



## **Guidelines for the 6<sup>th</sup> Cycle Request for Proposals**

### **I. Funding Opportunity Description**

Eligible for funding consideration are project proposals that are jointly developed and submitted by collaborative teams composed of researchers from Philippine-based higher education institutions and from any of the following campuses of the University of California:

- University of California Berkeley (UCB)
- University of California San Francisco (UCSF)
- University of California Davis (UCD)
- University of California Los Angeles (UCLA)
- University of California Merced (UCM)
- University of California San Diego (UCSD)

The following Philippine-based Higher Education Institutions (HEIs) are eligible for funding under the PCARI Project:

- CHED Centers of Excellence/Development (COE/COD);
- Member universities of the National Science Consortium (NSC);
- Member universities of the Department of Science and Technology-Engineering Research and Development for Technology (DOST-ERDT); and
- Other Philippine higher education institutions able to collaborate with the researchers from any of the above UC campuses.

The project proposals must be in the following thematic areas:

- Information Infrastructure Development
- Health Innovation and Translational Medicine

Research proposals in the Social Sciences may be submitted provided they are related to thematic areas stated above.

### **A. Background and Scope of Work**

The Philippine-California Advanced Research Institutes (PCARI) is a project of the Philippine government's Commission on Higher Education (CHED) in collaboration with California-based and leading Philippine academic institutions. The PCARI project aims to establish a platform for capacity-building to fulfill the Philippine government's goal of mobilizing knowledge for greater productivity and economic growth in the areas of Information Infrastructure Development and Health Innovation and Translational Medicine.

Information Infrastructure is the basic, underlying framework of an organization's information resources. Modern information infrastructure involves both human and technological components. Today, most information is stored, processed and communicated through computers and electronic media. These include the technological and human components, networks, systems, and processes that contribute to the creation, flow or exchange, processing and management of electronic information.

Translational Medicine technically means from “bench-to-bedside” or, from the laboratory to the clinics, hospitals or health centers to address pressing health challenges in the Philippines. Projects in health innovation and translation medicine are expected to involve experts in clinical and translational research, product and technology development, clinical trials, clinical care, and health policy and training.

Two virtual institutes representing these two key technology areas have been established: 1) the Institute for Information Infrastructure Development (IIID), and 2) the Institute for Health Innovation and Translational Medicine (IHITM).

**PCARI-IIID** will bring together leading academics, researchers and industrial partners to promote innovation through research and development and capacity-building in vital information and communications technologies for the Philippines, with emphasis on resilient cyber-physical infrastructure, energy, online education, e-governance and agriculture. The institute will work across a portfolio of high-impact, innovative projects that aim to develop relevant technologies closer to commercialization, as well as upstream scientific projects that will build research capabilities and infrastructure in selected local HEIs. By stimulating an ecosystem of Research / Development / Deployment (RDD), the IIID aims to help the Philippines “leapfrog” the development of an advanced and globally-competitive information and communications technology industry.

**PCARI-IHITM** will undertake research and development activities, including capacity-building, to address pressing health challenges in the Philippines by bringing together experts in clinical and translational research, clinical trials, clinical care, and health care delivery to drive health-related innovation in the Philippines towards the implementation of science-based health policy, and beyond. Building on existing models and expertise, the institute will focus on developing robust research and clinical capacity within the Philippines by developing new devices and new methods of diagnosis and new drugs leading to the testing and implementation of high-quality, cost-effective models of delivering healthcare. At the same time, PCARI-IHITM will develop new materials and products from agriculture that will improve nutrition and general well-being as well as platforms for preventive medicine, thus, enhancing the quality of life and increasing life span.

## B. Thematic Areas

Project proposals must be jointly developed and submitted by collaborative teams composed of researchers from Philippine-based higher education institutions and from any of the following campuses of the University of California:

- University of California Berkeley (UCB)
- University of California San Francisco (UCSF)
- University of California Davis (UCD)
- University of California Los Angeles (UCLA)
- University of California Merced (UCM)
- University of California San Diego (UCSD)

The project proposals must be in the following thematic areas:

- Information Infrastructure Development
- Health Innovation and Translational Medicine

Research proposals in the Social Sciences may be submitted provided they are related to thematic areas stated above.

