JAPAN-**VIETNAM
Joint Call for Proposals on “Semiconductors”
Joint Applica**tion Form

**You may delete notes in blue italics in this form. Use 10.5-point font size.**

# Part I. General Information

## 1. Title of Research Project

## 2. Project Principal Investigators

### Japan-based Principal Investigator

|  |  |  |  |
| --- | --- | --- | --- |
| Last Name | e.g. Kagaku | First Name | e.g. Taro |
| Date of Birth |  |
| Organization/Department/ Position |  |
| Address |  |
| Tel |  |
| E-mail |  |

### Vietnam-based Principal Investigator

|  |  |  |  |
| --- | --- | --- | --- |
| First Name | e.g. David | Last Name | e.g. Science |
| Date of Birth |  |
| Organization/Department/ Title |  |
| Address |  |
| Tel |  |
| E-mail |  |

# Part II. Abstract

An abstract may not exceed **1 page** and should include:

1. Objectives

2. Methodology

3. Expected scientific results of the joint research

4. Mode of cooperation, including the exchange of people and human resource development (for example, young researchers including students)

5. Expected economic and social impact of the joint research

## 1. Objectives

## 2. Methodology

## 3. Expected Scientific Results of the Joint Research

## 4. Mode of Cooperation Including the Exchange of People

## 5. Expected Economic and Social Impact of the Joint Research

# Part III. Research Topic and Work Plan

## 1. Detailed Description of the Joint Project

Please refer to the evaluation criteria in the guidelines. References should be listed at the end of this section. Description may not exceed **6 pages**.

### 1) Problem statement:

What will be the problem addressed by the project and what is its importance? What will be the contribution to the area if successful? Please quote relevant works in the field as needed.

### 2) Expected Outcomes:

Describe scientific and technological outcomes as a result of the proposed project.

### 3) Scientific and technological challenges and the means and methods to overcome them:

Explain the scientific and technological challenges that the project proposes to overcome in order to achieve its objectives. Describe by what means and methods these challenges can be overcome. Cite references that help the reviewers who will analyze the proposal to understand that the mentioned challenges have not yet been overcome (or have not yet been adequately overcome) and that they can be overcome with the methods and means of the proposal under analysis.

### 4) Future Prospect of Research:

Describe the economic and social contributions expected from the research results and the added value expected from the project (focusing on synergies and mutual benefits of international collaboration).

### 5) Exchange Plan for Young Researchers:

Describe a specific plan and outcomes for exchange and development of research personnel who can contribute to joint research, including young researchers such as graduate and undergraduate students who can play an important role in the joint research and who are expected to be internationally active in the future, e.g., by promoting their international mobility and circulation, such as dispatching them to the partner country or holding workshops, providing international research opportunities such as presenting at international conference, or establishing joint laboratories.

Collaboration with other ASEAN Member States is also welcomed.

### 6) Bibliography:

Up to 5 relevant scientific publications / patent applications of the joint project related to the proposal published in the past 5 years. If there is no applicable item, please list the principal publications of each PI in the past 5 years and describe how you will collaborate in the future.

## 2. Time Schedule and Research Plan

Description may not exceed **4 pages**.

### 1st Year

Research Work Plan:

Itemize the specific research activities conducted by each team in each year.

1) Japan side

2) Vietnam side

Research Exchange Plan:

Including clear description of plan for joint workshops, researcher exchanges etc. in each year, purposes of and expected outcomes through these activities.

1) Japan side

2) Vietnam side

### 2nd Year

Research Work Plan:

1) Japan side

2) Vietnam side

Research Exchange Plan:

1) Japan side

2) Vietnam side

### 3rd Year

Research Work Plan:

1) Japan side

2) Vietnam side

Research Exchange Plan:

1) Japan side

2) Vietnam side

## 3. Researchers' Capacity Building Plan

Regarding support strategies for ECR candidates as researchers’ capacity building (doctoral degree attainment), describe the following items 1) to 3). A maximum of 3.9 million yen/year will be allocated to each ECR candidate, for a duration of up to 3.5 years.

In this call for applications, we expect to effectively implement international collaborative research and the development of early-career researcher (ECR) candidates, fostering researchers who will lead the next generation of semiconductor research and industry. The number of ECR candidates and budget details are required later (on the Part IV).

Description may not exceed **2 pages**.

1) Doctoral entrance examination month

e.g.

- August and January (XX University)

- July and February (YY University)

2) Entry strategies (hosting plans for ECR candidates)

Describe entry strategies for aim to ensure the quality of ECR candidates.

e.g. conducting pre-interviews and recommendation letters from the Vietnam-side PI.

3) Exit strategies (Post-graduation plans for ECR candidates)

Describe initiatives aimed at securing diverse career paths for ECR candidates, enabling them to succeed in Japanese industry or academia, or to return to their home countries and serve as bridges to Japan.

e.g. Through partnerships with companies and research institutions, provide ECR candidates with opportunities for internships and practical training. Additionally, regularly hold networking events for students to connect with HR representatives and industry leaders, facilitating the sharing of information about the actual work environment and the building of professional networks.

# Part IV. Budget Description (for Japan-side)

## 1. Budget Summary for International Joint Research in Japanese Yen

For Japanese applicants in international joint research, JST funding will be up to 105 million Japanese yen as direct expenses per project for a duration of 42 months.

