personnel costs** |  |  |  |  |  |  |  |  |
| **Materials/**  **Consumables** |  |  |  |  |  |  |  |  |
| **Building and land costs** |  |  |  |  |  |  |  |  |
| **Provision of services** |  |  |  |  |  |  |  |  |
| **General costs** |  |  |  |  |  |  |  |  |
| **Total**  (Thousand Euro) |  |  |  |  |  |  |  |  |

## (Duplicate for each French partner)

## Note

(CREST – Form 6J)

# List of Achievements/Ex-Post Evaluation Results (Japanese side)

# (Research Director：(Example)Taro Gijyutsu)

**【author notation in English papers by the research director：（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 correct entry of the research director’s full name [author notation in English papers by the research director]. When entering author(s) in 1. list of papers mentioned later, abbreviation to, for example, T. Gijyutsu is acceptable.*

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

## -within 20 achievements

*・List a maximum of 20 principal papers, books, and other publications related to this research proposal, starting from the most recent to the past in reverse sequence of year of publication.*

*・Assign a serial number in front of a line. The number may be cited in the Project Description (form 3-1).*

*・Items to be included for papers are as follows (books follow the same guidelines). The items should be placed freely in any order.*

*[items to be included]*

*Author (Enter all authors), title of published paper, journal, volume, page, publication year*

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

*・**In addition to 1 above, list a maximum of 20 principal papers, books, and other publications of the Research Director, starting from the most recent to the past in reverse sequence of year of publication.*

*・Assign a serial number in front of each line. However, the numbers should be sequential starting with “1. Principal papers, books, and other publications related to this research proposal” (for example, when 10 papers are cited for 1. “Principal papers, books, and other publications related to this research proposal” papers cited in this item 2. should begin with “11” followed by serial numbers.*

*・Items to be included for papers are as follows (books follow the same guidelines). The items should be placed freely in any order.*

*[items to be included]*

*Author (Enter all authors), title of published paper, journal, volume, page, publication year*

## 3．Retrospective evaluation of research themes that the research applicant represented in other systems of competitive research funds

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

|  |  |  |  |
| --- | --- | --- | --- |
| Number | Research  Program | Research Project  (Fiscal Year Implemented) | URL of website with retrospective evaluation result  \*if the website contains many themes that are not those of yourself, write page numbers of your own themes to facilitate checking by evaluators. |
| **1** |  |  |  |
| **2** |  |  |  |

(CREST – Form 6F)

# List of Achievements/Ex-Post Evaluation Results (French Side)

# (Research Director：(Example)Taro Gijyutsu)

**【author notation in English papers by the research director：（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 correct entry of the research director’s full name [author notation in English papers by the research director]. When entering author(s) in 1. list of papers mentioned later, abbreviation to, for example, T. Gijyutsu is acceptable.*

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

## -within 20 achievements

*・List a maximum of 20 principal papers, books, and other publications related to this research proposal, starting from the most recent to the past in reverse sequence of year of publication.*

*・Assign a serial number in front of a line. The number may be cited in the Project Description (form 3-1).*

*・Items to be included for papers are as follows (books follow the same guidelines). The items should be placed freely in any order.*

*[items to be included]*

*Author (Enter all authors), title of published paper, journal, volume, page, publication year*

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

*・In addition to 1 above, list a maximum of 20 principal papers, books, and other publications of the Research Director, starting from the most recent to the past in reverse sequence of year of publication.*

*・Assign a serial number in front of each line. However, the numbers should be sequential starting with “1. Principal papers, books, and other publications related to this research proposal” (for example, when 10 papers are cited for 1. “Principal papers, books, and other publications related to this research proposal” papers cited in this item 2. should begin with “11” followed by serial numbers.*

*・Items to be included for papers are as follows (books follow the same guidelines). The items should be placed freely in any order.*

*[items to be included]*

*Author (Enter all authors), title of published paper, journal, volume, page, publication year*

## 3．Retrospective evaluation of research themes that the research applicant represented in other systems of competitive research funds

