

**e-ASIA Joint Research Program (the e-ASIA JRP)
Research Cooperation in the field of “Materials”
on the topics of
“Materials Informatics and Advanced Material Research by Utilizing
Computers”
10th Joint Call for Proposals to be submitted by 29 March 2021**

The e-ASIA Joint Research Program (hereinafter referred to as the “e-ASIA JRP”) aims to develop a vibrant and collaborative research community in Science and Technology, to promote innovation in the East Asian region, and to contribute to the region’s economic development. As part of the program, the Member Organizations of the e-ASIA JRP listed below have agreed to implement a joint call for proposals of multilateral cooperative research activities.

Participating Member Organizations (listed in alphabetical order):

- 1) Indonesia: Ministry of Research and Technology/ National Research and Innovation Agency (RISTEK/BRIN)
- 2) Japan: Japan Science and Technology Agency (JST)
- 3) Philippines: Department of Science and Technology (DOST-PCIEERD)
- 4) Singapore: Agency for Science, Technology and Research (A*STAR)
- 5) Thailand: Program Management Unit for Human Resources & Institutional Development, Research and Innovation (PMU-B)

I. Aim of Joint Call and Research Area

The aim of the joint call is not only to contribute to the development of regional science but also to address the needs in East Asia through multilateral collaboration. The e-ASIA JRP, therefore, invites research proposals that focus on Materials informatics (materials research by information science) and advanced material research by utilizing computers:

Due to recent evolution in computer and information processing technology, simulation technology is now more powerful and more sophisticated. Simulations have evolved from a simple-atomic, molecular or single-crystal scale to a complex multi-atomic nano-scale level. Given these developments, the effectiveness and necessity of these methods in material science has been recognized, and “Materials Informatics” research has become much more important.

This Joint Call is for Material Research by Computer Simulation, Computational Science, and DATA Science.

- Material Research by Computer Simulation: Computer simulation by first principles calculation and Monte Carlo method and others.
- Material Research by Computational Science: Computer calculation by first principles calculation and quantum molecular dynamics for materials research. Efficient material development by Computational Science.
- Material research by DATA Science: Inverse problem approach, Mechanical learning, Baye's theorem. Large-scale data analysis in order to discover the proper elements and catalyst efficiently.
- Material Research by Predicting Material Properties with Novel Algorithms and Big Data Approaches.
- Material Research by Designing through AI and Computational Techniques.
- Material Research by Molecular computational modeling.

And this Research Area of Joint Call is for the Material Research as below.

- Metals: Heat-resistant alloys, intermetallic compounds, and non-ferrous metals with high performance, good formability, improved balance between strength and ductility, and low cost. Applications include vehicle weight reduction, energy production, compressors, and turbine blades.
- Ceramics: Advanced ceramic with high performance, heat resistance, corrosion resistance and wear resistance.
- Polymers: Thermoplastic, Fiber-reinforced Plastics, Rubbers, Materials that have excellent quality, high toughness, low cost, excellent heat and impact resistance, and ultra lightweight.

As functional materials

- Batteries, fuel cells, thermoelectrics, and catalyst.

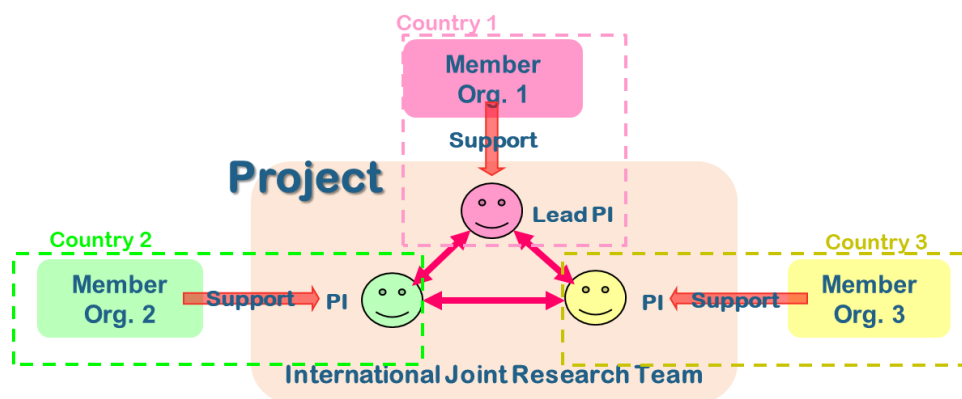
As structural materials

- Joining Technology of Multi-material: Making strong and durable connections for structural materials via welding, brazing, adhesive bonding, mechanical joining, diffusion bonding, solid-phase bonding, and special processes.

