# FY 2024 Application ANR-JST(CREST) Joint Call

(CREST - Form 1)

# Research Proposal

|  |  |
| --- | --- |
| Research Area | Fundamental Technology for Semiconductor-Device Structures Using Nanomaterials |
| Title of proposed research project |  |
| **Japanese Side** | |
| Name of Research Director (PI) |  |
| Affiliated Institution,  Section, Title |  |
| Academic Background |  |
| Professional Appointments of Research Director (PI)  (Main work history and research contents) |  |
| Information of Research Director (PI) | URL: |
| Research Period | [Oct. 2024] – [mm. yy] (xx years) |
| Total Research Budget | Total Budget: 　　　thousand yen |

French Side

(CREST - Form 2)

|  |  |
| --- | --- |
| Name of Research Director (PI) |  |
| Affiliated Institution,  Section, Title |  |
| Academic Background |  |
| Professional Appointments of Research Director (PI)  (Main work history and research contents) |  |
| Information of Research Director (PI) | URL: |
| Research Period | [Oct. 2024] – [mm. yy] (xx years) |
| Total Research Budget | Total Budget: 　　　thousand euros |

# Research Proposal Overview

## Outline of Research Project

(CREST –Form 3-1)

# Project Description

## 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

## 1．Project Organization

|  |  |  |  |
| --- | --- | --- | --- |
| Group Name | Name of PI / Co-PI | Affiliation and Title | Research Title  (around 12 words) |
|  |  |  |  |
|  |  |  |  |
|  |  |  |  |

## 2．Research Schedule

*Example*

|  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Research Subjects | 2024  Fiscal year  (6 months) | | 2025  Fiscal Year | | 2026  Fiscal  Year | | 2027  Fiscal  Year | | 2028  Fiscal  Year | | 2029  Fiscal Year  (12months) | |
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| **3.** |  |  |  |  |  |  |  |  |  |  |  |  |
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(CREST – Form 4-1)

# Research Project Organization 1 (Japanese Side)

　 (Research Members of the PI’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.)

## PI’s Group *example*

|  |  |  |
| --- | --- | --- |
| **PI** | **Affiliation**1) **, Department** | **Title** |
| ○○　○○ | Department of \*\*\*, Graduate School of \*\*\*, \*\*\* University | Professor |
| **Research**  **Participants**2,3) | **Affiliation**4) **, Department**  (Omit if the same as above) | **Title** |
| ○○　○○ |  | Professor |
| ○○　○○ |  | Associate Professor |
| ○○　○○ |  | Lecturer |
| ××　×× | \*\*\* Laboratory, \*\*\* Co., Ltd. | Principal Researcher |



## ○ 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 (Japanese Side)

(Research Members of the Co-PI’s Group)

## Co-PI’s Group (1)

|  |  |  |
| --- | --- | --- |
| **Co-PI** | **Affiliation**1) **, Department** | **Title** |
|  |  |  |
| **Research Participants**2,3) | **Affiliation**4) **, Department**  (Omit if the same as above) | **Title** |
|  |  |  |
|  |  |  |
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## ○ Research Subjects and Overview

### ・Title of Research Theme of the Co-PI’s 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 Co-PI’s groups):

### ・An alternative proposal for cooperation with the applicable group, in case a contract cannot not be concluded (applicable only to overseas Co-PI’s groups):

.

### ・The state of enforcement of the security trade control (applicable only when an overseas Co-PI’s Group is involved):

(CREST – Form 4-1)

# Research Project Organization 1 (French Side)

　 (Research Members of the PI’s Group)

## Main Co-PI’s Group

|  |  |  |
| --- | --- | --- |
| **PI** | **Affiliation**1) **, Department** | **Title** |
|  |  |  |
| **Research**  **Participants**2,3) | **Affiliation**4) **, Department**  (Omit if the same as above) | **Title** |
|  |  |  |
|  |  |  |
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|  |  |  |

## ○ 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 (French Side)

(Research Members of the Co-PI’s Group)

Joint Research Group (1)

|  |  |  |
| --- | --- | --- |
| **Co-PI** | **Affiliation**1) **, Department** | **Title** |
|  |  |  |
| **Research Participants**2,3) | **Affiliation**4) **, Department**  (Omit if the same as above) | **Title** |
|  |  |  |
|  |  |  |
|  |  |  |
|  |  |  |

## ○ Research Subjects and Overview

### ・Title of Research Theme of the Co-PI’s 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 Co-PI’s groups):

### ・An alternative proposal for cooperation with the applicable group, in case a contract cannot not be concluded (applicable only to overseas Co-PI’s groups):

### ・The state of enforcement of the security trade control (applicable only when an overseas Co-PI’s Group is involved):

(CREST – Form 5)

# Research Budget (Japanese Side)

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

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
|  | **1st Year**  2024.10～  2025.3 | **2nd Year**  2025.4～  2026.3 | **3rd Year**  2026.4～  2027.3 | **4th Year**  2027.4～  2028.3 | **5th Year**  2028.4～  2029.3 | **Final Year**  2029.4～  2030.3 | **Total**  (Thousand yen) |
| **Equipment** |  |  |  |  |  |  |  |
| **Materials/**  **Consumables** |  |  |  |  |  |  |  |
| **Travel** |  |  |  |  |  |  |  |
| **Personnel and Services**  **(Number of Researchers)** |  |  |  |  |  |  |  |
| **Other** |  |  |  |  |  |  |  |
| **Total**  (Thousand yen) |  |  |  |  |  |  |  |

## Remarks on the research budget

(CREST – Form 5)