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

|  |  |  |  |
| --- | --- | --- | --- |
| Number | Research  Program | Research Project  (Fiscal Year Implemented) | URL of website with retrospective evaluation result  \*if the website contains many themes that are not those of yourself, write page numbers of your own themes to facilitate checking by evaluators. |
| **1** |  |  |  |
| **2** |  |  |  |

(CREST – Form 7J)

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

**○ Joint Research Group 1**

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

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

*In performing selection, evaluators (research supervisor, research area advisor) sometimes search through publication databases to check achievements in detail. This requires the correct entry of the lead joint researcher’s full name [author notation in English papers]. When entering author(s) in 1. list of papers mentioned later, abbreviation to, for example, T. Kagaku is acceptable.*

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

*・For each lead joint researcher, list a maximum of 10 principal papers, books, and other publications related to this research proposal, starting from the most recent to the past in reverse sequence of year of publication.*

*・Assign a serial number in front of a line. The number may be cited in the Project Description (form 3-1).*

*・Items to be included for papers are as follows (books follow the same guidelines). The items should be placed freely in any order.*

*[items to be included]*

*Author (Enter all authors), title of published paper, journal, volume, page, publication year*

**○ Joint Research Group 2**

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

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

*In performing selection, evaluators (research supervisor, research area advisor) sometimes search through publication databases to check achievements in detail. This requires the correct entry of the lead joint researcher’s full name [author notation in English papers]. When entering author(s) in 1. list of papers mentioned later, abbreviation to, for example, T. Kagaku is acceptable.*

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

*・For each lead joint researcher, list a maximum of 10 principal papers, books, and other publications related to this research proposal, starting from the most recent to the past in reverse sequence of year of publication.*

*・Assign a serial number in front of a line. The number may be cited in the Project Description (form 3-1).*

*・Items to be included for papers are as follows (books follow the same guidelines). The items should be placed freely in any order.*

*[items to be included]*

*Author (Enter all authors), title of published paper, journal, volume, page, publication year*

(CREST – Form 7F)

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

**○ 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 8J)

# Patent list (Research Director and Lead Joint Researcher(s)) (Japanese Side)

## Major Patents

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

*【Items to be entered】*

*Application number, inventor, title of invention, applicant, and date of application*

### 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 8F)

# Patent list (Research Director and Lead Joint Researcher(s)) (French Side)

## Major Patents

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

*【Items to be entered】*

*Application number, inventor, title of invention, applicant, and date of application*

### 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 9J)

# Information on Other Supports (Japanese Side)

*Enter the research theme, research period, role, amount of research funds received, and effort for each research theme concerning competitive national funding programs (including CREST, PRESTO, ACT-I) or other research aids (including private foundations, overseas organizations) from which the research director or the lead joint researcher is receiving funds or for which an application is being or is planned to be made. Also see Application Guideline “8.3 measures for untenable concentration of duplications or excesses.”*

## Research Director：Name (Affiliation)

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| **No.** | **Program** | **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 2019 (planned)**  **(3) FY 2018 (planned)**  **(4) FY 2017**  **（Thousand yen/unit）** | **2019**  **FY**  **Effort**  **(％)** |
| - | CREST | Sub-mitted | Title of the proposed research project (Name of the Research Director) | 2019.10  －  2025.3 | Principal Investigator | (1)  (2)  (3)  ※See also form 5-2 ”Research Director’s Group” | See also Form4-1 |
| (1) | Grants-in-Aid for Scientific Research, Fundamental research (S) | Awarded | Creating W by V  (\*\* \*\*) | 2017.4  －  2021.3 | Principal Investigator | (1) 100,000  (2) 50,000  (3) 25,000  (4) 5,000 | 20 |
| (2) | ALCA,  JST Strategic Basic Research Programs | Submitted | Achieving high performance in X by Y  (\*\* \*\*) | 2018.9  －  2025.3 | Co-Principal Investigator | (1) 90,000  (2) 35,000  (3) 8,000  (4) - |  |
| (3) |  |  |  | － |  | (1)  (2)  (3)  (4) - |  |

[Notes]

・A proposal that was once adopted may be revoked if an entry differs from reality.

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

・Enter this proposed CREST theme first, followed by other research themes in a descending order of the amount of research funds (for the whole period) the applicant receives.