II. Support/ Funding Modality

In principle, each Member Organization will support its own country's researchers

in research projects selected for funding through this joint call with the type of support available as defined under “Funding Modality” in the table below. The duration of a selected research project will be three years (36 months), in total, from the start date. Details of conditions of support will vary by Member Organization. Applicants should carefully consider information included in the Appendix for each Member Organization’s rules and regulations.



Participating Member Organizations and Funding Modality

Participating Member Organizations	Funding Modality
(1) RISTEK/ BRIN (Indonesia)	New
(2) JST (Japan)	New
(3) DOST-PCIEERD (Philippines)	New
(4) A*STAR (Singapore)	In-kind
(5) PMU-B (Thailand)	New, In-kind

New: Each Member Organization will support a selected project by new funding

Re-budgeting: Funds already allocated to an existing project by each Member Organization will be reallocated to the e-ASIA JRP

In-kind: Each Member Organization does not provide budget for a selected project. A researcher participating in a selected project will use funds that are already available, but no additional fund will be provided by each Member Organization. In principle, at least one country must participate via “new” or “re-

budgeting” funding modality. In other words, proposals cannot be accepted if all the applicants intend to participate through an “in-kind” basis.

III. Application

In addition to the following common requirements, there are specific rules clarified by each Member Organization. For specific rules by each Member Organization, please refer to the Appendix or consult the person noted in Section VI.

III-1. Applicant/ Project Consortium

A project consortium must consist of at least three eligible research teams from at least three different participating countries listed above.

Each research team shall be led by a Principal Investigator (PI), and a consortium shall be led by a Lead Principal Investigator (Lead PI) specified among the PIs.

The Lead PI will be responsible for running and managing the project. The Lead PI will be the contact point with the e-ASIA JRP Secretariat on behalf of the whole consortium and is responsible for the administrative management of the complete project, should it be awarded support. In addition, the Lead PI is responsible for leading the project activities at his/her own institution. The Lead PI must be affiliated with an institution situated in the home country of one of the Member Organizations participating in this call.

All PIs must fulfil their respective domestic eligibility rules for research application. Researchers from industry are encouraged to participate in the collaboration in accordance with domestic eligibility rules. PIs should contact the person noted in Section VI for information on their respective domestic eligibility rules.

III-2. Proposal Submission

Proposals must be submitted from the Lead PI by e-mail to the e-ASIA JRP Secretariat at the e-mail address specified below. Applications must be written in English.

Deadline for Submission:
17:00 (Thai Standard Time, UTC+7) 29 March 2021

Please submit the proposal to:



Yoshihide Kobayashi (Mr.)
e-ASIA JRP Secretariat
E-mail: easia_secretariat@jst.go.jp

Note 1: The e-ASIA JRP Secretariat will send a confirmation email to the Lead PI to confirm receipt of his/her proposal. In case the Lead PI does not receive a confirmation e-mail from the e-ASIA JRP Secretariat within one week, they should contact the e-ASIA JRP Secretariat at the address above. The e-ASIA JRP Secretariat does not assume any responsibility for delay or error in e-mail delivery.

Note 2: Application forms sent by any method other than e-mail (such as post, fax or telex) will be rejected.

< Important Notice to ALL PIs >

Make sure to submit all necessary application documents requested by each Member Organization of your country, in addition to the application to the e-ASIA JRP Secretariat (submitted by Lead PI only), because each Member Organization may request applicants of its country to submit another form of proposals with another deadline date. Proposals shall satisfy both common requirements written in this call guideline and individual requirements requested by each Member Organization. A research team that does not satisfy individual requirements of the Member Organization of your country will not be deemed as eligible research team.

