

e-ASIA Joint Research Program (the e-ASIA JRP)
Research Cooperation in the field of
“Advanced Interdisciplinary Research towards Innovation”
On the topic of
“Intelligent infrastructure for Energy”
Joint Call for Proposals to be submitted by 23 March 2017

I. General Description

I-1. Joint Funding of Multilateral Research Cooperation

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 following current Member organizations of the e-ASIA JRP hereinafter singularly referred to as a “Party” and plurally as “Parties”, have agreed to establish a new scheme for joint funding of multilateral cooperative activities. After consultations among the Parties, **“Intelligent Infrastructure for Energy”** has been selected as one of the specific research areas for the 6th call.

Participating Parties (listed in alphabetical order):

- 1) Indonesia: Ministry of Research, Technology and Higher Education (RISTEKDIKTI)
- 2) Japan: Japan Science and Technology Agency (JST)
- 3) Myanmar: Ministry of Education (MOE)
- 4) Philippines: Department of Science and Technology (DOST)
- 5) Russia: Russian Foundation for Basic Research (RFBR)
- 6) Thailand: National Science and Technology Development Agency (NSTDA)

I-2. Aim of Joint Call and Research Area

By strengthening multilateral collaboration among researchers of the countries of participating call Member organizations in the area of “Intelligent Infrastructure

for Energy”, the aim of the Joint Call is to pursue state-of-the-art technologies and solutions to issues common across the region and required from society. Infrastructure should be designed to enhance quality of life and current condition of people and the future. Important function of Infrastructure for energy is to sustain the level of civilization. It is a foundation for economic as well as social development. Southeast Asian countries where populations and economies are growing rapidly and accordingly demand for electricity in those countries is increasing rapidly now. However, those countries will eventually face aged societies when such growth stops and then demand for electricity in those countries will enter a new phase. In those sense, infrastructure for energy should be designed to be optimized for demand changes and should be useful not only for the people living there now, but also for the people to live there in the future.

The field of Advanced Interdisciplinary Research towards Innovation in the e-ASIA JRP, therefore, focuses here on research on technologies to optimize integrated electric power systems coincided with demand for electricity for decades. We will invite proposals for research on advanced ICT, social science, technologies for big data analysis, internet of things, business administration, or integration of those for:

- a) Measuring and analyzing current electric energy infrastructure, or
- b) Modeling and simulating electric energy infrastructure, or
- c) Optimizing models of electric energy infrastructure, or
- d) Implementing optimized electric energy infrastructure models in the real world, or
- e) Combining any of the above in whole or in part.

Research targets include but are not limited to:

- a) Design of optimal generation scheduling of power system grid;
- b) Design of intelligent hybrid energy storage system that can be managed and provides functions such as peak cutting, optimizing energy consumption, solving power fluctuation, and forecasting energy consumption etc.;
- c) Design of resilient and expandable distribution networks that are of appropriate scale for their respective regions;
- d) Design of decentralized and distributed networks

I-3. Invitation of Proposals and Prospective Applicants

Scientists from the countries listed above in Section I-1 are invited to identify potential research partners in at least two other countries of the e-ASIA JRP Member organizations which participate in this Call (i.e. partners from the countries listed in Section I-1, above) and to jointly prepare a collaborative research proposal in the area of Intelligent Infrastructure for Energy.

All applicants must fulfil their respective national eligibility rules for research grant application. Researchers from industry are encouraged to participate in the joint collaboration in accordance with national eligibility rules. Applicants should contact the person noted in Section VI for information on each Party's national eligibility rules.

In each application the "Lead PI" should be identified from among the named scientists engaged in "multi-country" research team. The Lead PI is responsible for submitting an application form, liaising with the Secretariat, and other interactions to facilitate application completion, receipt and review.

Researchers may participate in joint research projects by utilizing funding already received from the Parties ("re-budgeting") or "in-kind" support they may have available from other funding sources, meaning that the Party of the researcher's country will not necessarily be making available additional funds to allow scientists from their country to participate in a collaborative project.