Please fill in the expenditure plan in the table below, categorized by item, fiscal year, and direct costs. Additionally, please provide an expenditure plan for the exchange plan ((b) below) aimed at building and expanding international networks that will contribute to the promotion of international talent mobility and circulation, detailing expenses by item. This may include costs for holding workshops to strengthen connections and travel expenses, with a target of allocating around 30% of the total direct expenses ((a) below) for this purpose.

\* Additionally, 30% of the direct expenses (total budgets for international joint research and researchers’ capacity building) will be allocated as indirect expenses to the hosting institutions.

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Amount（1,000 yen） | Fiscal year 2025(6 months) | Fiscal year 2026 | Fiscal year 2027 | Fiscal year 2028 | **TOTAL (a)** |
|  | Exchange plan (b) |
| Facilities and equipment |  |  |  |  |  |  |
| Consumables |  |  |  |  |  |  |
| Travel |  |  |  |  |  |  |
| Personnel |  |  |  |  |  |  |
| Others |  |  |  |  |  |  |
| **Total amount** |  |  |  |  |  | *\*around 30% of the left cell* |

## 2. Budget Summary for Researchers’ Capacity Building in Japanese Yen

JST will support accommodation cost and research expenses for ECR candidates, with a maximum allocation of 3.9 million yen/year for each ECR candidate. Accommodation costs will range from 1.8 to 2.4 million yen/year, while research expenses will be capped at 1.5 million yen/year. The maximum duration of the support is 3.5 years until March 2029, making the total amount for researchers’ capacity building up to 13.65 million yen/person. Please clarify amount of supports in the table below based on your researchers’ capacity-building plan. Please refer to the Application Guidelines Appendix (for Japan-side PIs) for details.

\* Additionally, 30% of the direct expenses (total budgets for international joint research and researchers’ capacity building) will be allocated as indirect expenses to the hosting institutions.

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Research Institutions | Amount of total expenses(1,000 yen/year/person) | Number ofECR candidates(persons) | Durations(years) | **TOTAL**(1,000 yen) |
| e.g. Kagaku University | 3,900 | 3 | 3.5 | 35,700 |
| e.g. Kagaku University*\* If the support content differs even within the same university, please add rows and provide details.*  | 2,800 | 2 | 2 | 11,200 |
| e.g. Science University | 3,400 | 4 | 3.5 | 47,600 |
|  |  |  |  |  |
|  |  |  |  |  |
|  |  |  |  |  |
|  |  |  |  |  |
|  |  |  |  |  |
|  |  |  |  |  |
| **Total amount** |  |  |  |  |

# Part V. Budget Description (for Vietnam-side)

## Budget Summary in United States Dollars

Despite expenditure of a project may differ in each year, depending on the content of activities, the total budget for the Vietnamese researchers over a full 3.5-year period (i.e., 42 months) should not exceed 350,000 United State Dollars in principles.

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Amount（USD） | Fiscal year 2025 | Fiscal year 2026 | Fiscal year 2027 | Fiscal year 2028 | **TOTAL** |
| Facilities and equipment |  |  |  |  |  |
| Consumables |  |  |  |  |  |
| Travel |  |  |  |  |  |
| Personnel |  |  |  |  |  |
| Others |  |  |  |  |  |
| **TOTAL Budget Requested**  |  |  |  |  |  |

# Part VI. Research Participants

## 1. Japan-side

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Role | Name (last, first) | Institution/Department | Position | Role in Project |
| PI |  |  |  | *e.g. Leading project* |
| Co-PI*\*Please delete if not applicable* |  |  |  | *e.g. Analyzing research data* |
| Researcher*\*Please delete if not applicable* |  |  |  | *e.g. Collecting research data* |
| ECR candidate |  |  |  | *e.g. Analyzing research data* |

The Principal Investigator (PI) is the lead researcher responsible for the milestones and deliverables of the project, coordinating research activities carried by the research team, managing the grant award and submitting progress reports on behalf of the Japan-based research team.

The Co-Principal Investigator(s) (Co-PI) will be the person(s) leading and managing a particular aspect of the collaborative effort. When allocating research funding to different institutions within a research team, a Co-PI must be selected for each institution, who will then become the research contact for that institution under the contract research agreement.

If you have already decided on the ECR candidates, please list them in the table (you don’t need to write it if the candidates have not been decided now).

## 2. Vietnam-side

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Role | Name (last, first) | Institution/Department | Position | *Role in Project* |
| PI |  |  |  | *e.g. Leading project* |
| Co-PI*\*Please delete if not applicable* |  |  |  | *e.g. Analyzing research data* |
| Researcher*\*Please delete if not applicable* |  |  |  | *e.g. Collecting research data* |

# Part VII. Personal Background Information

Description may not exceed 2 pages.

## 1. Japan-side

### Principal Investigator: Name (Organization: Position)

Including education/training and professional background, most important 5 publications in the last 5 years, and notable awards and honors (up to 5 items)

### Co-Principal Investigator: Name (Organization: Position) *Please delete if not applicable*

### Past international personnel exchange achievements

Please describe the background and achievements of international joint research and researcher exchanges (dispatching young researchers, inviting researchers from other countries, holding of symposia, etc.) conducted by the Principal Investigator to date.

## 2. Vietnam-side

### Principal Investigator: Name (Organization: Position)

### Co-Principal Investigator: Name (Organization: Position) *Please delete if not applicable*

### Past international personnel exchange achievements