For individual requirements by each Member Organization, please refer to the Appendix or consult the person noted in Section VI.

The proposal shall include:

- a) Project description including how the collaboration will be carried out, with clear statements of what roles each country's researchers will play respectively in the project;
- b) Description of the expected outcomes of the proposed project,

- scientifically as well as in terms of relevance for industry and society;
- c) Description of the ongoing activities and specific advantages of each group respectively, which form the basis for the proposed joint project;
 - d) Description of the expected value added from the proposed joint project, including how the competence, technology and other resources in each group complement each other;
 - e) Description of how the project is expected to help strengthen multilateral research collaboration over the longer term;
 - f) Description of the expected value added from the multidisciplinary approach in the proposed joint project; and
 - g) Description of how the proposed joint project interacts with or impacts other comparable activities worldwide.

III-3. Application Forms

Researchers must prepare the following application (proposal) forms in English (“E”).

For further requirements by each Member Organization, researchers shall refer to the Appendix or shall consult each Member Organization of his/her country.

- Form 1E Application outline (title, acronym, general description and proposed period of cooperative research project)
- Form 2E Summary of the project
- Form 3E Research leaders’ information (their CVs*)
- Form 4E Research team (list of individuals committed to the cooperative research project in each country)
- Form 5E Description of the cooperative research project
- Form 6E Research networking plan
- Form 7E Plan to nurture early career researchers
- Form 8E Budget plan for the project
- Form 9E Research infrastructures and funds from other sources

** The description of Curriculum Vitae (CV) from each PI shall include basic information on education, past and present positions, membership of relevant organizations/associations and a publication list in the past 5 years.*

In addition to the documents above, all projects must comply with ethical review

and requirements of each Member Organization, especially for research activities related to human and animal subjects. PIs shall refer to the Appendix for each Member Organization's ethical requirement.

IV. Evaluation

IV-1. Evaluation Process

A proposal will be evaluated at each relevant Member Organization of the project consortium, according to the evaluation criteria clarified in the following subsection.

Based on the results of the evaluation conducted at each Member Organization, a final decision will be made at the joint panel meeting among the participating Member Organizations, followed by approval at the e-ASIA JRP Board Meeting.

IV-2. Evaluation Criteria

Proposals will be evaluated according to the following common e-ASIA JRP evaluation criteria, incorporated with evaluation criteria clarified by each Member Organization. For the evaluation criteria clarified by each Member Organization, please refer to the respective Appendix or consult each respective Member Organization.

1) Regional Relevance of the Research

The research activity should contribute to:

- The advancement of scientific discovery;
- The development of science and technology in the region; and
- The resolution of significant relevant issues across the region.

2) Mutual Benefits of the Joint Research

Activities of mutual benefit to the collaborators and their institutions are desirable. Mutually beneficial in the sense that the projects utilize unique opportunities the e-ASIA JRP will provide that could not be achieved either through bilateral or individual research but only through multilateral cooperation.

3) Effectiveness of Exchange

The project should:

- Contain activities to nurture early career researchers through research activities;

- Contain activities to engage female researchers where strengthening capacity is needed; and
- Enhance research capacity in the region.

IV-3. Notification of the Final Decision

The Lead PI will be notified the final decision by the e-ASIA JRP Secretariat as soon as the final decision is taken and approved by all Member Organizations in the e-ASIA JRP. (Approximate implementation of the notification: End of November 2021)

V. Project Implementation

Project reporting will be in accordance with the respective Member Organization's rules. Please contact respective Member Organizations for more details.

In addition to the Member Organization's requirements, the consortia are expected to deliver Progress Reports and Final Reports to the e-ASIA JRP Secretariat, in English, including a description of their collaboration and a publishable summary of the project status. The Progress and Final Reports will be reviewed by the Board and Scientific Advisory Council. It is also encouraged that the project proactively disseminates its achievements to the public.