The following is the list of acceptable type of participation by each Party. ("✓" means "accept")

| Country | New | Re-budgeting | In-kind |
|--|------------|---------------------|----------------|
| Indonesia ^(*) (RISTEKDIKTI) | ✓ | | ✓ |
| Japan (JST) | ✓ | | |
| Myanmar (MOE) | | | ✓ |
| Philippines (DOST) | ✓ | | ✓ |

| | | | |
|------------------|---|--|--|
| Russia (RFBR) | ✓ | | |
| Thailand (NSTDA) | ✓ | | |

New: New budget is requested for a project (either to support a new scope of work or to supplement an on-going project that is eligible to receive supplemental funding)

Re-budgeting: Funds from the Party may be reallocated (with the Party's permission) from one spending category to a project approved under the e-ASIA JRP, or are combined with goods, commodities, or services instead of money (i.e. material compensation)

In-kind: A principle investigator participates in a project using funds that are available from another funding source other than the Party from his/her country

(* Indonesian researchers who seek new funds from RISTEKDIKTI need to apply for "Insentif Sinas", RISTEKDIKTI's competitive fund. It is required to clearly state on "Insentif Sinas" application that the proposal is for the e-ASIA JRP project. If the proposal is selected, Indonesian researchers will receive funds from RISTEKDIKTI. If Indonesian researchers would like to participate in a project on "in-kind" basis even though the application for "Insentif Sinas" is not selected, it should be stipulated in the common application form of the e-ASIAJRP.

Myanmar researchers can participate in research projects only on an "in-kind" basis, as there will be no new or additional support available from the Myanmar MOE.

Eligible Filipino researchers seeking new funding should apply for Grants-in-Aid (GIA) from DOST through the Philippine Council for Industry, Energy Research and Development (PCIEERD). Filipino researcher applicants are advised to download all applicable PCIEERD-DOST GIA Forms from the PCIEERD website or the [e-Proposals Website](#) and completely accomplish these forms. The PCIEERD-DOST also requires submission of a formal letter of intent from the applicant with a statement that the proposal is for e-ASIA JRP and an

endorsement from the authorized head of their organization.

"In-kind" support may come from public sources, foundations or non-profit organization only.

It is advised for researchers who will participate in research project on an "in-kind" basis to notify the funding agency (i.e. his/her funding source) that he/she will reallocate their budget for the e-ASIA project, and to obtain a "Letter of Consent" from funding agencies.

Conditions regarding the number of countries which can participate on an "in-kind" basis in one research project will vary by country.

In principle, at least one country should participate with "new" or "re-budgeting" fund meaning that it is not acceptable as an e-ASIA project if all the applicants intend to participate in research project on an "in-kind" basis.

I-4. Financial Support

The Parties plan to support cooperative activities including sending and inviting researchers to the counterpart countries. In principle, each Party will support expenses for its own country's researchers.

II. Support

The duration of a cooperative research project will be three years (36 months), in total, from the start date.

Details of conditions of support will vary by country. Applicants shall refer to the Appendix for each Party's conditions.

<Support Overview>

- Budget for Cooperative Research Projects
- Details of Support
- Funded Expenses

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.

- Contract between Applicant and Each Party
- Contract among Researchers

III. Application

Proposals must be submitted by e-mail to the e-ASIA JRP Secretariat.
Applications shall be written in English.

In addition to the common application form, each Party may require additional documents. Those requirements are in the Appendix.

The proposal shall include:

- a) Project description including how 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 on other comparable activities worldwide.

III -1. Application Forms

Researchers should prepare the following application (proposal) forms in English ("E").

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

- Form 1E Application outline (title of cooperative research project, names of PIs, cooperative research period)
- Form 2E Summary of the Project
- Form 3E Information on the PIs (their CVs*)
- Form 4E List of individuals committed to the cooperative research project in each country
- Form 5E Description of the cooperative research project including the points stated above.
- Form 6E Research Networking Plan
- Form 7E Budget plan for the project
- Form 8E Research Infrastructures and funds from other sources
- Form 1J/2J Japanese applicants only

** 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 country/member organization, especially for research activities related to human and animal subjects. Applicants shall refer to the Appendix for each Party's ethical requirement.

