

# PCIEERD 11th Anniversary

***THEME: From Labs to Lives: Building R&D  
Capacities and Opportunities  
for Sustainable Recovery***

INSPIRATIONAL MESSAGE  
PROF. FORTUNATO T. DE LA PEÑA  
Secretary, Department of Science and Technology

29 June 2021 | 9:00 AM



Department of Science and Technology

[illegible]



*Work towards uncovering  
the truth in the world*

*Help us understand the  
way the world works in  
very specific ways*



*Work on projects and  
initiatives aimed towards  
development or the  
betterment of our lives*

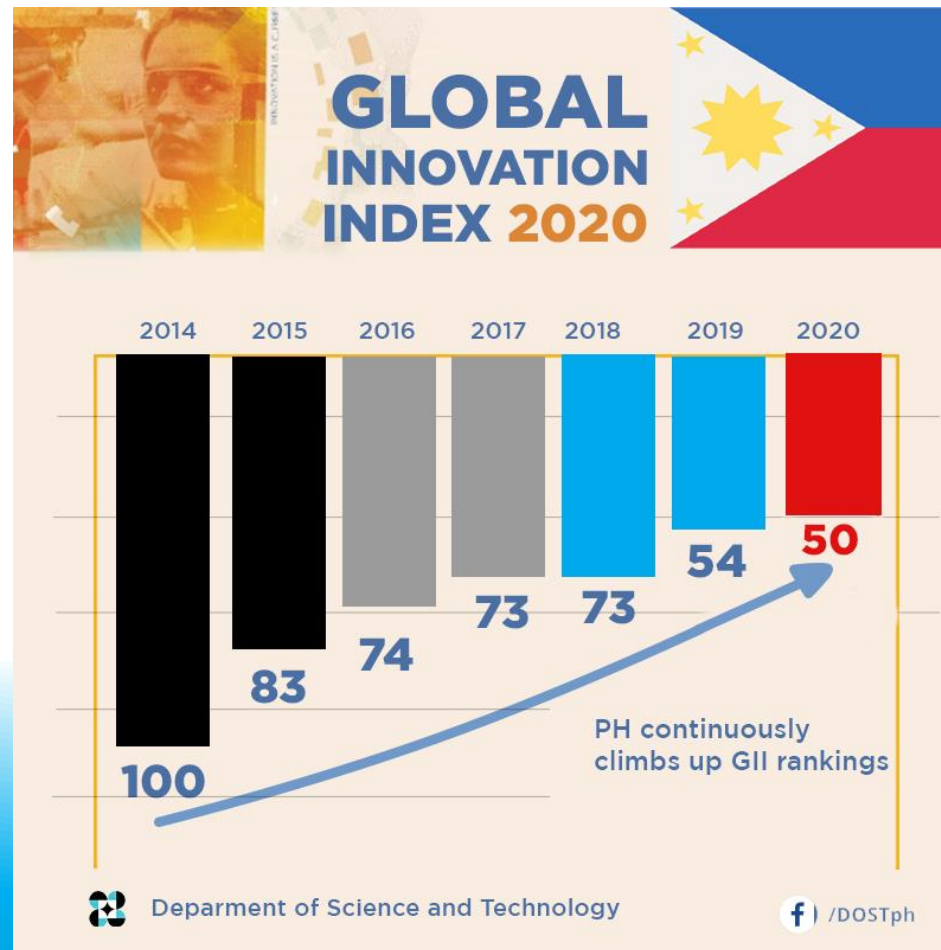
*Find ways to solve pressing  
problems in our communities*

*Aid leaders in choosing  
the best decisions for  
their people*



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# UNESCO & Global Innovation Index



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# Developing PH's S&T Human Resource Pool

**496 students**  
**(436 undergraduate,**  
**47 MS, and 13 PhD)**  
were granted with  
scholarship under  
***Bangon Marawi***  
***Program in S&T Human***  
***Resource***  
***Development from***  
***2017 to 2020***