V-1. Progress Report

In the middle of research period (i.e., after one and a half year), the lead PI shall promptly develop and submit an integrated progress report to the e-ASIA JRP Secretariat on the status of the joint research.

V-2. Final Report

A final report shall be developed and submitted by the Lead PI to the e-ASIA JRP Secretariat within two months after the completion of the joint research period.

V-3. Others

All the researchers/research institutions organizing a consortium are strongly recommended to conclude a Collaborative Research Agreement (hereinafter referred to as "CRA") to assure optimal understanding and coordination among the collaborating scientists working on each project before project starts. CRA should, with due respect to the researchers' institutions and the Member

Organizations' intellectual property and data handling policy, include the treatment of intellectual property rights, handling of confidential information, publication of research results, warranty and indemnification, and access to and transfer of the relevant materials. Applicants shall refer to the Appendix for each Member Organization's requirement.

VI. Contact information

Applicants should contact the following for information on each Member Organization's eligibility rules or support conditions:

Also please refer to the Appendix for information of each Member Organization.

Country: Member Organization	Contact Point
(1) Indonesia: Ministry of Research and Technology/ National Research and Innovation Agency (BRIN)	Ms. Anggun Amalia Fibriyanti/ Mr. Adhi Indra Hermanu Tel: +62-21-3169119 e-mail: afibriyanti@ristekbrin.go.id / manoe@ristekbrin.go.id
(2) Japan: Japan Science and Technology Agency (JST)	Mr. Hiroshi Kambegawa, Mr. Masayoshi Higuchi, Mr.Hideaki Kodani, Dr. Junko Katayama TEL: +81 (0)3-5214-7375 E-mail: easiajrp@jst.go.jp
(3) Philippines: Department of Science and Technology – Philippine Council for Industry, Energy and Emerging Technology Research and Development (DOST -PCIEERD)	Dr. Enrico C. Paringit DOST-PCIEERD Tel: (+632) 8837-2071 locals 2100, 2121, 2120 and 2107 E-mail: enrico.paringit@pcieerd.dost.gov.ph
(4) Singapore: Agency for Science, Technology and Research (A*STAR)	Ms. Claire NG Tel: +65 6826 6254 E-mail: Claire_NG@a-star.edu.sg
(5) Thailand: Program Management Unit for Human Resources & Institutional Development, Research and Innovation (PMU-B)	Miss Nopparat Wanitsuksombut Tel: +66 2470 7961-4 E-mail: pmu.b@nxpo.or.th

Applicants should contact the following for general inquiries:



Yoshihide Kobayashi (Mr.)

e-ASIA JRP Secretariat / Japan Science and Technology Agency

Room 218 Innovation Cluster1 Building

National Science and Technology Development Agency (NSTDA)

111 Thailand Science Park, Phahonyothin Road

Khlong Nueng, Khlong Luang, Pathum Thani 12120 THAILAND

Tel: +66-2-564-7713 H/P: +66-61-421-0316

E-mail: easia_secretariat@jst.go.jp

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Information about each Member Organization (alphabetical order by country)

- 1) Indonesia: Ministry of Research and Technology/ National Research and Innovation Agency (RISTEK/BRIN) 12
- 2) Japan: Japan Science and Technology Agency (JST) 14
- 3) Philippines: Department of Science and Technology – Philippine Council for Industry, Energy and Emerging Technology Research and Development (DOST-PCIEERD) 19
- 4) Singapore: Agency for Science, Technology and Research (A*STAR) 22
- 5) Thailand: Program Management Unit for Human Resources & Institutional Development, Research and Innovation (PMU-B) 23

1) Indonesia: Ministry of Research and Technology/ National Research and Innovation Agency (RISTEK/BRIN)

Indonesian researchers who seek new funds from RISTEK/BRIN need to apply for “Riset Kemitraan” Scheme, RISTEK/BRIN’s competitive funds. The Indonesian PI MUST be from Higher Education Institutions/University under Ministry of Education and Culture (KEMDIKBUD). Other research Institutions may join the project as Co PI. After the awardee list has been announced by the e-ASIA secretariat of the Joint Research Program (the e-ASIA JRP), Indonesia PI should contact RISTEK/BRIN for the proposal submission process.