III-2. Preparation of Application Forms

Applicants should fill in the particulars in all the application forms listed in III-1 above.

III-3. Submission of Application Forms by Lead PI

Lead PI should submit proposals to the e-ASIA JRP Secretariat at the e-mail address (easia_secretariat@jst.go.jp) by 17:00 (Thai Standard Time, UTC+7) on **23 March 2017**.



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

Applicants should refer to the Appendix for his/her Party's requirement.

Application forms sent by any method other than e-mail, such as post, fax or telex will be rejected. The e-ASIA JRP Secretariat does not assume any responsibility for delay or error in e-mail delivery.

III-4. Receipt of Application Forms by the e-ASIA JRP Secretariat

Following the submission of applications, the e-ASIA JRP Secretariat will send a confirmation email to each applicant who has submitted an application form to confirm receipt of his/her proposal. In case an applicant does not receive a confirmation e-mail from the e-ASIA JRP Secretariat within 1 week, they should contact the e-ASIA JRP Secretariat at the address above.

IV. Evaluation of Project Proposals

IV-1. Evaluation Procedure

Each Party evaluates all proposals submitted by their local researchers from their respective country. Based on the results of the evaluation, a final decision on which projects to be selected for funding will be made at the Board Meeting of the e-ASIA JRP.

IV-2. Evaluation Criteria

The following general evaluation criteria will apply to each application:

- 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 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.

Evaluation criteria are not limited to the above three. Each Party who participates in this Call has its own additional criteria. These criteria may be applied to each application. Therefore, researchers should familiarize themselves with the evaluation criteria in their respective country they are applying from.

IV-3. Announcement of Decision

Applicants will be notified of the final decision by July 2017 regarding which projects will be funded.

V. Responsibilities of PIs After Proposals are Approved

After the proposal has been approved, PIs and their affiliated institutions will observe Parties' own country guidelines and the following when carrying out the

cooperative research and utilising funding.

It is also encouraged that the project proactively disseminates its achievements to the public and releases result in the Progress and Final reports as much as possible.

V-1. Progress Report

V-1.1 Progress Report to the Board and Scientific Advisory Council

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 Secretariat on the status of joint research. The report will be reviewed by the Board and Scientific Advisory Council

V-1.2 Progress Report to each Party

All researchers must follow the own Parties' rules as in the Appendix.

V-2. Final Report

V-2.1 Final Report to the Board and Scientific Advisory Council

After completion of the period of joint research, the lead PI shall develop and submit within one month an integrated final report to the Secretariat on the results of the joint research. The report will be reviewed by the Board and Scientific Advisory Council

V-2.2 Final Report to each Party

All researchers must follow their own Parties' rules as in the Appendix.

V-3. Others

It is strongly recommended that a Collaborative Research Agreement

(hereinafter referred to as “CRA”) among PIs/PI’s research institutions should be executed to assure optimal understanding and coordination among the collaborating scientists working on each project before project starts. CRA should 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 bio-resources. Some Parties require to have a CRA. Applicants shall refer to the Appendix for each Party’s requirement.

VI. Contact information

Applicants should contact the following for information on each Party’s national eligibility rules or support conditions:

- 1) Indonesia: Ministry of Research, Technology and Higher Education (RISTEKDIKTI)



Ms. Tiomega Gulton
Deputy Director for Int'l S&T Network
State Ministry of Research and Technology
Tel: +62 8129383743 E-mail: mega@ristek.go.id

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



Dr. Takashi Kawabe, Ms. Izumi Tsune and Ms. Shoko Hirakawa
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) Myanmar: Ministry of Education (MOE)



