**MALAYSIA – JAPAN**

**JOINT CALL FOR PROPOSALS on “Green Technology”**

**MSE x NEXUS Research Collaboration**

**Joint Application Form**

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

# Part I. General Information

## 1. Title of Research Project

## 2. Priority Area

*Tick* ***ONE (1)******or MORE*** *subtopic(s) under Green Technology (/)*

|  |  |
| --- | --- |
| 1. Renewable Energy & Energy Efficiency
 |  |
| 1. Hydrogen
 |  |
| 1. Carbon Capture Utilisation & Storage (CCUS)
 |  |
| 1. Green Mobility
 |  |
| 1. Circular Economy
 |  |

## 3. Project Principal Investigators

**Japan-based Principal Investigator**

|  |
| --- |
| 1. **Details of Principal Investigator (PI)**
 |
| Last Name | ex：Kagaku | First Name | ex：Taro |
| Date of Birth |  |
| Organization/Department/ Position |  |
| Address |  |
| Tel |  |
| E-mail |  |
| 1. **Details of Co-Principal Investigator (Co-PI)**
 |
| Last Name |  | First Name |  |
| Date of Birth |  |
| Organization/Department/ Position |  |
| Address |  |
| Tel |  |
| E-mail |  |

**Malaysia-based Principal Investigator, Co-PI and Research Management Centre (RMC)**

|  |
| --- |
| 1. **Details of Principal Investigator**
 |
| First Name |  | Last Name |  |
| Nationality |  |
| Date of Birth |  |
| Institutional Affiliation |  |
| Position/ Title |  |
| Department |  |
| Address |  |
| Tel |  |
| Handphone Number |  |
| Work E-mail  |  |
| 1. **Co-PI Contact Details**
 |
| First Name |  | Last Name |  |
| Nationality |  |
| Date of Birth |  |
| Institutional Affiliation |  |
| Position/ Title |  |
| Department |  |
| Address |  |
| Tel |  |
| Handphone Number |  |
| Work E-mail |  |
| 1. **Details of Research Management Centre (RMC)**
 |
| Focal point of Research Management Centre (RMC) |  |
| 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 (for example, young researchers including students)*

*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(s) and Plan(s) for the 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 of young researchers including 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, or by providing international research opportunities such as presenting at international conference.*

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) Malaysia side

Research Exchange Plan:

*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) Malaysia side

**2nd Year**

Research Work Plan:

1) Japan side

2) Malaysia side

Research Exchange Plan:

1) Japan side

2) Malaysia side

**3rd Year**

Research Work Plan:

1) Japan side

2) Malaysia side

Research Exchange Plan:

1) Japan side

2) Malaysia side

# Part IV. Collaborations and Partnerships Requirement (for Malaysia-side)

*Description may not exceed 1 page.*

# Collaborative Institutions

(List all collaborating institutions and their respective roles in the project)

# Industry/Community Involvement

(Describe how industry or community partners will be involved in the project and benefitting the output/ outcomes)

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

## Budget Summary in Japanese Yen (Direct Expenses only)

*JST funding for Japanese applicants will be up to 24 million Japanese yen as direct expenses(a), and 7.2 million JPY as indirect expenses (an amount of equal to 30% of direct expenses), so up to 31.2 million JPY in total per project for 36 months.*

*Please fill in the expenditure plan in the table below, categorized by item, fiscal year, and direct costs. Additionally, please add the expenditure plan(b) to spend for the purpose of building and expanding international networks which will contribute to the promotion of international talent mobility and circulation, etc. (Include expenses for holding workshops to strengthen connections, travel expenses etc.). Please aim to allocate around 30% of the total direct expenses for the above purpose.*

*\*Please note, the 30% allocation is not a rigid requirement for each year’s expenses, but rather a flexible guideline based on the total direct expenses.*

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Amount（1,000 yen）** | **Fiscal year 2025** | **Fiscal year 2026** | **Fiscal year 2027** | **Fiscal year 2028** | **TOTAL(a)** |
|  | **Exchange plan(b)** |
| Facilities andequipment |  |  |  |  |  |  |
| Consumables |  |  |  |  |  |  |
| Travel |  |  |  |  |  |  |
| Personnel |  |  |  |  |  |  |
| Others |  |  |  |  |  |  |
| Total amount in Direct Expenses |  |  |  |  |  | *\*around 30% ofthe left cell* |