RISTEK/BRIN requires the Indonesian Principal Investigator to meet conditions by Simlitabmas Guideline, with minimum requirements as follows:

- Applications only are accepted from PI in University. The Indonesian PI MUST be from Higher Education Institutions/ University under KEMDIKBUD.
- Indonesian citizens and hold a permanent or fixed-term contract in an eligible university or research institute in Indonesia;
- Competent in oral and writing English skills;

The proposed budget submitted must be related to the Minister of Finance Regulation, for each unit/component have a maximum budget at year (standard of special cost and standard of input cost). The awardee selected proposed funding will be subject to assessment by RISTEK/BRIN reviewer. The amount of funds will be determined through the evaluation process by the reviewer assigned by RISTEK/BRIN.

Personnel Costs

Costs for student research assistants can be covered if their work is related to the research project, by referring to the Regulation of the Minister of Finance of the Republic of Indonesia, specifically the “Standar Biaya Masukan (Standard of input cost)”.

Mobility of Indonesian and foreign researcher and experts

For Indonesian researcher to the country of research partner:

- Flight to and from destination: economy class flight
- Visa costs
- Transfer to and from the airport

- Daily allowance (the amount depends on the destination, check the standard of input cost)
- Insurance fees

For Foreign researcher:

Our research grant is restricted with Indonesian Financial regulation that limits the use for Indonesian researcher only.

Equipment

Indonesian grant could not be used for equipment.

Scientific events and project meetings in Indonesia or country of research partner

- Room rent
- Catering
- Other costs necessary for the implementation
- Publications
- Travel costs and accommodation for external experts based on the regulation above
- The costs for the event have to be requested by the project partner in the hosting country

Please adjust the simlitabmas guidelines as a reference for funding from Indonesia.

Contact Information



Ms. Anggun Amalia Fibriyanti / Mr. Adhi Indra Hermanu

Directorate of Research and Community Services

Ministry of Research and Technology / National Research and Innovation Agency (RISTEK/BRIN)

Tel: +62-21-3169119

e-mail: afibriyanti@ristekbrin.go.id, manoe@ristekbrin.go.id

2) Japan: Japan Science and Technology Agency (JST)

Japan-based applicants must complete all the requirements designated by JST. Information on additional requirements applied to Japan-based applicants are available at the official domestic call announcement on the JST website.

JST's official call announcement:

https://www.jst.go.jp/inter/program/announce/announce_easia_jrp_10th.html

I. Eligibility for Japan-based applicants

- Any independent researcher personally affiliated with and actively conducting research at a domestic Japanese research institution (or who will fulfil this requirement by the start of the research project), regardless of nationality, is eligible to apply as a Principal Investigator.
Note: "Domestic Japanese research institution" in Japan refers to universities, independent administrative institutions, national/public testing and research institutions, specially authorized corporations, public - service corporations and enterprises, etc. that must satisfy predetermined requirements designated by the Ministry of Education, Culture, Sports, Science and Technology (MEXT).
Japan-based researchers from industry are also eligible to apply as a Principal Investigator in the joint research project in the Japan-based team.
- Early career researchers who completed his/her doctorate in the last 10 years are strongly encouraged to apply.

II. Support

II-1. Funding Modality

JST will support each Japan-based team with a "new fund" up to 27 million Japanese Yen as direct cost for 36 months. The overhead cost of 30% of direct cost will be added separately. The budget for a project may differ each year, depending on the content of activities. The amounts will be adjusted each year due to the budgetary limitations for this program.

II-2. Expenditure/costs eligible for funding

This program is designed to support expenses related to cooperation by a Japan-based researcher with their counterparts, such as expenses for travel and/or conducting seminars/symposia.

Funding provided within this call is intended to enhance the capacity of the applicants to collaborate. Funding will therefore be provided mainly in support of collaborative activities but may also cover some of the local research costs that

are necessary for the collaboration. In principle, eligible direct costs are those costs directly necessary for accomplishing the research, indicated below. Please refer to the guidance documents available at the following link for further details of eligible direct costs: <https://www.jst.go.jp/inter/research/contract/contract.html> (in Japanese only).