Mr. Win Khaing Moe

Acting Director General

Myanmar Scientific and Technological Research Department

Ministry of Education, Myanmar

Tel: +95-1-663024 / +95-1-664930 / +95-9-5005941 Fax: +95-1-668033

E-mail: winkmoe@gmail.com

Dr. Aye Mon Win

E-mail: frd17309@gmail.com

Department in charge

E-mail: aseanmost@gmail.com

4) Philippines: Department of Science and Technology (DOST)



Mr. Nonilo A. Peña

Chief

Energy Utilization Systems Technology Development Division

Department of Science and Technology (DOST)

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

Tel: +632 837-2071 local 7006; +632 8372935

E-mail: nilo_pciemd@yahoo.com

5) Russia: Russian Foundation for Basic Research (RFBR)



RUSSIAN
FOUNDATION
FOR BASIC
RESEARCH

Mr. Yaroslav Sorokotyaga
Division Director
International Relations Department
Russian Foundation for Basic Research
Tel: +7 499 941 0196
E-mail: ysorokot@rbr.ru

6) Thailand: National Science and Technology Development Agency (NSTDA)



Assoc. Prof. Dr. Chanwit Tribuddharat
Vice President
International Collaboration
National Science and Technology Development Agency
Tel: +66 2117 6922
E-mail: chanwit@nstda.or.th

Applicants should contact the following for general inquiries:



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National Science and Technology Development Agency (NSTDA)
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Tel.: +66-2-564-7713 H/P: +66-61-421-0316
E-mail: easia_secretariat@jst.go.jp

**e-ASIA Joint Research Program (the e-ASIA JRP)
Research Cooperation in the field of
“Advanced Interdisciplinary Research towards Innovation”
On the topic of
“Intelligent Infrastructure for Energy”
Joint Call for Proposals to be submitted by 23 March 2017**

Information about each Party (alphabetical order by country)

| | |
|--|----|
| 1) <u>Indonesia</u> : Ministry of Research, Technology and Higher Education (RISTEKDIKTI)..... | 15 |
| 2) <u>Japan</u> : Japan Science and Technology Agency (JST) | 16 |
| 3) <u>Myanmar</u> : Ministry of Education (MOE) | 22 |
| 4) <u>The Philippines</u> : Department of Science and Technology (DOST) | 23 |
| 5) <u>Russia</u> : Russian Foundation for Basic Research (RFBR) | 27 |
| 6) <u>Thailand</u> : National Science and Technology Development Agency (NSTDA) | 29 |

**1) Indonesia: Ministry of Research, Technology and Higher Education
(RISTEKDIKTI)**

Please consult the person in charge directly.

Contact Information



Ms. Tiomega Gulton

Deputy Director for Int'l S&T Network

State Ministry of Research and Technology

Tel: +62 8129383743 E-mail: mega@ristek.go.id

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

Please be advised that unless the applicant completes a research ethics program, his or her application will be deemed ineligible and rejected.

For project proposals which Japanese applicants intend to be funded by JST, it is recommended that at least half of the countries participating in a project fund (either additionally or newly) their own researchers in that proposal

I. Eligibility for Japan-based applicants

- The Japan-based Principal Investigator must be personally affiliated with a domestic research institution and conduct research there. Domestic research institutions on the Japanese side refer 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 specified by the Ministry of Education, Culture, Sports, Science and Technology in Japan.

- Any individual who satisfies any of the following conditions is also eligible to apply as Japan-based Principal Investigator.

- i) Researcher holding citizenship other than Japanese who belongs to a Japanese domestic research institution.
- ii) Researcher who is not currently affiliated with a particular research institution, but who will be affiliated with a Japanese domestic research institution and able to conduct research there if selected as Japan-based Principal Investigator.
- iii) Japanese researchers currently residing overseas who will be affiliated with a Japanese domestic research institution and able to conduct research there if selected as Japan-based Principal Investigator.

- Japan-based Principal Investigator must be able to take responsibility for the duties of the entire project for the full duration of the joint research project.

- Japan-based researchers from industry are eligible to participate in the joint research project in the Japan-based Team.