・Add rows if needed.

1. ***Status***

*Enter one of the following.*

*Do not enter effort for a theme corresponding to “Submitted” except for the CREST proposed theme.*

***Awarded:*** *It is currently awarded, or decided to be awarded.*

***Submitted:*** *It is at the state of selection and it is yet to be decided to be awarded.*

***(2) Role***

*Enter one of the following.*

***Principal Investigator:***

*Research fund is to be received as a representative for the research theme.*

***Co-Principal Investigator:***

*Research fund is to be received as a person in a non-representing position for the research theme*

1. ***Research fund received***

*Enter the amount of the research fund in thousand yen in a following manner.*

1. *Awarded as “Principal Investigator”” in the research project*

*Enter the amount of the research fund of the team supervised by the Principal Investigator, excluding that of joint research teams.*

*(b) Awarded as “Co-Principal Investigator”*

*Enter the amount of the research fund of the joint research team represented by the Co-Principal Investigator.*

1. ***2019FY Effort***

*Enter “ratio of time (%) necessary for conducting research relative to 100% for the whole work hours during the CREST research period (2019.10-2020.3) in fiscal year 2019 if adopted for CREST. Do not enter effort for themes that are already applied and in the process of selection, or that are planned to be applied (those entered as “Submitted”).*

*Take care that the sum of effort for the theme proposed for CREST and other themes that are entered as “Awarded” does not exceed 100%. If not, adoption may not be processed on e-Rad).*

*JST defines the effort ratio above, while Council for Science, Technology and Innovation defines “effort” as “ratio of time (%) distributed to adopted research to 100% for the whole work hours (including not only time for research activities but also that for educational and therapeutic activities) in a year.”*

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

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| **No.** | **Program** | **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 2019 (planned)**  **(3) FY 2018 (planned)**  **(4) FY 2017**  **（Thousand yen/unit）** | **2019**  **FY**  **Effort**  **(％)** |
| - | CREST | Submitted | *Title of the proposed research project*  *(Name of the Research Director)* | 2019.10  －  2025.3 | Co-Principal Researcher | (1)  (2)  (3)  (4)  *\*See also Form 5 ”Joint Research Group 1* | See also  Form  4-2 |
| (1) | Health and Labuor Sciences Research Grants | Awarded | Deployment for Z (\*\* \*\*) | 2017.9  －  2021.3 | Principal Researcher | (1) 50,000  (2) 20,000  (3) 20,000  (4) 5,000 | 10 |
| (2) |  |  |  | － |  | (1)  (2)  (3)  (4) |  |
| (3) |  |  |  | － |  | (1)  (2)  (3)  (4) |  |

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

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| **No.** | **Program** | **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 2019 (planned)**  **(3) FY 2018 (planned)**  **(4) FY 2017**  **（Thousand yen/unit）** | **2019**  **FY**  **Effort**  **(％)** |
| - | CREST | Submitted | *Title of the proposed research project*  *(Name of the Research Director)* | 2019.10  －  2025.3 | Co-Principal Researcher | (1)  (2)  (3)  (4)  *\*See also Form 5 ”Joint Research Group 1* | See also  Form  4-2 |
| (1) | X Foundation/Y Research grant | Awarded | Challenging research in the field of Y  (\*\* \*\*) | 2017.4  －  2019.3 | Principal Investigator | (1) 2,000  (2) 0  (3) 1,000  (4) 1,000 | 15 |
| (2) |  |  |  | － |  | (1)  (2)  (3)  (4) |  |

(CREST – Form 10J)

# Protection of Human Rights and Compliance with Laws and Regulations (Japanese Side)

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 when checked）*

☐ Above Checked

(by Research Director on Japanese side)

(CREST – Form 11J)

# Other Special Remarks

*In Form 11J, Provide an overall description of other special remarks in less than two 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

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

*Follow the description of Application Guideline “5.1.2 (2)Individuals Involved in the Selection Process” to describe conflict of interest of the research applicant shared with the research director or research area advisor of the research area to which the proposal is submitted.*

*【Example】Clearly show to which conditions conflict of interest shall apply, if yes.*

**Conflict of interest between the research applicant and the research supervisor:** yes

The research applicant conducted joint research with the research supervisor on ○○project

(1997-2000). It comes under condition (f) for conflict of interest stipulated in 5.1.2(2).

