

Funding opportunity template

Funding opportunity title

11 th e-ASIA Joint Research Program (the e-ASIA JRP) Research Cooperation in the fields of 'Alternative Energy' and 'Advanced Interdisciplinary Research towards Innovation'

Key information

Type of funding	Grant
Funding Agency	DOST-Philippine Council for Industry, Energy and Emerging Technology (DOST-PCIEERD)
Co-funder(s) <i>External agencies</i>	Japan: Japan Science and Technology Agency (JST) Myanmar: Ministry of Science and Technology (MOST) Singapore: Agency for Science, Technology and Research (A*STAR) Thailand: Program Management Unit for Human Resources & Institutional Development, Research and Innovation (PMU-B) & National Research Council of Thailand (NRCT)
Add link to start the application	DOST Project Management Information System (DPMIS): http://dpmis.dost.gov.ph

Timeline

Event	Date	Time
Opening date	December 15, 2021	8:00 A.M.
Closing date	April 01, 2022	5:00 P.M.
Evaluation Period	April – July 2022	
Start of projects	January – March 2023	

Overview

The Department of Science and Technology Philippine Council for Industry, Energy and Emerging Technology Research and Development (DOST-PCIEERD) is ready to accept research and development (R&D)/Science and Technology (S&T) proposals aligned with the 11th e-ASIA Joint Research Program (the e-ASIA JRP) Research Cooperation in the fields of 'Alternative Energy' and "Advanced Interdisciplinary Research towards Innovation"

Opportunity summary

This funding opportunity encourages S&T collaboration in applied research among Higher Education Institutes (HEIs), government Research and Development Institutes (RDIs), and non-profit S&T networks and organizations seeking funding for their R&D/S&T initiatives. Alternative Energy and Advanced Interdisciplinary Research towards Innovation are the priority areas of the call specifically the following topics:

Alternative Energy: (1) Urban and biological wastes to energy, (2) useful biochemicals, and biofuels, (3) New fuel cell science and technologies and (4) Alternative energies in the tropics and sub-tropics.

Advanced Interdisciplinary Research towards Innovation: Greener Digital Cities

Kindly visit the links below for the Call Guidelines posted in the e-ASIA website for your reference.

Alternative Energy: https://www.the-easia.org/jrp/pdf/cfp11/guideline_11th_alternative_energy.pdf

Advanced Interdisciplinary Research towards Innovation: https://www.the-easia.org/jrp/pdf/cfp11/guideline_11th_advanced_interdisciplinary_research.pdf

Who can apply

- (1) Any Filipino connected with public and private universities and colleges and Research and Development Institutes, with proven competence may apply for funding support provided that projects fall under the specific research areas.
- (2) 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 (e.g., ongoing and previous project/s implemented in the past), 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 Principal Investigator must possess at least a Master's degree in a relevant field.

What we're looking for

Proposals to be submitted and or funded under this announcement must demonstrate the advancement of Science and Technology, with respect to the 11th e-ASIA Joint Research Program (the e-ASIA JRP) Research Cooperation under the fields of Alternative Energy and Advanced Interdisciplinary Research towards Innovation. DOST-PCIEERD will fund a total of six (6) proposals for this Call (3 for Alternative Energy and 3 for Advanced Interdisciplinary Research) with a maximum budget of Php 15,000,000 million for three years (Php 5 million per year) for each project.

It is recommended that projects take into account the current context of the COVID-19 pandemic and its impact on mobility and develop plans and contingencies accordingly.

Eligible costs

100% of the project cost shall be covered under the Grant while the applicant's organization shall provide at least 15% counterpart funding, in cash/in kind, except for projects involving public good. Only eligible and allowable costs may be used for counterpart fund and/or in-kind contribution (ex. utility costs, office space rental, etc.), as determined by DOST-PCIEERD. The proposal must describe how the applicant will provide the counterpart fund/in-kind contribution and the role that the Grant will play in the overall project.