**PCARI-IIID**: Advances in electronics and computing have led to smaller, low power, capable, connected devices and systems being deployed ubiquitously that enable robust networked societies characterized by on-demand availability of information. Many physical systems such as power grids, water distribution utilities, transportation and supply chain networks, for example, increasingly depend on reliable computing and communications infrastructure that provide timely and accurate information to enhance reliability, efficiency and quality of service. This *information infrastructure* involves devices, networks, systems, and processes that contribute to the creation, storage, exchange and processing of electronic data towards enabling such actionable information.

Submitted proposals to PCARI-IIID must target innovations that enable resilient information infrastructure for applications in, but not limited to:

- e-Learning; Online education;
- Artificial intelligence;
- Disaster risk management and response;
- Environmental monitoring;
- Precision agriculture and food security;
- Resource assessment;
- Transportation;
- Smart buildings and environments;
- Energy generation, transmission, distribution, storage, monitoring and control;
- Renewable energy;
- Water supply and distribution systems;
- e-government and national security.

**PCARI-IHITM:** Projects must clearly state how they will impact one or more of the Philippines' health priorities as described through the following tables on Mortality and Morbidity rates preferably based on the five- year (2004-2008 & 2009 & 2010) average data from the website of the Philippine Department of Health and within the priorities of the National Unified Health Research Agenda (NUHRA) 2017-2022.

Table 1. Top 10 Causes of Mortality (2013) and Morbidity (2014) Rates in the Philippines (Department of Health)

<b>Mortality 5-Year Average (2008-2012) &amp; 2013*</b>	<b>Morbidity 2014*</b>
1. Diseases of the Heart	1. Acute Respiratory Infection**
2. Diseases of the Vascular System	2. Acute Lower Respiratory Tract Infection and Pneumonia
3. Malignant Neoplasms	3. Hypertension
4. Pneumonia	4. Urinary Tract Infection
5. Accidents**	5. Bronchitis
6. Diabetes Mellitus	6. Influenza
7. Chronic Lower Respiratory Diseases	7. Acute Water Diarrhea
8. Tuberculosis, all forms	8. TB Respiratory
9. Nephritis, Nephrotic Syndrome and Nephrosis	9. Dengue Fever
10. Certain conditions originating in the Perinatal Period	10. TB Other forms
Note: Excludes ill-defined and unknown causes of mortality ** External causes of Mortality *reference Year <a href="http://www.doh.gov.ph/sites/de">http://www.doh.gov.ph/sites/de</a>	Note: * reference year <a href="http://www.doh.gov.ph/sites/default/files/publications/2013PHScompressed_0.pdf">http://www.doh.gov.ph/sites/default/files/publications/2013PHScompressed_0.pdf</a>

***For this 6<sup>th</sup> round, proposals are encouraged in e-Learning, Artificial Intelligence, Data Science, Agriculture, Food Processing, Nutrition, Marine and Aquatic Sciences, related to Health Innovation & Translational Medicine, and Information Infrastructure Development***

### c. List of Approved Projects (Cycles 1-5)

**For your guidance, the following are the approved projects from Cycles 1 to 5:**

#### **Institute for Information Infrastructure Development**

- Resilient Sensory Swarms for Smart Energy and Environmental Monitoring (RESE<sup>2</sup> NSE)
- The Village Base Station
- Resilient Cyber Physical Societal Scale System
- Cost-Effective Manufacturing Using Printing Fabrication Technologies for Energy Generation, Conditioning, and Monitoring Devices

