

Department of Science and Technology

Science for Change (S4C): Accelerated R&D Program for Capacity Building of Research and Development Institutions and Industrial Competitiveness

CALL FOR PROPOSALS 2017

Collaborative Research and Development to Leverage Philippine Economy (CRADLE)

I. Introduction

With increasing economic and global competition and putting the ASEAN integration in perspective, it is imperative for the Philippines to implement initiatives that will improve the innovation system to leverage economic progress. Collaboration between private companies and the academe is an emerging strategy for knowledge exchange, and production and utilization of new technologies that is yet to be maximized.

Through the **Collaborative Research and Development to Leverage Philippine Economy (CRADLE)**, the DOST will help create a synergistic relationship between the academe and the industry with the goal of invigorating Philippine R&D. Under the CRADLE Program, the private sector industry will identify the problem; and the High Education Institution (HEI) or Development Institution (RDI) will undertake the research and development. CRADLE funding will only be given to the HEI or RDI.

The CRADLE Program is composed of two components, which aim to target each level of the technology transfer process---from pursuit of industry-driven basic research, academe-industry joint research, and product development stage to technology promotion/transfer.

- CRADLE 1: Collaborative R&D Based on Industry Demand
 - To support both the pursuit of basic R&D and the transition of R&D results to the industry.
 - CRADLE 1 engages both the academe and the industry into a cooperation that is mutually beneficial, whereby the academe, through its R&D capability and human resource, supplies the R&D needs of the industry and in the process helping the industry gain innovative market advantages.
 - DOST Funding: maximum of P5M, for 1-3 years (industry cooperator may contribute additional funds)
- CRADLE 2: Product Development
 - To cover joint funding for the development of commercial applications and products
 - The academe may collaborate with Micro-, Small- and Medium- Enterprises (MSMEs)

- DOST Funding: maximum of P5M, for 1-2 years (industry cooperator may contribute additional funds)

The Department of Science and Technology (DOST) is now ready to accept research and development (R&D) proposals for 2017-2018 from HEI/company/industry for the **CRADLE program**. The R&D proposals should meet the program objectives which are:

- to bridge the academe and the industry; and
- to stimulate collaboration that meets the needs of both academe and industry in one shot.

Together, the academe as producer of knowledge and manpower, and the industry as the entity that translates technologies to real world applications, will generate new opportunities for Filipinos in the form of new industries, enterprises, jobs and solutions to pressing community and national problems. Furthermore, collaboration will ensure timeliness and relevance of R&D endeavors, with reference to practical and pressing national needs.

II. Priority Areas for Funding

All projects under the CRADLE Program shall be anchored on the priority areas identified in the Harmonized National R&D Agenda (HNRDA) 2017-2022, aligned with the Philippine Development Plan 2017-2022, and falls under the Investment Priority Plan 2017-2022.

Under the HNRDA, by 2022, the Philippines shall have developed a wide range of globally competitive products and services, which have high technology content. The following are the areas for funding consideration:

- a) Basic Research
 - Water; food and nutrition security; healthful lifestyle; clean energy; sustainable communities
- b) Health
 - Drug discovery and development; diagnostics; genomics/molecular technology; functional foods; hospital equipment and biomedical devices; information and communication technology for health, nutrition and food safety; disaster risk reduction for health; and climate change adaptation for health
- c) Agriculture, Aquatic and Natural Resources Sector (AANR)
 - Crops; livestock; fisheries and aquaculture; forestry; natural resources; and environment
- d) Industry, Energy and Emerging Technology
 - Country-side development; competitive industry; delivery of social services; human security
- e) Disaster Risk Reduction and Climate Change Adaptation (DRR CCA)
 - Observation and monitoring networks; technology development and application for monitoring, modelling and simulation for improvement of monitoring and forecasting, hazards, vulnerability and risk assessment; warning and communication of information; technology development and application for climate change mitigation and adaptation; and technology development and application for disaster risk management

III. Expected Outcomes and Outputs

The CRADLE Project targets the following outcomes:

- A synergistic relationship between knowledge generators (academe) and the industry to enable the technology transfer process
- An improved R&D innovation system in the country whereby economic potential that may arise from R&D outputs is captured/ facilitated
- Translation of new knowledge to products/ applications that create local industry competitiveness to leverage local economy
- Academe R&D that is relevant, timely and matched to the needs of the industry

The following are the expected outputs from both the CRADLE Project Team and Grantees:

- Publications (in recognized scientific journals or peer-reviewed publication)
- Patents (tangible measure of innovation, or intellectual property)
- Products/ Process (new or innovative, with commercial value)
- People Services (increase in the scientific and technological workforce)
- Places (facilities that enable increased 6Ps output)
- Creation of New Enterprises/ Employment
- Collaborative Research/ Local and International Partnership Agreements
- Technical/Technology Consultations between companies and researchers
- Technology Exhibitions/ Demonstrations (Academe-Industry Forum & Dialogue)

IV. Procedure for Proposal's Submission, Evaluation and Approval

- a) Interested applicants should submit their capsule proposals to the Office of the Undersecretary for R&D. The proposal should be a joint undertaking between the HEI, and private company or industry sector.
- b) The proposals will undergo the DOST-GIA evaluation process through the DOST Councils – PCAARRD, PCHRD, PCIEERD and NRCP, for endorsement and approval by the DOST-Executive Committee.
- c) General Criteria
 - All proposals submitted should be in line with the priority industries identified by the Department of Trade and Industry (DTI).
- d) Application Requirements/ Eligibility of Proponent
 - For complete details on the eligibility of the proponents, application requirements, general criteria for evaluation, proposal formats, technical and financial monitoring, report submission and other provisions related to this funding, please refer to the Revised Guidelines of the DOST-Grants-In Aid Program (DOST-GIA) at website <http://gia.dost.gov.ph>
 - Submit the Capsule Proposal using the DOST Form No. 1A and 1B downloadable from <http://gia.dost.gov.ph/site/index.php/aux-downloads/category/2-dwn-forms>

- Copy of business permits and licenses of the private sector partner from relevant LGUs and other government offices
- Certification from the private sector partner that the R&D output will be adopted by the company.
- Financial statements of at least the past three years for the private sector partner duly signed by a Certified Public Accountant/Auditor, and projected financial statements for the next five years
- Certificate of Registration of Business name with DTI, SEC, or CDA

V. Office of the Undersecretary for R&D Contact:

For further inquiries, the applicant may contact:

Office of the Undersecretary for R&D
 Room 212, DOST Main Building, Bicutan, Taguig City
 usecrd@dost.gov.ph & s4c.ousecrd@gmail.com
 837-2930/ 837-2943

All questions or comments must be communicated in writing via postal mail, facsimile, or electronic mail to the above address/phone/email.

Timetable/Schedule

Stages	Indicative Period
Call for Proposals	02 May 2017
Deadline for Submission of Capsule Proposals	15 June 2017
Evaluation Period for Capsule Proposals	16 June to 15 July 2017
Deadline for Submission of Full-blown Proposals (only for those with approved Capsule Proposals)	31 July 2017
Evaluation Period for Full-blown Proposals	01 August to 31 October 2017
Information to Proponents on the Status	02 November to 15 December 2017

NOTE:

Early submission of proposals is encouraged. Notice of acceptance and grant of project may be given in advance for proposals that are submitted early. Late and incomplete submission will not be accepted.