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

*<Note for Description>*

1. **Conflict of interest between the research applicant (research director) and evaluators (research supervisor, research area advisor)**
2. ***Conflict of interest between the research applicant and the research supervisor (as evaluator)***

*As shown in the Application Guideline “5.1.1 Conflicts of Interest Involving Research Project Applicants and the Research Supervisor”, the research applicant (research director) is excluded from the selection process if the relationship between the research applicant (research director) and the research supervisor comes under the definition of conflict of interest stipulated in the guideline.*

*In this item, describe conflict of interest shared with the “research supervisor as an evaluator” stipulated in the Application Guideline “5.1.2 (2)* *Individuals Involved in the Selection Process.” Even if the relationship does not come under conflict of interest that fringe on a restriction for proposal stipulated in Application Guideline“5.1.1 Conflicts of Interest Involving Research Project Applicants and the Research Supervisor,” concisely explain the situation when any one of the following conflict of interest exists between the applicant(research director) and the research supervisor.*

***＜Cases in which conflict of interest is observed between a research applicant and the research supervisor as evaluator, although the applicant is not excluded from selection process＞***

***【5.1.2(2) b Affiliation with the same department or research lab at a university or other national government-funded research and experiment institution】***

***【5.1.2(2) e Relationships of direct competition】***

***【5.1.2.(2) f Other relationships judged by JST to represent conflicts of interest】***

***（Example: Although the relationship lasted for less than 10 years in total, the research applicant was either in a close mentor-student relationship with the research supervisor (affiliated with the same laboratory) or directly employed by the research supervisor. /The research applicant conducted a close collaborative research with the research supervisor more than 5 years ago.）***

*If JST judges that “conflict of interest exist although the research supervisor is not excluded from selection process” on the basis of this information, JST will ask the research supervisor to refrain from expressing their opinion in discussions about the selection of the pertinent research applicant during the review of documents and the interview.*

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

*Describe whether conflict of interest exists between the research applicant (research director) and the research area advisor. When conflict of interest is observed, concisely describe the reason including whether the conflict of interest comes under a condition of Application Guideline “5.1.2 (2)* *Individuals Involved in the Selection Process.” A research area advisor that JST judged to share conflict of interest based upon the description is excluded from reviewing the proposal and is asked to refrain from speaking at the selection process and not to participate in the interview for selection. For this reason, be sure to clearly enter the name of the research area advisor with conflict of interest. As for a list of research area advisors, see the website for research areas to which applications are to be submitted, which is linked to the website for submitting applications “FY2019 Research Areas Calling for Proposals (http://www.jst.go.jp/kisoken/boshuu/teian/en/top/ryoiki.html).”*

***[Application Guideline 5.1.2.(2): Conditions for those with conflict of interest (summary)”]***

***(a) Relatives***

***(b) Affiliation with the same department or research lab as the research project applicant at a university or other national government-funded research and experiment institution, or Affiliation with the same company***

***(c) Close cooperation on a joint research project (For example, working on a joint research project, publishing co-authored a research paper, working toward the same objectives as a member of the same research team, performed different parts of the same research project, or were otherwise essentially affiliated with the same research group).***

***(d) Close teacher-student relationship, or a direct employer-employee relationship***

***(e) Relationships of direct competition***

***(f) Other relationships judged by JST to represent conflicts of interest***

1. Conflict of interest between the lead joint researcher and the research supervisor

*【Example】Clearly show to which conditions conflict of interest shall apply, if yes.*

**Conflict of interest between the lead joint researcher and the research supervisor:**

Lead Joint Researcher (1)- (Name): No

Lead Joint Researcher (2)- (Name): Yes

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

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

*<Note for Description>*

*Follow the description of Application Guideline “5.1.2 those involved in choosing selection methods (2)” to describe conflict of interest of each lead joint researcher shared with the research supervisor to which the proposal is submitted.*