- E-Participation 2.0: Connecting Diverse Philippine Populations for Disaster Risk Management with a Toolkit Integrating Text and Speech Analytics
- GREEN POWER: Generating Renewable Energy via Electrolysis of Water Using New Power Hybrid Systems [Project 1: Hydrogen Generation Using Solid Oxide Electrolysis Cells (SOEC); Project 2: Energy Production Using Polymer Electrolyte Membrane Fuel Cells (PEMFC)]
- Resilient Electricity Grids [Project 1: Resilient Demand Side Management Using Interruptible Loads; Project 2: Micro-synchrophasors for Resilient Distribution Network Operation and Control; Project 3: Resilient Electricity Grids Through Data Analytics for Diagnostics and Intervention]
- Cloud-based Intelligent Total Analysis System (CITAS) using Wireless Sensors and Mobile Microscopy
- 3<sup>rd</sup>-Generation VCSEL for Resilient Communication Networks (3V-ReCoN)
- AIRSCAN: Collaborative Aerial Robotics in Large-Scale Urban Infrastructure Management
- NanoQuench: Synthesis and Modeling of Porous Activated Graphene Nanofilters for Precise Water Purification and Desalination
- Development of Wireless Sensor Network-Based Water Information System for Efficient Irrigation Water Management in the Philippines
- Chemical and Environment-Portable Sensor Technologies (CE-PoST)
- Resilient Sensor Networks for Energy and Environment Monitoring (RESE<sup>2</sup>NSE) Phase II
- CoCoMonets: Connecting Communities through Mobile Networks (Phase II of VBTS)
- Cost Effective Manufacturing Using Printing Fabrication Technologies for Energy Generation, Conditioning and Monitoring Devices (Phase II)
- Data Analytics for Research and Education (DARE)
- Scalable Community Access Networks (SCAN)
- Indoor Vertical Farming System (IVFS) for Whole Year Round Production of High Value Crops in the Lowland Tropics: A Precision Agriculture for Food Security
- Developing Information Infrastructure for Managing Antibiotics and Endocrine Disrupting Substances in Pampanga River Basin and its Coastal Environs: Maps, Transport Models and Bioindicators of Ecological and Health Risks
- Deploying Unmanned Research Vessels to Advance Marine and Environmental Health Monitoring and Data Collection in the Philippines
- Philippine Electro Chemical Arsenic Remediation (ECAR): Implementation of a Novel Technology to Affordably and Effectively Remove Arsenic from Contaminated Philippine Groundwaters
- Vibrational Energy Harvesters for Resilient Sensor Nodes (VERSe)

## **Institute for Health Innovation and Translational Medicine**

- High Throughput Screening of Philippine Terrestrial and Marine Organisms for Antimalarial Properties and Identification of Novel Drug Targets
- Philippine-University of California (UC) Collaboratory for Device Innovation (Education/Training Award)
- Accessible Detection of Dengue using BioMEMS and MIP materials
- Expansion of the Shared Genomics Core Facility in the Philippines
- Increasing the Rates of Newborn Hearing Screening with Novel Technologies and Telehealth
- Metagenomic Contributions to Type 2 Diabetes Among Filipino Populations
- Wearable Cardiac Arrhythmia Monitor based on Low-Power Radar
- Establishment of a Philippine Cancer Phenome-Biobanking System and Biomonitoring Program
- One Health: Innovations in Early Detection and Interventions in Human, Animal, and Plant Health
- Glycoproteomics of Filipino Lung Cancer Cell Lines for Biomarker Discovery and Anti-Cancer Screening of Natural Products
- High Throughput Screening of Philippine Terrestrial and Marine Organisms for Anti-Malarial Properties and Identification of Novel Drug Targets (Phase II)
- Accessible Detection of Dengue Using BioMEMS and MIP Materials (Phase II)
- Integrating Non-Communicable Diseases (NCD) Management in Primary Health Care: A Population Health Survey and Action Initiative
- Technology Transfer of Clinical and Molecular Advances in Autism
- Establishment of the University of the Philippines Manila Drugs of Abuse Research Laboratory

### **D. Expected Outputs and Outcomes**

Expected outputs from the research and development and capacity building projects to be funded under this announcement should focus on any of the PCARI Thematic Areas. The term output means an activity, effort, and/or associated work product related to project goals and objectives that will be produced or provided over a period of time or by a specified date.