The requested budget shall be itemized following the DOST Form 4-Project Line-Item Budget. The grant may cover partial or full cost of the project, both direct and indirect costs which shall include personnel services, maintenance and other operating expenses, and capital outlay that are integral part of the project. All expenditure items shall be in accordance with the Unified Account Code Structure (UACS) and relevant provisions as shown in Section IX, B. Line Item Budget Preparation of AO 011 series of 2020 Revised Guidelines for the [Grants-in-aid Program of the Department of Science and Technology and its Agencies](#).

Capital or infrastructure expenditure is not an eligible cost under the Grant as well as fees and/or stipends associated with Master and PhD studentships.

Budget restrictions may apply in accordance with issuances of the national government such as, but not limited to those pertaining to the existing Health situation prohibiting foreign travel and attendance to trainings

How to apply

Applications should be submitted through the DOST Project Management Information system (<http://dpmis.dost.gov.ph>) from **8:00 A.M. of December 15, 2021 to 5:00 P.M. of April 01, 2022**.

It will not be possible to submit an application to the Call after the time mentioned above. Proposals submitted after the deadline will not be considered. Applicants are encouraged to leave enough time for proposal inputting in the DPMIS before this date.

When submitting your application, please follow these steps:

1. Register and create an account in the DPMIS
2. Log in to your DPMIS account
2. Select Type of Proposal: 11th e-ASIA Joint Research Program (the e-ASIA JRP)
3. Select Classification: New Proposal

The following will automatically be disapproved:

- 1) **Proposals from organizations that are not qualified to submit during this Call;**
- 2) **Proposals outside the priority areas of the Council; and**
- 3) **Proposals submitted to any other call route/Council/s.**
- 4) **Proposals not submitted through DPMIS.**

Documents Required

As a summary, your application should include the following documents.

- 1) DOST Proposal Form
- 2) Supplementary Files
 - Workplan
 - Endorsement of Head of Agency
 - Gender and Development (GAD) Score Sheet
 - Letter of Intent/Letter of Cooperation

No additional attachments are permitted.

Document Summaries

1) DOST Proposal Format

Applicants shall follow the DOST GIA Proposal Format (R&D or non-R&D, whichever is applicable) which will be accomplished in the e-Proposal portal at dpmis.dost.gov.ph. Instructions for submission are also available in this site.

Example of a DOST Proposal Format: R&D

I. Title - the identification of the Program and the component projects.

- a. **Project**- refers to the basic unit in the investigation of specific S&T problem/s with predetermined objective/s to be accomplished within a specific time frame.
- b. **Project Leader**- refers to a project's principal researcher/implementer.
- c. **Project Duration**- refers to the grant period or timeframe that covers the approved start and completion dates of the project, and the number of months the project will

be implemented.

- d. **Implementing Agency-** the primary organization involved in the execution of a program/project which can be a public or private entity

II. Cooperating Agency/ies

Refers to the agency/ies that support/s the project by participating in its implementation as collaborator, co-grantor, committed adopter of resulting technology, or potential investor in technology development or through other similar means.

III. Site/s of Implementation

Location/s where the project will be conducted. Indicate the barangay, municipality, district, province, region, and country.

IV. Type of Research

Indicates whether the project is basic or applied.

- a. **Basic research-** is an experimental or theoretical work undertaken primarily to acquire new knowledge of the underlying foundations of phenomena and observable facts, without any particular or specific application or use in view.
- b. **Applied research-** is an investigation undertaken in order to utilize data/information gathered from fundamental/basic researches or to acquire new knowledge directed primarily towards a specific practical aim or objective with direct benefit to society.

Sustainable Development Goal (SDG) Addressed- indicates which among the 17 SDGs adopted by the United Nations Members States are addressed by the project

VI. **Executive Summary-** briefly discusses what the whole proposal is about

VII. **Introduction-** a formally written declaration of the project and its idea and context to explain the goals and objectives to be reached and other relevant information that explains the need for the project and aims to describe the amount of work planned for implementation; refers to a simple explanation or depiction of the project that can be used as communication material.

VII.1. Rationale- brief analysis of the problems identified related to the project

Significance- refers to the alignment to national S&T priorities, strategic relevance to national development and sensitivity to Philippine political context, culture, tradition and gender and development.

VII.2. Scientific Basis- other scientific findings, conclusions or assumptions used as justification for the research

Theoretical Framework- the structure that summarizes concepts and theories that serve as basis for the data analysis and interpretation of the research data.

VII.3. Objectives- statements of the general and specific purposes to address the problem areas of the project.

VIII. Review of Literature

Refers to the following: (a) related researches that have been conducted, state-of-the-art or current technologies from which the project will take off; (b) scientific/technical merit; (c) results of related research conducted by the same Project Leader, if any; (d) Prior Art Search, and; (e) other relevant materials.

IX. Methodology

Discuss here the following: (a) variables or parameters to be measured and evaluated or analyzed; (b) treatments to be used and their layout; (c) experimental procedures and design; (d) statistical analysis; (e) evaluation method and observations to be made, strategies for implementation (Conceptual/Analytical framework).

X. Technology Roadmap (if applicable)

A visual document that communicates the plan for technology. It is a flexible planning technique to support strategic and long-range planning by matching short- and long-term goals to specific technology solutions.

XI. Expected Outputs (6Ps)

Deliverables of the project based on the 6Ps metrics (Publication, Patent/Intellectual Property, Product, People Service, Place and Partnership, and Policy).

- a. *Publication*- published aspect of the research, or the whole of it, in a scientific journal or conference proceeding for peer review, or in a popular form.
- b. *Patent/Intellectual Property*- proprietary invention or scientific process for potential future profit.
- c. *Product*- invention with a potential for commercialization.
- d. *People Service*- people or groups of people, who receive technical knowledge and training.
- e. *Place and Partnership*- linkage forged because of the study.
- f. *Policy*- science-based policy crafted and adopted by the government or academe as a result of the study.

XII. Potential Outcome

Refers to the result that the proponent hopes to deliver three (3) years after the successful completion of the project.

XIII. Potential Impacts

- a. *Social Impact*- refers to the effect or influence of the project to the reinforcement of social ties and building of local communities.
- b. *Economic Impact*- refers to the effect or influence of the project to the commercialization of its products and services, improvement of the competitiveness of the private sector, and local, regional, and national economic development.

XIV. Target Beneficiaries

Refers to groups/persons who will be positively affected by the conduct of the project.

XV. Sustainability plan

Refers to the continuity of the project or how it shall be operated amidst financial, social, and environmental risks.

XVI. Gender and Development (GAD) Score

Refers to the result of accomplishing GAD checklists for project monitoring and evaluation/project management and implementation to highlight the contribution of the project in the achievement of the objectives of Republic Act 7192, "Women in Development and Nation Building Act," interpreted as gender-responsive, gender-sensitive, has promising GAD concepts, or GAD is invisible.

XVII. Limitations of the Project

Refers to restrictions or constraints in the conduct of the project.

XVIII. **Risk**- refers to an uncertain event or condition that its occurrence has a negative effect on the project.

Assumption- refers to an event or circumstance that its occurrence will lead to the success of the project.

XIX. Literature Cited

An alphabetical list of reference materials (books, journals and others) reviewed. Use standard system for citation.

XX. Personnel Requirement

Details on the position of personnel to be involved in the project, percent time devoted to the project, and responsibilities.

XXI. Budget By Implementing Agency

Personnel services (PS), maintenance and other operating expenses (MOOE), and equipment outlay (EO) requirement of the project by implementing agency for Year 1 and for the whole duration of the project. Please refer to the DOST-GIA Guidelines for the details (Section IX.B of DOST Administrative Order (A.O.) 011, s. 2020).

- a. **PS**- total requirement for wages, salaries, honoraria, additional hire and other personnel benefits.
- b. **MOOE**- total requirement for supplies and materials, travel expenses, communication, and other services.
- c. **EO**- total requirement for facilities and equipment needed by the Program.

XXII. Other Ongoing Projects Being Handled By the Project Leader

List of ongoing projects being handled by the Project Leader funded by the DOST-GIA Program and other sources, and the accompanying responsibilities relevant to the project.

2) Supplementary Files

These include related information on the proposed program/project like, resumes or curriculum vitae, support letters from relevant agencies/organizations, market supply/demand projections, etc. Below are explanations of required information, which should be attached in the proposal. These will also be submitted through the e-Proposals portal.

- i. **Workplan**
Describe specific activities and/or methods to be undertaken and estimated timeline for each task.
- ii. **Endorsement of the Head of Agency**
- iii. **Gender and Development (GAD) GAD Score Sheet**
- iv. **Letter of Intent/Letter of Cooperation** from interested adopters of the project results (specifying role/s and monetary/in-kind contribution in the project)

How we will assess your application

A. Review and Selection Process

A.1. e-Asia JRP 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.

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

All Proposals must be submitted from the Lead PI by e-mail to the e-ASIA JRP Secretariat at easia_secretariat@jst.go.jp. 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.

A.2. DOST-PCIEERD Evaluation process

Proposals shall be evaluated according to a set of criteria for each level of evaluation: Division Level, PCIEERD Management Team (PMT) level, Technical Panel (TP) level, Governing Council (GC) level, and the DOST Executive Committee (EXECOM) level (for

proposals for DOST GIA funding) as shown below. Applicants should directly and explicitly address these criteria as part of their proposal submission.

Criteria for PCIEERD-GIA Program funding:

1. Scientific Merit

Contribution to the advancement of knowledge and understanding in the field of Science & Technology.

The research is at par with the existing studies; cutting edge; world class research.

Sound scientific basis to generate new knowledge/innovative technology.

Will contribute to the enhancement/development of skills and expertise in the field/discipline.

2. Methodology

The procedures are clear, well-organized, well-described and based on a sound rationale.

The proposed methods and results are valid, replicable and reliable.

The proposed activities are reasonable to attain its expected outputs.

3. Financial Soundness

The proposed budget is reasonable in the conduct of the research. Expense items sought are appropriate and necessary.

There are adequate counterpart resources available (e.g. expertise, facilities) to carry out the research.

4. Timeframe

The duration of the project and its activities are reasonable.

The workplan is doable in a given timeframe.

The risk management plan was established to avoid delays in the project implementation.

5. Environmental Impact

The project will not pose a significant adverse effect on the environment and/or public health.

Will improve environmental conditions using environment-friendly /clean process.

6. Other Issues

Compliance to regulatory requirements necessary in the conduct of research.

Ethical issues (i.e. do not harm, informed consent, voluntary participation, privacy, anonymity, confidentiality) are properly addressed.

7. Sustainability

The likelihood that institutional, financial, and other resources are sufficient to sustain the project's outcome in a sustainable way. Also, there are potential partners and techno-takers to be involved in the project.

- Research utilization plan under methodology
- Sustainability or business plan particularly those with market potential
- Letter of undertaking / commitment specifying roles/responsibilities and counterpart funding from potential partners, target users or techno-takers

8. Socio-economic Impact

Potential of project to create/provide/generate employment.

Potential to Increase income and productivity
Ability to address any current/pressing national problem, among others, are specified and quantified

9. Marketability

Determine current and potential market demand
Has identified specific/potential end-users
Explore/Create new markets for the resulting product/process/service are specified
Advantage over existing products/services in the market
Potential adoption/use of the industry (manufacturer) and other partners

10. Plans for Research/Project Results Utilization

Plans on how R&D results will be used by the potential end user/s or adopters are defined
Addresses strategic needs/value
Sustainability plan for the resources generated and capacity built from the project

Additional Criteria for DOST-GIA Program Funding:

1. Relevance

Aligned to national S&T priorities, strategic relevance to national development and sensitivity to Philippine political context, culture, tradition and gender and development.

2. Readiness and Chance of Success

Sound scientific basis to generate new knowledge or apply existing knowledge in an innovative manner.

3. Benefit-to-Cost

Provides a systematic approach to estimating the strengths and weaknesses of alternatives used to determine options which provide the best approach to achieving benefits while preserving savings (for example, in transactions, activities, and functional requirements).

4. Partnership and Collaboration

Promotes partnership and collaboration supported by a letter of undertaking / commitment specifying roles/ responsibilities and counterpart funding from potential partners, target users or techno-takers; Complements completed or existing initiatives related to the proposal

5. Potential Impact

Potential impact of the project in terms of socio-economic, academic, policy, environment and health.

- Socio-economic potential
- Environmental impact assessment, if necessary
- Clearance from the institution's ethics review board/ committee for research involving human and animal subjects, if applicable.
- Clearance from the DOST Biosafety Committee for research done involving the use of GMOs under contained use.

B. Other Factors

The Approving Authorities, the GC and/or EXECOM, based on the rankings and preliminary recommendation of the PMT, will make final funding decisions. The Approving Authorities may also consider programmatic priorities and geographic diversity of grants.

Contact

DOST-PCIEERD Project Managers are available to provide appropriate assistance to potential applicants interested in competing for this Call for Proposals. This may include assistance to potential applicants in determining eligibility of the applicant or the applicant's proposed project for funding, questions about administrative issues relating to the submission of a proposal, and clarifications on the announcement.

Contacts:

Energy and Utilities Systems Sectors:

Engr. Nonilo A. Peña, napena@pcieerd.dost.gov.ph

Emerging Technologies Sectors:

Ms. Edna C. Nacienceno, ecnacienceno@pcieerd.dost.gov.ph

For **general or inquiries related to the Call Guidelines**, the applicant may contact:

Ms. Grace F. Estillore, Policy Coordination Division,
gfestillore@pcieerd.dost.gov.ph

Additional information

[PCIEERD Eligibility Criteria Checklist](#)

[PCIEERD Technical Panel \(TP\) Evaluation Criteria/Score sheet](#)

[PCIEERD Management Team \(PMT\) Evaluation Criteria/Score sheet](#)

[PCIEERD Governing Council \(GC\) Criteria/Score sheet](#)

List any supporting documents you will provide

References for PCIEERD-supported projects:

<http://projects.pcieerd.dost.gov.ph/>

<https://pcieerd.dost.gov.ph/library/annual-reports>

<https://pcieerd.dost.gov.ph/supported-programs-projects/supported-programs-and-projects/on-going-projects>

<https://pcieerd.dost.gov.ph/supported-programs-projects/supported-programs-and-projects/completed-projects>

List any related content links

AO 011 series of 2020 Revised Guidelines for the [Grants-in-aid Program of the Department of Science and Technology and its Agencies](#)

[AO 13 S. 2021] [Amendment to DOST Administrative Order No. 011, Series of 2020, otherwise known as the "Guidelines for the Grant-in-Aid \(GIA\) Program of the Department of Science and Technology \(DOST\) and its Agencies"](#)

[AO 17 S. 2021] [Amendment to DOST Administrative Order No. 011, Series of 2020, otherwise known as the "Guidelines for the Grant-in-Aid \(GIA\) Program of the Department of Science and Technology \(DOST\) and its Agencies"](#)

[DPMIS – Proposal Submission Guide](#)

PCIEERD Sectoral Roadmaps: <https://pcieerd.dost.gov.ph/library/road-maps>