1. Eligible Direct Costs:

- i) **Facilities, Equipment and Consumables:** costs of research equipment, spare parts, prototypes,
- ii) **Travel Costs:** travel costs and associated living expenses of the project members registered in the project plan, and travel costs of inviting external experts.
- iii) **Salaries and Honoraria:** salaries of the researchers, temporary staff, PhD students, post - docs, etc., who are hired for the research, and other costs such as honoraria for invited lecturers.
- iv) **Others:** costs for organizing meetings in Japan including rental costs for the venue, food & beverage (excluding alcohol) costs and other costs which are deemed to be necessary for organizing the event. Expenses for creating software, renting or leasing equipment, transporting equipment, etc.

2. Overhead cost shall be 30% of direct costs.

Note: Please refer to the following link for the provisions regarding indirect costs: https://www8.cao.go.jp/cstp/compefund/shishin1_tekiseisikkou.pdf (in Japanese only).

II-3. Payments

Payments will be made according to a contract for commissioned research entered into between JST and a "Domestic Japanese Research Institution". The contract for commissioned research will be renewed each year over the cooperative research period. Since the contract is agreed on condition that all administrative procedures related to this project will be handled within the institution, the PI should consult with the department in charge at his/her institution.

III. Application

Applicants of each Japan-based team are required to complete necessary submission as specified below.

III-1. Submission of Application Forms (Form E1-E9) (from the Lead PI)

Proposals must be submitted by e-mail to the e-ASIA JRP Secretariat.

III-2. Additional Application Forms (For Japan-based applicants only)

In addition to the common Application Forms in English (Form E1-E9), Japan-

based applicants are required to complete and submit additional application forms in Japanese (Forms 1J and 2J) to JST by “e-Rad” (<https://www.e-rad.go.jp/index.html>).

- **Forms 1J and 2J are available from the JST website:**
https://www.jst.go.jp/inter/program/announce/announce_easia_jrp_10th.html
(in Japanese only)
- **The deadline for the “e-Rad” submission:**
19:00 (Japan Standard Time) 29th March 2021

IV. Evaluation of Project Proposals

Independent Committees consisting of experts will evaluate all proposals. Based on the results of the evaluation, a common decision will be decided jointly among Member Organizations participating in the call regarding funding of the selected proposals.

IV-1. Evaluation Criteria

The following evaluation criteria, incorporated with the e-ASIA JRP evaluation criteria (see IV-2. Evaluation Criteria in the Call Guideline), will apply to each application:

i) **Conformity with Program Aims and Designated Research Fields**

The proposed activity shall conform to the aims of the program and the research fields that the program designates. In addition, the applicants shall already have a good research foundation for their proposed activity.

ii) **Capability of Principal Investigators**

The principal investigators of collaborating countries shall have the insight or experience for pursuing the activity and the ability to manage the cooperation and reach the project goals during this program’s period of support. The call aims to take into account the potential of early career researchers who have completed their doctorate in the last 10 years in this role.

iii) **Effectiveness and Synergy of Cooperative Research Project**

The proposed research activity shall be eminent, creative and at an internationally high level in an attempt to produce a significant impact on the development of future science and technology or to solve global and regional common issues or to create innovative technological seeds that can contribute to the creation of new industries in the future.

Moreover, proposed research activities that can be expected to create synergy through collaborative research with the counterpart institution will be preferred. Such synergy could be attained through, for example, the acquisition and/or

application of knowledge, skill and/or know-how of the counterpart researcher.

iv) Validity of Research Plan

The sharing of research activities with the counterpart research institution and the planning of research expenses shall be adequate to realize the proposed research activity.

v) Effectiveness and Continuity of Exchange

Activities characterized by the following examples shall be involved to enhance sustainable research exchange and networking.