Outputs may be quantitative or qualitative but must be measurable or demonstrable during a funding period. Specific outputs and outcomes must be clearly identified in the proposal form, including content and timing.

**New knowledge expected from the project should be clearly defined and differentiated from similar research undertakings in other parts of the world.**

The reporting requirements for each project are described in Section VI.B. The Initial budget proposal should cover two years provided that funding for second year will be subject to satisfactory performance and favorable technical review. Reports expected at the end of the project may include the number of scholars supported and trained towards a Master's or Doctoral degree, a commercialization and/or deployment plan, marketing plan, patentable materials, technical papers or publications, and curriculum materials. For each project, the Project Leader (PL) (Philippine-side) and the Principal Investigator (PI) (California side) will work with their Institute Director to ensure outputs and outcomes are relevant.

Projects to be funded are expected to have significant societal impact and contribute new knowledge to science and fulfill the PCARI Mission. Hence, each project proposals must consider the following:

**a) Impact:**

- (1) Addresses PCARI research priorities as identified in the Thematic Areas.
- (2) Addresses a significant societal scale problem; has potential to bring about and sustain technology transfer or commercialization activities and/or measurably improve health.
- (3) Targets a wide scope of stakeholders including the poor, marginalized and vulnerable sectors.
- (4) Contributes to the development of a critical mass of faculty, scientists and researchers with capacity for R&D that translates to technological innovations and social interventions.

**b) Science & Achievability:**

- (1) Clearly defines new knowledge expected from the project and differentiates this from similar research undertakings in other parts of the world as indicated in the literature review;
- (2) Exhibits strong scientific rationale, preferably with preliminary work already performed;
- (3) Has potential for demonstrable results in the short-term (1-2 years) that are expected to solve Philippine societal needs and are superior to existing solutions in the market;
- (4) Demonstrates strong rationale for building competitive advantage in the field of study for the Philippines or the research team;
- (5) Involves capable research team;
- (6) Has reasonable budget;
- (7) Proposes sufficient duration to complete activities including support for scholars whose research will be funded by the project; Project proposal may be designed in phases of two years subject to an annual review;
- (8) Discloses intellectual property concerns or issues such as Background IPs, potential restrictions for use.

**c) Contribution to overall mission of PCARI:**

- (1) Presents strong potential for sustained partnerships between researchers in the Philippines and California-based institutions (guidance will be provided to facilitate these partnerships).
- (2) Integrates trainees and students from the Philippines pursuing graduate degrees into the project.

- (3) Creates re-usable infrastructure (services/resources/networks) in the Philippines that can be leveraged for future projects.
- (4) Identifies the potential end-users and indicates how the project gains may be utilized and sustained.

## **II. Award Information**

### **A. Funding Opportunity**

Funding for the project will be subject to availability of funds and the quality of the proposals received.

Research proposals may include budgetary outlay for equipment necessary for the implementation of the project. All equipment bought under the PCARI Project must be located solely in the Philippines.

Philippine Project Leaders of successful proposals are eligible for the CHED Research Chair Award (CHED Memorandum Order No. 18, series of 2015, as amended by CMO No. 06, series of 2017).

If additional funding becomes available after the original selections, PCARI reserves the right to make additional awards under this announcement, consistent with the PCARI policy.

### **B. Funding Agreement**

The funding for selected projects will come from CHED and will be covered by a tripartite Research Funding Agreement (RFA) among CHED and the implementing higher education institutions (HEIs) in the Philippines and in California, USA.

## **III. Application Requirements**

Project proposals must be jointly developed and submitted by collaborative teams composed of researchers from any of the campuses of the University of California indicated earlier and the following Philippine-based higher education institutions:

- CHED Centers of Excellence/Development (COE/COD);
- Member universities of the National Science Consortium (NSC);
- Member universities of the Department of Science and Technology-Engineering Research and Development for Technology (DOST-ERDT); and
- Other Philippine higher education institutions able to collaborate with the researchers from the above UC campuses.