II. Support

II-1. Budget for Cooperative Research Projects

The budget for a project may differ each year, depending on the content of activities, but the total budget for the Japanese researcher over a full 3-year period (i.e. 36 months) should be 27 million Japanese Yen as direct expenses. 30% of direct expenses will be provided as overhead expenses. According to the budgetary limitations for this program, the amounts will be adjusted each year.

II-2. Details of Support

This program is designed to support additional expenses related to cooperation by a Japanese researcher with their counterparts, such as expenses for travel and/or conducting seminars/symposia. A precondition for applying to this Joint Call is that the main research infrastructure is already ensured by each research group. The duration of a co-operative research project shall be no longer than three (3) years (thirty-six (36) months) in total from the start date.

II-3. Funded expenses

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.

1. Direct Expenses:

- i) Travel expenses: In principle, travel expenses should be based on the rules of the institution to which the Principal Investigator (hereinafter referred to as the PI) belongs.
- ii) Expenses for holding symposia, seminars and meetings
- iii) Expenses for facilities, equipment and consumables
- iv) Expenses for personnel: Stipend or salary for a PhD student, or salary for a post-doctoral fellow.
- v) Others: Expenses for creating software, renting or leasing equipment, transporting equipment, etc.

2. Overhead expenses shall be 30% of direct expenses.

3. Expenses not covered/funded by the program:

- i) Expenses relating to the acquisition of or rental of real estate or constructing buildings or other facilities.
- ii) Expenses related to the procurement of major equipment.
- iii) Expenses related to dealing with accidents or disasters occurring during the co-operative research periods.
- iv) Expenses unrelated to the implementation of this co-operative research project.

II-4. Contract between Applicant and JST

Support will be implemented according to a contract for commissioned research entered into between JST and a university, research institute, or similar organisation (hereinafter referred to as the “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.

As for the contract between the Japanese institution and JST, it stipulates that Article 19 of the Industrial Technology Enhancement ACT (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, and that these can be the properties of the institution with which the PI is affiliated.

II-5. Contract among Researchers

A contract for cooperative research MUST be entered into among institutions with which collaborating researchers are affiliated for implementing actual research collaboration. The contract for cooperative research shall include conclusions of discussions among Parties which are entitled to intellectual property arising as a result of research collaboration, and Institutions concerned, on issues regarding treatment of research information brought by researchers involved for the implementation of research collaboration, of research achievements as a result of research collaboration and of intellectual properties among the concerned parties. The agreement so concluded shall be reported to

the Parties.

III. Application

Please note that Japanese applicants are required to complete both e-mail submission to the e-ASIA Secretariat and “e-Rad” submission. Applications which do not include both a submission to the e-ASIA JRP Secretariat by e-mail and through e-Rad will be considered ineligible.

III-1. Application Forms

Only for Japanese applicants, Forms 1J and 2J should be prepared in Japanese (“J”) in addition to the common application form in English.

III-2 Submission of Application Forms by Lead PI

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

Japanese applicants also must submit a project title, a summary of the project, and detailed budget information in Japanese with their application forms through the online application system, “e-Rad” (<http://www.e-rad.go.jp/index.html>) by 19:00 (Japan Standard Time) on **23 March 2017**.

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 Parties regarding funding of the selected proposals.

IV-1. Evaluation Criteria

The following general evaluation criteria 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 Research Leaders

The research leaders in both countries shall have the insight or experience (or potential in the case of younger researchers) necessary for pursuing the activity and the ability to manage the cooperation and reach the project goals during this program's period of support.

iii) Effectiveness and Synergy of Co-operative 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 institute 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 country initiated by this activity.
- Enhancing the research network between both 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. Responsibilities of PIs After Proposals are Approved

V-1. Progress Report to JST

At the end of each fiscal year, the Japanese PI 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.

V-2. Final Report to JST

After completion of the period of joint research, the Japanese PI shall submit within one month a final report on the results of the joint research. The final report shall include a general summary (maximum five A4 pages) compiled jointly by all members of the Japanese research group. If papers describing results of the research exchange are presented to academic journals, societies etc., which is expected by the Parties, copies of such papers should be attached to the final report.