- Nurturing of researchers through human resource exchange.
- Sustainable development of research exchange with the counterpart countries initiated by this activity.
- Enhancing the research network between collaborating countries including researchers other than the research leader and members of this activity.
- Improving the presence of science and technology in Japan and the counterpart country.

vi) Validity of Exchange Plan

The planning of exchange activities and their expenses with the counterpart research institute shall be adequate to realize the proposed research activity.

V. Project Implementation/Publications and Intellectual Property

Selected collaborative research projects in this call are expected to start in April 2022, but the schedule is subject to future adjustment due to budgetary conditions. The PIs are obliged to publish research results obtained in the program with acknowledgement of the support received.

PIs supported in this call are required to conclude a Collaborative Research Agreement listing the rights and responsibilities of each project partner, and including regulations on the handling of Intellectual Property Rights. This Agreement shall be signed among the institutions participating in the project.

Scientific and technological outcomes and any other information derived from the collaborative activities supported in this call can be announced, published or commercially exploited with the agreement of all partners in a supported project and according to their national regulations as well as international agreements concerning intellectual property rights.

As for the contract between the “Domestic Japanese research institution” and JST, it stipulates that Article 17 of the Industrial Technology Enhancement ACT (so-called Japanese version of the Bayh-Dole Act) and Article 25 of the ACT on Protection of the Creation, Protection and Exploitation of Content (tentative translation) will be applied to all intellectual property rights belonging to the Japanese institution generated as a result of this project.

VI. Reporting

VI-1. Progress report to JST

At the end of each fiscal year, the PI of the Japan-based team shall promptly submit an annual progress report on the status of research exchange, and the institution with which the PI is affiliated shall promptly submit a financial report on research expenses to JST.

VI-2. Final report to JST

After completion of the period of joint research, the Japan-based team's PI shall submit within two months a final report on the results of the joint research. The final report shall include a general summary compiled jointly by all members of the Japan-based research group.

The institution with which the PI is affiliated shall submit a financial report on research expenses within the same time frame.

VII. Contact Information



Mr. Hiroshi Kambegawa, Mr. Masayoshi Higuchi, Mr. Hideaki Kodani, Dr. Junko Katayama

Department of International Affairs

Japan Science and Technology Agency (JST)

Tel: +81(0)3-5214-7375 Fax: +81(0)3-5214-7379

E-mail: easiajrp@jst.go.jp

3) Philippines: Department of Science and Technology – Philippine Council for Industry, Energy and Emerging Technology Research and Development (DOST-PCIEERD)

The national call announcement will be published in the DOST-PCIEERD website : www.pcieerd.dost.gov.ph

I. Eligibility Requirements

(1) Any Filipino, public or private entity with proven competence may apply for funding support provided that projects fall under the specific research areas.

(2) Filipino researchers, should be connected with any public and private universities and colleges and Research and Development Institutes. The eligibility of the Philippine Principal Investigator shall be determined by DOST-PCIEERD based on his/her readiness in terms of technical, managerial, financial and marketing capabilities (if necessary). As such, the proponent shall submit documents/proof of the following: credentials/proof of capability, track record, and endorsement of his/her institution, must not have any existing accountability with DOST and its agencies particularly technical and financial reports, and must not have pending administrative or criminal case involving financial transactions. The Philippine Principle Investigator must possess at least a Master's degree in a relevant field.

II. Support

One (1) project could be supported under this call. Budget range of US\$300,00 – 310,000 per project for 3 years shall be provided by DOST-PCIEERD to support the collaborative projects.

III. Application

Interested parties should submit their proposals using the DOST-GIA proposal format through the DOST E-proposal portal, <http://dpmis.dost.gov.ph> before the Closing Date on DDMarch 2021 : Together with the proposal, DOST-PCIEERD requires submission of a formal letter of intent from the applicant and an endorsement from the

authorized head of organization. The authorized head of the organization will also be the principal signatory of their organization for the research agreement award.