The project proposals must be in the following thematic areas:

- Information Infrastructure Development
- Health Innovation and Translational Medicine



Research proposals in the Social Sciences may be submitted provided they are related to thematic areas stated above.

The Philippine collaborating Project Leader must collate and submit the joint project proposals on or before the set deadline.

For proposals to be evaluated and ranked according to Section I.C Expected Outputs or Outcomes of this announcement, they must:

- demonstrate the advancement of PCARI interest areas as listed in Section I.B, Thematic Areas
- be written in English
- use the provided proposal templates and comply with the proposal submission instructions and requirements set forth in Section IV
- be received electronically by PCARI on or before the proposal submission deadline specified in Section IV.B

Proposals that do not meet the above conditions will be returned within 15 calendar days from the deadline set for submission.

## IV. Proposal and Submission Information

### A. Content of Proposal

Submissions must use the proposal templates indicated below and must be sent via email to [proposals.pcariproject@ched.gov.ph](mailto:proposals.pcariproject@ched.gov.ph) as an attachment using the specified format, font Arial 11, and to fit an 8.5" x 13" paper size. Please note the instructions below referring to submission in both PDF and Word format.

Each attached file should indicate either of the following RDIs: IIID or IHITM, followed by the last name of the Project Leader and Principal Investigator and the type of attachment.

PROJECT PROPONENTS MUST OBTAIN PRIOR WRITTEN CONSENT/CLEARANCE IN THE FORM OF A LETTER OF SUPPORT FROM PERTINENT AGENCIES OF GOVERNMENT AND/OR THE PRIVATE SECTOR THAT WILL BE INVOLVED IN THE PROJECT EITHER AS COLLABORATOR OR USER OF TECHNOLOGY-GENERATED.

All attached files should be placed in a single directory. For example:

- RDI\_PH PL Surname\_US PI Surname <Note: parent directory>
  - 1\_RDI\_PH PL Surname\_US PI Surname\_Data\_Sheet\_PCARI2018.docx and pdf
  - 2\_RDI\_PH PL Surname\_US PI Surname\_Narrative\_Proposal\_PCARI2018.docx and pdf
  - 3\_RDI\_PH PL Surname\_US PI Surname\_Line\_Item\_Budget\_PCARI2018.xlsx
  - 4\_RDI\_PH PL Surname\_US PI Surname\_Budget\_Justification\_PCARI2018.docx and pdf
  - 5\_RDI\_PH PL Surname\_US PI Surname\_Letter of

- Commitment\_PCARI2018.pdf
- 6\_RDI\_PH PL Surname\_US PI Surname\_Project\_Results\_Work\_Plan\_Matrix\_PCARI2018.docx and pdf
- 7\_RDI\_PH PL Surname\_US PI Surname \_Project\_Milestones\_and\_Costs\_Table\_PCARI2018.xlsx
- 8\_RDI\_PH PL Surname\_US PI Surname\_Attachments\_PCARI2018.pdf

More information on some of the aforementioned files are provided below. The recommended number of pages for each section is also indicated.

## 1. Narrative Proposal

(2\_RDI\_PH PL Surname\_US PI Surname\_Narrative\_Proposal\_PCARI2017.docx and pdf)

### **a) Summary Page (1-2 pages)**

- (1) Project Title
- (2) Applicant Information (Organization name; address; email, phone numbers for Principal Investigator, Co-PIs, Administrative and Academic Contacts)
- (3) Funding Requested. Project proposal budgets must be rounded off to the last Peso. The budget for the US side must be stated in US Dollars and converted to Philippine pesos at exchange rate of PhP53.00 per USD1.00. Payments to the US side will be in USD Dollars.
- (4) Project Period: Provide the beginning and ending dates for planning purposes.