*If JST judges that the conflict of interest exist on the basis of this information, JST will ask the research supervisor to refrain from expressing their opinion in discussions about the selection of the research applicant that plans to collaborate with the pertinent lead joint researcher during the review of documents and the interview.*

***[Application Guideline 5.1.2.(2): Conditions for those with conflict of interest (summary)”]***

***(a) Relatives***

***(b) Affiliation with the same department or research lab as the research project applicant at a university or other national government-funded research and experiment institution, or Affiliation with the same company***

***(c) Close cooperation on a joint research project (For example, working on a joint research project, publishing co-authored a research paper, working toward the same objectives as a member of the same research team, performed different parts of the same research project, or were otherwise essentially affiliated with the same research group).***

***(d) Close teacher-student relationship, or a direct employer-employee relationship***

***(e) Relationships of direct competition***

***(f) Other relationships judged by JST to represent conflicts of interest***

## (Only for those relevant) The reason why lead joint researcher at overseas research organization will join the proposed research

1. Necessity for the lead joint researcher at overseas research organization to join, the internal rule for security exports control

*Describe concretely the reason why it is essential to add the researcher at overseas organization for accomplishment of research director’s project plan. Describe the status of the rules provided for security exports controls in a research director’s group or joint research group.*

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

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

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

***<Notes for Description>***

*A research contract needs to be concluded between JST and the overseas research organizations “when the research applicant conducts research at an overseas research organization and the research organization executes research expenses including purchases of goods, as stated in [Application Guideline “5.2.6 duties of a research organizations” (2) cases in which an organization for conducting research exists overseas”]. For this reason, check with the person responsible for research contracts at the overseas research organization to find whether a research contract could be concluded using the template for research contracts with overseas research organizations shown below at URL (http://www.jst.go.jp/kisoken/boshuu/teian/en/top/koubo.html).*

*JST may directly check whether a contract could be concluded with the overseas research organization with a person at its department responsible for research contracts through the research applicant after the deadline for proposals. For this purpose,* ***enter the contact (name, affiliation, e-mail address, telephone number)*** *of a person responsible for research contracts at the overseas research organization*

*Before the interview selection process, submit a form (required for only the applicant who is to be interviewed after selection by documents) for entering whether the person responsible for research contracts at the research organization approves requirements for the research contract presented by JST(\*).*

*(\*)JST’s Requirements for research contract (Principal Requirements)*

*For details, See “template for research contracts to be used by overseas research organizations”:* <http://www.jst.go.jp/kisoken/boshuu/teian/en/top/koubo.html>

*(1) Payment for indirect expenses does not exceed 30% of direct expenses (research expenses)*

*(2) Intellectual property rights for results of the proposed research must be transferred to JST free of charge (however, the overseas research organization possesses the right to use the results for internal academic research and other non-commercial purposes)*

*(3) The overseas organization must prepare and provide JST with detailed documents describing pertinent expenses in English.*

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

## The other special remarks: Reasons for the application, 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 (mainly for Japanese side)

(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 8.1 | □ |
| Conflict of interests with the Research Supervisor\* | | Section 5.1.1 |  |
| A | The research project applicant is a relative of the Research Supervisor. | | No □ |
| B | The research project applicant 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 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 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/en/top/koubo.html

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.

|  |  |  |  |
| --- | --- | --- | --- |
|  | 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? | □ |
| Form 2-2 | Major Achievements of the Research Director | 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. | □ |
| Form　3-1 Annex | The research roadmap for development and social implementation toward society 5.0 (for applicants of Computational Foundation only) | The form 3-1 Annex is within one page when converted PDF. | □ |
| Form 3-2 | Project Organization and Research Schedule | The form 3-2 is within two pages when converted PDF. | □ |
| Form　4-1 | Research Project Organization 1 (within two pages) | All necessary information is given (Particularly, effort is provided). the form 4-1 is within two pages when converted 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 collaborative group when converted PDF. | □ |
| Form　5 | Research Budget | Total Sum is matched with the research budget given in Form 1. | □ |
| Form　6 | List of Achievements (Research Director) / 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 around one page. | □ |
| Form 9 | Information on Other Supports | All necessary information is given. | □ |
| 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 two pages when converted PDF. | □ |