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

VI. Contact Information



Dr. Takashi Kawabe, Ms. Izumi Tsune and Ms. Shoko Hirakawa
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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) Myanmar: Ministry of Education (MOE)

Please consult the person in charge directly.

Contact Information



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Dr. Aye Mon Win

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Department in charge

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4) The Philippines: Department of Science and Technology (DOST)

The Department of Science and Technology (DOST) thru the Philippine Council for Industry, Energy and Emerging Technology Research and Development (PCIEERD) is ready to accept research and development (R&D) proposals for the e-ASIA Joint Research Program (e-ASIA JRP). The R&D proposals should be directed towards harnessing the potential of technologies, expand technology development and innovation in the area of **Intelligent infrastructure for Energy**.

This funding opportunity is for Filipino researchers to apply for S&T collaboration on their R&D initiatives with researchers from the countries represented by the call participating Member Organizations of the e-ASIA JRP.

I. Eligibility for Filipino-based applicants

Any Filipino, public or private, entity with proven competence may apply for Grants-In-Aid (GIA) support of DOST and its grant-giving units, provided that projects are for the benefit of Filipinos. Preference will be given to public and private universities and colleges, Research and Development Institutes (RDIs), R&D Consortia, non-profit laboratories, other public or private non-profit S&T institutions located in the Philippines. Non-profit S&T organizations are those, which: (1) are operated primarily for scientific, educational, service, or similar purposes in the public interest; (2) are not organized primarily for profit; and (3) use its net proceeds to maintain, improve, and/or expand its operations. Non-profit organizations engaged in lobbying activities are not eligible to apply.

II. Support

II-1. Budget for Cooperative Research Projects

The total estimated funding for this competitive opportunity is approximately PHP15,000,000. The PCIEERD-DOST anticipates R&D awards ranging from PHP1,000,000 to PHP3,000,000 per research agreements resulting from this announcement within a maximum period of 3 years.

PCIEERD-DOST anticipates up to approximately 5 research agreements under this announcement, subject to the availability of funds and quality of proposals. In addition, the PCIEERD-DOST reserves the right to make additional project grants under this announcement, consistent with the PCIEERD and DOST policies, if additional funding becomes available after the original selections.

II-2. Details of Support

The funding for selected projects will be in the form of a research agreement or Memorandum of Agreement (MOA) under the DOST/PCIEERD Grants-In-Aid (GIA) Program. Research agreements permit substantial involvement of the PCIEERD designated Technical Monitor and the selected applicants in the performance of the work supported. Although PCIEERD-DOST will negotiate precise terms and conditions relating to substantial involvement as part of the award process, the anticipated substantial Government involvement for this project will be:

- Close monitoring of the successful applicants' performance to verify the results reported by the applicant; Collaboration during performance of the scope of work;
- Review of the substantive terms of proposed contracts and review of competitive procurement procedures (PCIEERD-DOST will not select contractors);
- Approving qualifications of key program/project personnel (PCIEERD-DOST will not select employees or contractors employed by the award recipient);
- Review and comment on reports prepared under the research agreement.

The Grants-In-Aid award shall be governed by the [DOST GIA Guidelines](#).

II-3. Funded expenses

The PCIEERD-DOST reserves the right to partially fund proposals by funding discrete portions or phases of proposed projects. If PCIEERD-DOST decides to partially fund a proposal, it will do so in a manner that does not prejudice any applicants or affect the basis upon which the proposal or portion thereof, was evaluated and selected for award, and therefore maintains the integrity of the selection process.

II-4. Contract between Applicant and DOST/PCIEERD

The authorized head of the applicant's organization will be the principal signatory for the research agreement award. A Memorandum of Agreement (MOA) for cooperative research will be entered into among institutions with which collaborating researchers are affiliated for implementing actual research collaboration. The MOA for cooperative research shall include agreements among Parties that includes project deliverables, data sharing and intellectual property rights arising as a result of research collaboration among the concerned parties.