### **b) Narrative Proposal Work Plan**

- (1) Project Approach

#### **(a) Abstract (1-2 pages)**

- Description of current situation/problem
- Specific Objectives/Targets
- Description of project components
- Expected Benefits

#### **(b) Approach (maximum of 5 pages)**

- Review of literature
- Innovation and Impact (**New knowledge expected from the project should be clearly defined and differentiated from similar research undertakings in other parts of the world**)
- Methods
- Design
- Plan

#### **(c) Project Team Description & Roles (1-2 pages)**

- Include the percentage of each team member's time/contribution to the project (i.e. percent of their full time position; e.g., if a team member dedicates 10 hours of a 40 hour work week to the project, their percent time is 25%).

#### **(d) Annual Project Deliverables & Intermediate Key Milestones (1-2 pages)**

**(e) Collaboration Plan (1-2 pages)**

- Describe how coordination between US and Philippine partners will be ensured.

**(f) Scholarship and Training Plan (1-2 pages)**

- PCARI degree and non-degree training activities may be funded for the following:
  - Full time scholarships are already funded by the PCARI Scholarship Project managed by the Science Education Institute (SEI) under the Philippine Department of Science and Technology (DOST) and should not be included in the research project budget. However, dissertation and thesis support that are not included in the scholarship privileges must be incorporated into the project research proposal, e.g., travel expenses, sample analysis, laboratory tests, etc.
  - Research staff fully paid by the project and who are studying part-time may be entitled only to tuition, dissertation, and thesis support (e.g. travel expenses, sample analysis, laboratory tests, etc.) and such expenses must be included in the project research proposal.
  - For full-time administrative project staff, the project may provide funds for training activities to enhance research management and grants administration skills of full time administrative project staff. The budget justification for such training activities should include a monitoring plan.

Return service for scholars/trainees shall be required in accordance with existing government rules and regulations.

Project Leaders must indicate in their proposal the total number of scholars/graduate students (MS and Ph.D.) that can be funded by their project for the research requirements for their Master's Thesis or Doctoral Dissertation.

**(g) Institutional Research Environment**

- Determine the alignment of the work with the strategic direction of the host institution/department.
- Describe the logistics and infrastructure support required by the Project
- Describe the equipment to be purchased for the project and the space for the new equipment within the facility of the host department or institution.

(2) Project Results (maximum of 4 pages)

Identify the expected project outputs and how progress will be tracked and measured quantitatively and qualitatively, towards achieving the targets. Indicate how the results of the project will be evaluated.

Apart from a narrative describing the above items, the proponent should also accomplish the Project Results and Work Plan Matrix. In addition, the UC PI should accomplish the Project Milestones and Costs Table. See provided template:

(6 RDI\_PH PL Surname\_US PI

Surname\_Project\_Results\_Work\_Plan\_Matrix\_PCARI2018.pdf)

(7 RDI\_PH PL Surname\_US PI Surname \_

Project\_Milestones\_and\_Costs\_Table\_PCARI2018.xlsx)

## **2. Line Item Budget**

(3\_ RDI\_PH PL Surname\_US PI Surname \_

Line\_Item\_Budget\_PCARI2018.xlsx)

(4\_ RDI\_PH PL Surname\_US PI Surname \_

\_Budget\_Justification\_PCARI2018.docx and pdf)

### **2.1 PHILIPPINES**

2.1.1 The allowable direct costs are included in the budget template section. Applicants must itemize the costs related to personnel, MOOE and equipment, supplies, other direct costs, and total costs.

2.1.2 Personnel requirements of Philippine-based proponents shall observe the position titles and salary levels indicated in the attachment to the Line Item Budget template. Furthermore, honoraria shall be in accordance with the existing Philippine government guidelines.

2.1.3 All travel charges directly relating to the research exchange visits between California and PH sides should be included in the Philippine budget.

2.1.4 Description and use of equipment and their estimated costs should be included in the proposal submission. Estimated costs must include the cost of the equipment (FOB), freight, taxes, brokerage and custom fees, etc.

2.1.5 Non-expendable property with acquisition cost of PhP15,000.00 and above and with an expected useful life of more than one year are to be considered as equipment and must be included in the budget for Capital Outlay. Equipment and other large expense items should be supported with justification. Only Project Leaders based in the Philippines may avail of the capital outlay budget.