IV. Evaluation of Project Proposals

Review teams (Project Managers, Technical Experts Team or Technical Panel, and DOST-PCIEERD Management Team) will evaluate each proposal based on the following criteria:

Alignment to the Call, no duplication with previous or existing researches, scientific merit, technical feasibility, soundness of methodology, financial viability (commensurate to intended output and potential impact), potential socio-economic merits, environmental impact (e.g. does not pose significant adverse to the environment or will/can improve environmental conditions), and marketability (e.g. potential adoption/use of the industry (manufacturer) and other partners). Each proposal will be given a numerical score and will be ranked accordingly. Preliminary funding recommendations will be forwarded to the DOST-PCIEERD Governing Council based on this ranking.

The DOST-PCIEERD Governing Council, based on the rankings and preliminary recommendation of the DOST-PCIEERD evaluation teams, will make final funding decisions for the DOST-PCIEERD counterpart before forwarding the proposals to the joint panel of the participating Member Organizations and the e-ASIA JRP Board Meeting for final funding decisions.

V. Reporting

Semi-annual progress reports and a detailed final report will be required. Semi-annual progress reports summarize technical progress, planned activities for next semester and summary of expenditures. The final report shall be completed within 90 calendar days after the completion of the period of performance. Required forms are downloadable from the

DOST-PCIEERD website and may be provided by the DOST-PCIEERD upon the awarding of the agreement to eligible applicants.

VI. Contact Information



Dr. Enrico C. Paringit

Executive Director

Philippine Council for Industry, Energy and Emerging Technology
Research and Development (PCIEERD)

Department of Science and Technology (DOST)

4th and 5th Levels, Science Heritage Building, DOST Compound,
Gen. Santos Ave., Bicutan, Taguig City

Tel: (+632) 8837-2071 locals 2100, 2121, 2120 and 2107

E-mail: enrico.paringit@pcieerd.dost.gov.ph

4) **Singapore: Agency for Science, Technology and Research (A*STAR)**

A*STAR participation in this e-ASIA Joint Research Program solicitation is limited to in-kind only. Only researchers working in A*STAR are eligible to be PI. No additional application materials are required to be submitted directly to A*STAR. Only the e-ASIA JRP application submitted directly to the e-ASIA Secretariat is required and will be reviewed.

Please consult the person in charge directly.

Contact Information



Ms. Claire Ng

Agency for Science, Technology and Research

1 Fusionopolis Way, #21-10 Connexis North Tower, Singapore 138632

DID +65 6826 6254 **E** claire_ng@a-star.edu.sg _

5) Thailand: Program Management Unit for Human Resources & Institutional Development, Research and Innovation (PMU-B)

I. Eligibility for Thai applicants

The applicants must be researchers and/or university professors/instructors who work in public/non-profit organization research institute or university in Thailand, and are competent in conducting a research with international partners.

PMU-B has interests in the following areas

- Material Research by Predicting Material Properties with Novel Algorithms and Big Data Approaches.
- Material Research by Designing through AI and Computational Techniques.
- Material Research by Molecular computational modeling.
- Material Research by Computational science and data-driven science.

II. Support

The total budget for the Thai researcher over a full 3-year period is up to 5,000,000 THB per project. The budget for a project may differ each year, depending on the content of activities and compliance with PMU-B financial guideline (please find details via PMU-B website: <https://www.nxpo.or.th/B/>).

III. Evaluation of Project Proposals

Proposals will be peer-reviewed, and evaluated by a committee. The final selection will be done by the international selection committee of e-ASIA.

III.I Evaluation Criteria

To be funded, proposals must be internationally competitive. It should lead to the advancement of the research field, or novel applications or increase of research capacity.

Key evaluation criteria are:

- Significance and impact of the research
- Scientific Rationale: novelty, importance and timeliness of the research
- Capabilities of the research team
- Design and feasibility of the project plan
- Partnership: including strength and clarity of collaborations and opportunities provided, quality of the project management structure proposed;

- Quality and suitability of the research environment and of the facilities;
- Ethical considerations and governance arrangements

IV. Reporting

- Every six months, the Thailand PI shall promptly submit a progress report on the status of joint research to PMU-B
- After completion of the period of joint research, the Thailand PI shall submit within three months a final report on the results of the joint research to PMU-B.

Contact Information



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