**Part VI. Budget Description (for Malaysia-side)**

*The Malaysia Science Endowment (MSE) will provide funding of up to RM 1,000,000 per project over a period of 36 months (by 2028). This funding is structured to be disbursed across three (3) milestones with a 40:40:20 fund disbursement ratio. Check out the eligible and ineligible costs under this scheme in the call guideline.*

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Expense Category** | **Notes/ Justification Description** | **Year 1** | **Year 2** | **Year 3** | **Total Budget by Category (RM)** |
| 1. Allowance for Research Assistant (RA)/ Research Officer (RO)/ Graduate Research Assistant (GRA)
 | A1. XXA2. XXA3. XX |  |  |  |  |
| 1. Research-Related Travel, Training, and Exchange Activities
 |  |  |  |  |  |
| 1. Rental
 |  |  |  |  |  |
| 1. Research Supplies, Materials and Consumables
 |  |  |  |  |  |
| 1. Minor Repair and Modification
 |  |  |  |  |  |
| 1. Specialised Services
 |  |  |  |  |  |
| 1. Accessories and Equipments
 |  |  |  |  |  |
| 1. Field test/ Pressure test/ User Test Acceptance/ Piloting
 |  |  |  |  |  |
| 1. Intellectual Property (IP)
 |  |  |  |  |  |
| Total Budget  | - | RM 400,000 | RM 400,000 | RM 200,000 | RM 1,000,000 |

# Part VII. Alignment with National Strategic Agenda (for Malaysia-side)

1. 10-10 MySTIE Socioeconomic Drivers

*Mark (/) alignment to ONE of the Socioeconomic Drivers of 10-10 MySTIE.*

|  |  |
| --- | --- |
| 1. Energy
 |  |
| 1. Business & Financial Services
 |  |
| 1. Culture, Arts & Tourism
 |  |
| 1. Medical & Healthcare
 |  |
| 1. Smart Technology & Systems (Next-generation Engineering & Manufacturing)
 |  |
| 1. Smart Cities & Transportation
 |  |
| 1. Water & Food
 |  |
| 1. Agriculture & Forestry
 |  |
| 1. Education
 |  |
| 1. Environment & Biodiversity
 |  |

1. Technology Readiness Level (TRL)

*Indicate (/) the Technology Readiness Level (TRL) of the project.*

|  |  |  |
| --- | --- | --- |
| **TRL Level** | **Description** | **Indicate TRL** |
| **TRL 1** | Basic Principle | - |
| **TRL 2** | Formulation of Concept | - |
| **TRL 3** | Experimental Proof of Concept |  |
| **TRL 4** | Lab Validation |  |
| **TRL 5** | Validation in real environment |  |
| **TRL 6** | Demonstration in real environment |  |
| **TRL 7** | Demonstration of prototype |  |
| **TRL 8** | Product/System complete and qualified |  |
| **TRL 9** | Product/System proven |  |

# Part VIII. 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 |  |  |  | *e.g. Collecting research data* |

## 2. Malaysia-side

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Role | Name (last, first) | Institution/Department | Position | Role in Project |
| PI |  |  |  |  |
| Co-PI |  |  |  |  |
| Researcher |  |  |  |  |
| Industry X/ Community X/ Organisation X |  |  |  |  |

# Part IX. Personal Background Information

*Description may not exceed 2 pages.*

*1 page for Japan-side researcher and 1 page for Malaysia-side researcher.*

## 1. Japan-side

1. **Principal Investigator:** **Name (Organisation: 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)*

1. **Co-Principal Investigator:** **Name (Organisation: Position)** *Please delete if not applicable*
2. **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. Malaysia-side

1. **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)*

1. **Co-Principal Investigator:** **Name (Organization: Position)** *Please delete if not applicable*
2. **Past international personnel exchange achievements**
3. **Details of previous and current research Grants and Awards received** *(Titles of projects, funding bodies, amounts awarded, and periods of funding. Encouraged to attach drive link for proof)*
4. **Relevant Documents & Attachments** *(CV etc., encouraged to attach drive link)*