2.1.6 Semi-expendable property below the capitalization threshold of PhP15,000 shall be included under supplies and materials.

2.1.7 Repairs and maintenance shall refer to minor repairs of equipment and facilities in accordance with institutional and existing government rules and regulations. The construction of buildings for

both the US and Philippine components cannot be funded by the PCARI Project.

2.1.8 Counterpart funding whether in cash or in kind should be indicated by the proponents in their proposals.

2.1.9 A maximum fixed indirect cost of 20% of total direct PS and direct MOOE items shall apply. Indirect cost refers to those facilities and administration costs that are incurred for common or joint activities and, therefore, may not be identified readily and specifically with a particular sponsored project.

## **2.2 CALIFORNIA**

2.2.1 For personnel requirements of California-based proponents, postdoctoral researchers are strongly preferred over graduate student researchers. Tuition fee for non-Filipino graduate students cannot be funded under the project. US based personnel and other professional services should be charged to the UC budget.

2.2.2 Travel of California-based personnel to attend non-Philippine-based conferences, etc. cannot be supported by the project.

2.2.3 California-based Principal Investigators (PI) should not include equipment requests in their budget. Equipment for US components will not be funded by PCARI.

2.2.4 A maximum fixed indirect cost of 20% of total direct PS and direct MOOE items shall apply.

2.2.5 The budget for the US part should be stated in US Dollars(\$).

## **3. Attachments (Not counted in total page count)**

- Include references to relevant articles by PI and PL (maximum of 2 pages)
- Include a maximum of 3-page CV for each of the primary team members (Project Leader/s, Co-Project Leader/s, Principal Investigator/s, Co-Principal Investigator/s) (Section V.3.a)
- Include Letter of Commitment from each collaborator's University/Institution.  
(5\_ RDI\_PH PL Surname\_US PI Surname \_Letter of Commitment\_PCARI2018.pdf)

## **B. Proposal Submission**

Submissions must be received electronically by the PCARI Secretariat at proposals.pcariproject@ched.gov.ph on or before **31 March 2018, 11:59 PM, Manila time; (31 March 2018, 08:59 AM, PDT)** in order to be considered for funding. All proposals submitted in accordance with the submission instructions will receive an acknowledgment receipt from PCARI or the contact person mentioned in Section VII.

## C. Pre-Proposal Assistance and Communication

PCARI staff are available to provide appropriate pre-proposal assistance to eligible applicants interested in applying for funding under the PCARI Project. Eligible applicants are defined in Section III above. The assistance may include answering questions from potential applicants about administrative issues relating to the submission of a proposal, and responding to requests for clarification of the announcement. PCARI shall announce a briefing schedule to assist Philippine-based researchers in preparing their proposals. All adjustments in the proposals shall be made by the proponents.

### Contacts:

- PH side
  - IIID
    - Dr. Aura C. Matias, [amatias.pcariproject@ched.gov.ph](mailto:amatias.pcariproject@ched.gov.ph)
  - IHITM
    - Dr. Ernelea P. Cao, [ecao.pcariproject@ched.gov.ph](mailto:ecao.pcariproject@ched.gov.ph)
- UC Campuses
  - Berkeley
    - Dr. Anthony St. George, [st\\_george@berkeley.edu](mailto:st_george@berkeley.edu)
  - Davis
    - Dr. Jim E. Hill, [jehill@ucdavis.edu](mailto:jehill@ucdavis.edu)
  - Los Angeles
    - Ms. Alice Young-Singleton, Ed.D., [alice.young-singleton@research.ucla.edu](mailto:alice.young-singleton@research.ucla.edu)
  - San Francisco
    - Ms. Catherine Lagarde, [Catherine.Lagarde@ucsf.edu](mailto:Catherine.Lagarde@ucsf.edu)
  - Merced
    - Autumn Salazar, [atjalasma@ucmerced.edu](mailto:atjalasma@ucmerced.edu)
  - San Diego
    - [Stella Sung, shsung@ucsd.edu](mailto:Stella.Sung@ucsd.edu)
- Administration – [proposals.pcariproject@ched.gov.ph](mailto:proposals.pcariproject@ched.gov.ph)