## 2．Research Budget plan by group

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
|  | **1st Year**  2024.10～  2025.3 | **2nd Year**  2025.4～  2026.3 | **3rd Year**  2026.4～  2027.3 | **4th Year**  2027.4～  2028.3 | **5th Year**  2028.4～  2029.3 | **Final Year**  2029.4～  2030.3 | **Total**  (Thousand yen) |
|  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |
| **Total**  (Thousand yen) |  |  |  |  |  |  |  |

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

# Research Budget (French Side)

## 1．Research Budget Plan in Item (Entire Team on French Side) *example*

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
|  | **1st Year**  2024.10～  2025.3 | **2nd Year**  2025.4～  2026.3 | **3rd Year**  2026.4～  2027.3 | **4th Year**  2027.4～  2028.3 | **5th Year**  2028.4～  2029.3 | **Final Year**  2029.4～  2030.3 | **Total**  (Thousand yen) |
| **Equipment** |  |  |  |  |  |  |  |
| **Materials/**  **Consumables** |  |  |  |  |  |  |  |
| **Travel** |  |  |  |  |  |  |  |
| **Personnel and Services**  **(Number of Researchers)** |  |  |  |  |  |  |  |
| **Other** |  |  |  |  |  |  |  |
| **Total**  (Thousand Euro\*) |  |  |  |  |  |  |  |

## Remarks on the research budget

**\* In JST-ANR Joint Call, Budget upper limit on French side is 500,000 euro/5.5 years, including all research teams (main CO-PI, Joint Researchers).**

(CREST – Form 5)

## 2．Research Budget plan by group

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
|  | **1st Year**  2024.10～  2025.3 | **2nd Year**  2025.4～  2026.3 | **3rd Year**  2026.4～  2027.3 | **4th Year**  2027.4～  2028.3 | **5th Year**  2028.4～  2029.3 | **Final Year**  2029.4～  2030.3 | **Total**  (Thousand yen) |
|  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |
| **Total**  (Thousand yen) |  |  |  |  |  |  |  |

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

(CREST – Form 6)

# Research Achievement (Japanese Side)

# (PI：　　　　　　　　　　)

**【Author notation in English papers by the PI：　　　　　　　　】**



(CREST – Form 7)

# List of Achievements (Co-PI(s)) (Japanese Side)

(CREST – Form 6)

# Research Achievement (French Side)

# (PI：NAME of Researcher)

**【Author notation in English papers by the PI：　　　　　　】**

(CREST – Form 7)

# List of Achievements (Co-PI(s)) (French Side)

(CREST – Form 8)

# Information on Other Supports (Japanese Side)

(CREST – Form 8)

**[Notes]**

## PI：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 2025 (planned)**  **(3) FY 2024 (planned)**  **(4) FY 2023 (actual)**  **（Thousand yen/unit）** | **2024**  **FY**  **Effort**  **(％)** |
| - | CREST  (This Application) | Sub-mitted | Title of the proposed research project (Name of the PI) | 2024.10  －  2030.3 | Principal Investigator | (1)  (2)  (3)  *\*Same amounts in form 5*  *”2.PI’s Group”* |  |
| (1) |  |  |  |  |  | (1)  (2)  (3)  (4) |  |
| (2) |  |  |  |  |  | (1)  (2)  (3)  (4) | - |
| (3) |  |  |  |  |  | (1)  (2)  (3)  (4) |  |

## Co-PI (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 2025 (planned)**  **(3) FY 2024 (planned)**  **(4) FY 2023 (actual)**  **（Thousand yen/unit）** | **2024**  **FY**  **Effort**  **(％)** |
| - | CREST  (This Application) | Submitted | *Title of the proposed research project*  *(Name of the PI)* | 2024.10  －  2030.3 | Co-Principal Investigator | (1)  (2)  (3)  *\*Same Amounts in form 5*  *“2.Co-PI’s group 1”* |  |
| (1) |  |  |  |  |  | (1)  (2)  (3)  (4) |  |
| (2) |  |  |  |  |  | (1)  (2)  (3)  (4) |  |
| (3) |  |  |  |  |  | (1)  (2)  (3)  (4) |  |

# Other Special Remarks (Japanese Side)

(CREST – Form 9)

## 1．Conflict of interest between the applicant and evaluators

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

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

□YES　　 □NO

If YES, state the reason.

Reason:

(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:

Reason:

## (2) Conflict of interest between the Co-PIs and evaluators (the research supervisor/ research area advisors)

(a)Co-PI (1): (Name), (Affiliation)

1) Conflict of interest with the research supervisor (as an evaluator):

□YES　　 □NO

　 If YES, state the reason.

Reason:

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:

Reason:

(b) Co-PI (2): (Name), (Affiliation)

　 1) Conflict of interest with the research supervisor:

□YES　　 □NO

　 If YES, state the reason.

Reason:

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: (　　)

Reason:

## 2．Co-PI’s group organization that is related to the PI (organizations etc. established based on R&D achievements by the PI etc.)

Organization that is related to the PI:

□YES　　 □NO

If YES, write the name of the organization and the Co-PIs as well as state the reason.

　　The name of the organization (the Co-PI’s name participating):

Reason:

## 3．Participation by a research group of a company financed by JST

Participation by a company financed by JST:

□YES　　□NO

If YES, write the name of the organization and the PI / the Co-PIs.

　　The name of the organization (the PI):

The name of the organization (a Co-PI):

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

## 5．(Only for those relevant) special notes for efforts by a PI

## 6．The other special remarks: