



22 April 2024

Dear Researchers and Partners:

The Department of Science and Technology - Philippine Council for Industry, Energy and Emerging Technology Research and Development (DOST- PCIEERD) would like to inform you of the **2024 Joint Research Project Call for Proposals between the DOST and the Ministry of Science and Technology (MOST) of the People’s Republic of China** in the following areas:

1. Energy and Industry
 - a. Energy storage
 - b. Green construction materials
2. High Technology
 - a. Artificial Intelligence
 - b. Quantum Technology

In light of this, we extend an invitation to researchers to submit proposals aligned with the specified research areas mentioned above. For interested researchers, comprehensive details of the Call can be found through this link: <https://www.dost.gov.ph/23-announcements/3556-call-for-applications-2024-dost-most-joint-research-project.html>. Moreover, please take note of the Call timeline as outlined below:

Activity	Timeline
Call for applications	15 March 2024
Deadline for submitting applications	27 May 2024
Exchange lists of applications that meet the eligibility requirements	03 June 2024
Announcement of shortlisted proposal	09 July 2024
Deadline for submission of full-blown proposal	29 July 2024
Exchange of respective review results	20 September 2024
Selection decision and announcement	October 2024
Implementation of projects	From November 2024 to November 2026
Submission of final reports	Upon completion of each project

The **capsule proposal and required attachments** should be submitted via email to **Mr. Gabriel Sumague** at gatsumague@dost.gov.ph copy furnished itcu@dost.gov.ph.



Thank you for your attention and participation in advancing research and development for the betterment of our society.

Very truly yours,


MS. GRACE F. ESTILLORE
Chief Science Research Specialist, PCMD and
Officer-in-charge, Office of the Executive Director

For: DR. ENRICO C. PARINGIT
Executive Director

Philippine Council for Industry, Energy and Engineering
Technology Research and Development

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Funding opportunity template

Funding opportunity title

2024 Joint Research Project Call for Proposals between the DOST and the Ministry of Science and Technology (MOST) of the People's Republic of China (2024 DOST-MOSTJRP)

Key information

Type of funding	Grant
Funding Agency	Department of Science and Technology
Co-funder(s) <i>External agencies</i>	Ministry of Science and Technology (MOST) of the People's Republic of China
Add link to start the application	DOST Project Management Information System (DPMIS): http://dpmis.dost.gov.ph

Timeline

Event	Date	Time
Opening date (capsule proposals)	15 March 2024	8:00 AM
Closing date (capsule proposals)	27 May 2024	
Closing date (full-blown proposals)	29 July 2024	5:00 PM
Evaluation Period		
Local	August – September 2024	
International	June – September 2024	
Announcement of Results	October 2024	
Implementation of projects	From November 2024 to November 2026	

Overview

In pursuit of cooperation between the Department of Science and Technology (DOST) and the Ministry of Science and Technology (MOST) of the People's Republic of China. The Philippine Council for Industry, Energy and Emerging Technology Research and Development (PCIEERD) will be participating in the 2024 DOST-MOSTJRP. Researchers are requested to submit capsule proposals by 27 May 2024 and Full-blown proposals until 29 July 2024. Implementation of the approved projects will commence November 2024.

Opportunity summary

This funding opportunity encourages S&T collaboration and 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.

For this Call, PCIEERD will be participating in the following priority areas: (1) Energy and Industry and (2) High Technology. Specific topics are as follows:

Energy and Industry	Specific Topics
Energy Storage	<ul style="list-style-type: none">• Fuel Cell and Hydrogen Technology• Supercapacitors• Rechargeable Batteries• Development of Conductive Materials as Additives• Recycling of Spent Battery Materials
Green Construction Materials	<ul style="list-style-type: none">• Construction industry digitalization• Competitive sustainable construction indigenous materials• Earthquake engineering system and technologies
High Technology	
Artificial Intelligence	<ul style="list-style-type: none">• AI for Banking and Finance (possible topics include Financial Inclusion through AI, Fraud Detection in Digital Payments, Regulatory Compliance Automation, among others)
Quantum Technology	<ul style="list-style-type: none">• Development of algorithms for quantum networks• Application of quantum cryptography• Implementation of error-corrected logical qubits with fault-tolerant gates• Quantum communication

Who can apply

Any Filipino, public or private entity with proven competence may apply, provided that projects fall under the specific research areas with overall goal to benefit Filipinos.

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 2024 DOST-MOST JRP under the areas of (1) Energy and Industry; and (2) High Technology. The program will support a maximum of **five (5) projects with annual funding of Php 5,000,000.00**. No Program submission will be entertained for this call for proposals. Only Project Proposals will be accepted for further technical review.

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.

How to apply

Applications should be submitted through the DOST Project Management Information system (<http://dpmis.dost.gov.ph>) until **29 July 2024, 5:00 P.M.**

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
3. Select Type of Proposal: 2024 DOST-MOST JRP
4. 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 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.

V. R&D Priority Area and Program

Based on the Harmonized National R&D Agenda 2017-2022, indicate in which R&D agenda the project can be categorized: Industry, Energy, and Emerging Technology; Disaster Risk Reduction and Climate Change Adaptation (DRR-CCA). Indicate also the specific Sector which is any of the following:

- a. Energy
- b. Construction
- c. Water Management
- d. Quantum Computing
- e. Artificial Intelligence

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**- Conference proceedings; Publications in internationally/locally recognized indexed journals; Publication in non-indexed, peer-reviewed journals, conferences/abstracts in scientific journals e.g. Scopus, Web of Science, etc.; Published patent landscape reports; Theses and dissertations; High Impact Journal Publications; Industry Article Citation Impact.
- b. **Patent/Intellectual Property**- Utility Model, Copyright, Trade Secret, Industrial Design
- c. **Products and Processes** - Proof of Concept (TRL 3); Prototype (TRL 4) and IRL 1-5; Translation of Prototype to Product/Process (TRL 4-5); Technology Transfer or Commercialization (TRL 6-8; IRL 5-8); Other Products or Processes for Public Good: Systems and Tools; Database and Compendium.
- d. **People and Services**- Addition to Scientific Workforce by Graduating Science and Engineering Programs (B.S., M.Sc., and Ph. D. Degree Holders), Mentorships, Internships, Post-Docs, Sandwiches, and Joint/Exchange Programs; Number of Trained Personnel in Specialized Fields of Project Related Studies Through Trainings, Seminars, Write Shops, Workshops, Conferences, and Fora; Trainings, Seminars, Writeshops; Workshops; Conferences; Fora; For Operational Support for Consortia: Number of Trained Personnel Through Human Resources Development Activities Conducted; Number of Services
- e. **Places and Partnership**- Established or Upgraded Facilities; Letter of Support/Commitment and Memorandum of Agreement/Understanding; For Operational Support of the Consortia or Equivalent Body: New Partnerships Forged with Higher Education Institutions (HEIs), Private Organizations, Micro, Small, and Medium Enterprises (MSMEs) and/or Large Industries to Become Members of the Consortium or Equivalent Body
- f. **Policies**: Policy briefs; Protocols (Procedure/Guidelines); National and International Standards; Proposed Congressional laws or legislations; Proposed executive order/administrative order/department order; Policies adopted by private sector/associations from project outputs; Memorandum circular and roadmaps adopted through policy; Updating of regulatory rules and guidelines of professional societies; Policy recommendations in the form of policy brief; Proposed policy adopted and translated into public service by end- users.
- g. **Public Engagement for S&T Projects** - Outputs under this category are classified into Dissemination, Dialogue, and Participation.
Dissemination: brochures, videos, posters, flyers, primers, technology guides, press releases, new and feature articles (tri-media and social media), pamphlets, newsletters, marketing collaterals, investment kits, media interviews, infographics, exhibitions/fairs, pitching activities, and other popular Forms.
Dialogue and Participation: commercialization activities, focus discussion groups, stakeholders' meetings, fora, press conferences, citizen science activities, and other public engagements of similar nature.

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

Refer 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

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, and Governing Council (GC) level.** 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, 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, napeña@pcieerd.dost.gov.ph

Emerging Technologies Sectors:

Ms. Edna C. Nacianceno, ecnacianceno@pcieerd.dost.gov.ph

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

Ms. Carolina P. Sancho at cpsancho@pcieerd.dost.gov.ph or Ms. Hannah Marie T. Mejia at hannah.mejia@pcieerd.dost.gov.ph

Additional information

[PCIEERD Eligibility Criteria Checklist](#)
[PCIEERD Management Team \(PMT\) Evaluation Criteria/Score sheet](#)
[PCIEERD Technical Panel \(TP\) 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>