II-5. Contract among Researchers

III. Application

III-1. Application Forms

Applicants are advised to download all applicable [PCIEERD-DOST GIA Forms](#) from the [PCIEERD website](#) or the [e-Proposals](#) submission facility and completely accomplish these forms. Aside from the Frequently Asked Questions (FAQs) in the [e-Proposals](#) website, Guidelines for Uploading Files can be viewed once the applicant register and log on the system. Instructions for the e-Proposals submission are available upon download of these forms from the [PCIEERD website](#).

Filipino applicants are required to submit to both e-ASIA Secretariat by email and PCIEERD's "e-Proposals" submission facility using their respective required forms. Otherwise, their proposal will not be considered for funding.

III-2 Submission of Application Forms by Applicants

Filipino applicants are required to submit their proposals through the PCIEERD-DOST [e-Proposals](#) submission facility before the **Closing Date on 23 March 2017**. Applicants will receive automatic reply through email confirming receipt of their proposals. Proposals received after the closing date will not be

considered. A notification will be issued to eligible entities whose proposals have been evaluated and preliminarily recommended for award.

IV. Responsibilities of Principal Investigators (PIs) After Proposals are Approved

IV-1. Reports to PCIEERD-DOST

Quarterly progress reports and a detailed final report will be required. Quarterly reports summarizing technical progress, planned activities for next quarter and summary of expenditures are required. The final report shall be completed within 90 calendar days of the completion of the period of performance. Required forms are downloadable from the [PCIEERD website](#) and will be provided by PCIEERD upon the awarding of the agreement to eligible applicants.

V. Contact Information



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Chief

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5) Russia: Russian Foundation for Basic Research (RFBR)

National call announcement is published on RFBR website at:

http://www.rfbr.ru/rffi/ru/contest/n_812/o_1965382

I. Eligibility for Russian applicants

Who can apply?

1. Any Russian researcher
2. Foreign researcher working in Russian research institution, holding Russian Federation residence permit and accredited in tax authority and superannuation fund.

Despite Russian researchers can present themselves in a project proposal submitted to e-Asia call secretariat as a multiple private investigators, they will be treated by RFBR as one team only. In case the project will be among selected for funding, RFBR grant award will be managed within one project through only one Russian legal entity. Therefore Russian researchers should agree beforehand through which legal institution they will manage grant award and appoint a person to be responsible for managing grant award and acting on behalf of team in negotiations with RFBR. The total number of Russian researchers in a project should not exceed 10 people.

II. Support

Within each selected international consortium, funding of the participating researchers is provided by their respective national funding organization in accordance with their standard award terms and conditions. RFBR provides funding only for the Russian researches. The funding within this call will cover a three year period 2018-2020.

The participants of research projects should aim towards equal collaboration, both in terms of workload and funds requested.

Please use link below for detailed eligible costs list:

<http://www.rfbr.ru/rffi/getimage/?objectId=1896479>

III. Application

Russian applicants should submit a national proposals to RFBR through KIAS system (<http://kias.rfbr.ru>) before 17.00 (Moscow time) 14 March 2017 and deliver a hard copy of proposal not later than 28 March 2017.

IV. Evaluation of Project Proposals

All proposals will be ad hoc evaluated by RFBR experts according to RFBR internal rules and procedures. After ad hoc evaluation an Independent Committees consisting of international experts will review all proposals. Based on the results of the evaluation, a common decision will be decided jointly among Parties regarding funding of the selected proposals.

V. Contact Information



RUSSIAN
FOUNDATION
FOR BASIC
RESEARCH

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6) Thailand: National Science and Technology Development Agency (NSTDA)

I. Eligibility for Thai applicants

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

II. Support

The total budget for the Thai researcher over a full 3-year period is up to 3,000,000 THB. The budget for a project may differ each year, depending on the content of activities.

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
- 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

Contact Information



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