## V. Evaluation Criteria

### A. Evaluation Criteria Framework

#### 1. Project Quality – 30 points

- Exhaustive literature and background review of the research project
- Uniqueness and novelty of the project
- Project comparability with other ventures around the world
- Impact of the project within the Philippines and beyond
- New knowledge to be produced by the project
- Clearly stated milestones and deliverables of the project
- Attainability of the project milestones within the project timeline
- Length of time by which the project deliverables will remain applicable
- Justification of the project if being divided into several subprojects

## **2. Education and Capacity Building – 30 points**

- Number of Filipino Ph.D. and MS students to be supported by the project;
- Number of Filipino Post-doctoral fellows to be supported by the project;
- Number of trainees in research management and grants administration to be supported by the project
- Number of technicians to be supported by the project
- List of new courses/training programs to be developed by the project

## **3. Institutional Research Environment(s) – 20 points**

- Institutional research environment(s) to achieve the goals of the project, specially logistics and infrastructure support
- Alignment of the research project with strategic direction of the host department/institution
- Provisions for space and utilities requirement of new equipment

## **4. Project Leader(s) and Team – 20 points**

- Capability of project proponents to achieve the goals of the project;
- Workload of the project proponents and the time allotted for the project

## **B. Review and Selection Process**

The proposals shall undergo a process of thorough review and screening by appropriately constituted Technical Review Panel composed of professional and technical experts in the field covered by the proposals. The reviewers shall be selected for their depth and breadth of knowledge in the relevant field as evidenced by their publications, patents, thesis advising and panel duties, awards and industry experience. Conflict of interest shall be a major factor in the selection of reviewers as provided in the CHED Order No. 02 series of 2013.

Proprietary information should not be disclosed in the proposals. Nonetheless, proposals will be treated confidentially and only shared with reviewers for the sole purpose of deciding which projects will be funded. Reviewers shall be required to sign a Non-Disclosure Agreement (NDA) and Conflict of Interest Statement (COI).

Each proposal will be given a numerical score and will be rank-ordered according to the numerical score. Final funding decisions shall be made by the CHED Commission *en banc* (CEB) based on the recommendations of the PCARI Project Advisory Group guided by the finding of the Technical Review Panel.

The results of the review and selection process will be released within **six (6) months** after the deadline of the submission of proposals.

## **VI. Award Administration**

### **A. Notice of Project Approval**

The proponent of the approved project shall be notified within one week upon approval of the Commission *en banc*.

### **B. Execution of RFA**

Upon approval of the projects for implementation by participating HEIs, a Research Funding Agreement (RFA) is executed between and among the CHED, the Philippine HEI and the collaborating California-based HEI based on the templates approved by the CEB.

### **C. Notice to Proceed**

1. The Notice to Proceed (NTP) will be issued upon the completion of the Research Funding Agreement (RFA).
2. Approved projects must start within the period indicated in the NTP, in consultation with the project proponent but not later than thirty days upon receipt of the funds.

### **D. Reporting Requirement and Release of Funds**

Technical or milestone project reporting is done separately for each RFA. For both California and Philippine institutions, a semi-annual financial and technical report is required. Funds for California-based institutions shall be released upon submission and approval of milestone reports. For multi-year projects, a year-end report summarizing technical progress, planned activities for the next year and summary of expenditures is required. A terminal report shall be submitted within sixty (60) calendar days after the completion of the project. All reports should compare work progress and funds commitments/expenditures against planned activities and projected financial budgets. PCARI shall provide the templates for the required reporting documents.

## **VII. PCARI Contact**

For further inquiries, the applicant may contact PCARI at (632) 352-5591 and (632) 376-1758 or email at [proposals.pcariproject@ched.gov.ph](mailto:proposals.pcariproject@ched.gov.ph).