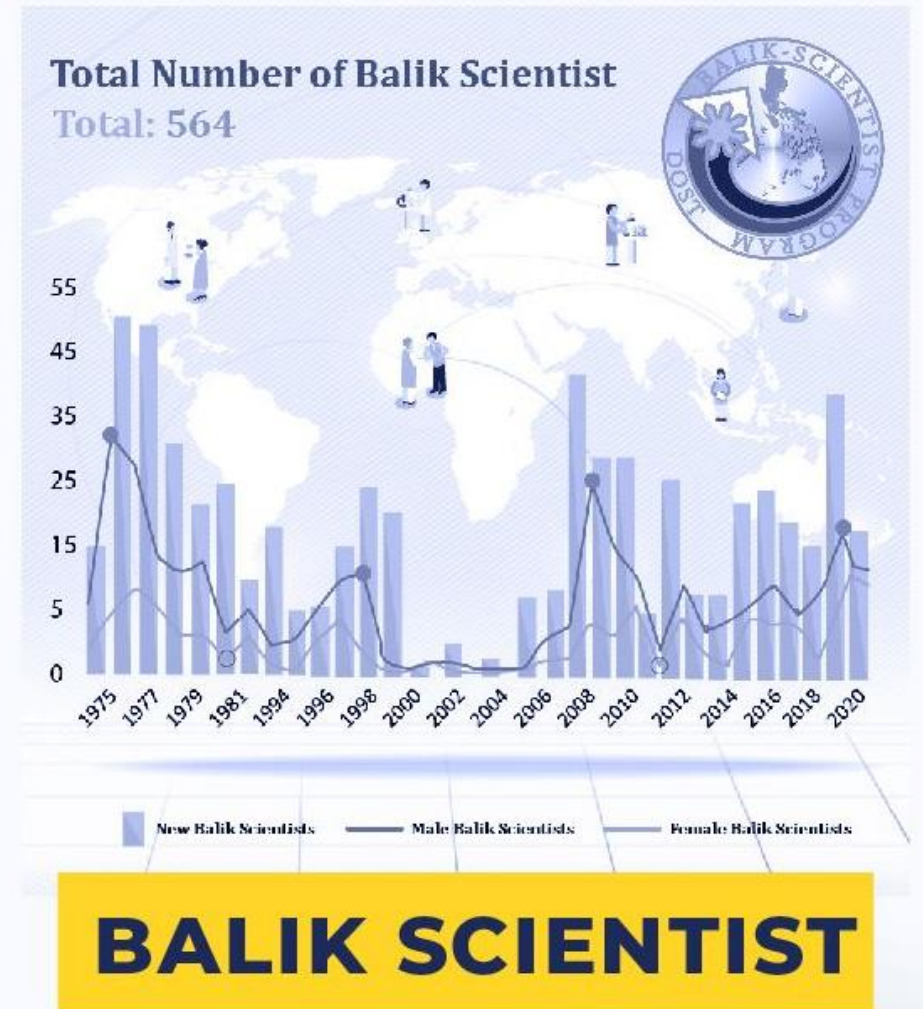
## DOST S&T SCHOLARSHIP PROGRAM

School Year	PSHS Scholars	Undergraduate Scholars	MS Scholars	PhD Scholars	TOTAL Scholars
2017-2018	7,882	19,058	2,832	893	30,665
2018-2019	8,321	23,531	3,632	1,270	36,754
2019-2020	8,864	27,485	4,278	1,563	42,190
2020-2021	9,319	30,039	4,557	1,640	45,555
2021-2022 (target)	9,612	36,452	4,503	2,379	52,946

# Pursuing Growth in the Regions through S&T

From 2017 to May 2021, **163 Balik Scientist** engagements were approved, with the following breakdown:

2017	36	2020	34
2018	27	2021	9
2019	57	Jan-May 2021	



# PH as an Innovation Hub for Human Resource and Institution Development

## Human Resource Development Program (HRDP)

**225**

Filipinos Supported



Research Attachment



Presentation of Scientific Outputs in Conferences, Symposia, Fora and Seminars



Visiting Expert Program



Laboratory and Research Equipment Grant



Conduct of Conferences, Seminars and Workshops



Balik Saliksik



Publication of Scientific or Research Papers in Scientific or Technical Journals

## Young Innovators Program (YIP)

**20**

Student Teams Supported

## Institution Development Program (IDP)

**23**

Laboratories Assisted

**₱125.1M**

Investment

## Balik Scientists Program (BSP)

**32**

Balik Scientists under PCIEERD under the sectoral coverage

Smarter Philippines through Data Analytics Research and Development, Training and Adoption

**₱52M**

project cost

**25,499**

Project SPARTA scholars



# HRDP Fund Award Information

HRDP	Stipend/Living Allowance	Tuition &/ Registration Fees	Honoraria	Medical Insurance	Transportation Expenses	Lab Fee, Equipment Rental, testing consumables, printing expenses	Supplies & Materials for Training	Printing Expenses	Communication Expenses	Subscription Expenses	Incidental Expenses	Accommodation
Visiting Expert	N/A	N/A	10,000/day (Foreign); varies for Local	N/A	Actual	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Research Attachment	Living allowance (for Foreign); 15,000 (BS student), 20,000 (MS student), 28,000 (PhD student), 35,000 (PhD) For Local	Actual	8,800/mo/ grantee	covered	Actual with Travel Insurance	BS student - ≤500,000 MS student - ≤700,000 PhD student - ≤900,000 PhD degree holder - ≤1,000,000	N/A	N/A	N/A	N/A	≤10,000	N/A
Laboratory and Equipment Research Grant	N/A	N/A	N/A	N/A	N/A	≤ 250,000	N/A	N/A	N/A	N/A	N/A	N/A
Presentation of Scientific Outputs in Conferences, Symposia, Fora, Seminars	covered	Actual	N/A	N/A	Actual	N/A	N/A	N/A	N/A	N/A	≤10,000	N/A
Publication of Scientific/Research Papers in Scientific/Technical Journals	N/A	Actual	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Conduct of Seminars, Conferences, Workshops	N/A	N/A	TOR required		≤10,000/ person	N/A	covered	covered	covered	covered	N/A	≤5,000/night



# DOST Grantee Benefits

Maximum grant of <b>Php 500,000</b> for <b>conduct of training and full coverage of training fee, travel expenses and daily subsistence allowance</b> for training attendance	RIEETOOL
<b>Research grant</b>	Balik Saliksik
Actual tuition and other school fees, monthly stipend, book, transportation and thesis allowance, graduation fees and a maximum research grant up to <b>Php 500,000</b>	PROSPPER
Maximum of <b>P1,000,000</b> Grant for Small R&D Opportunity for Regional Consortia	<b>Regional Consortia R&amp;D Program</b> for new researchers and institutions in the Region

For full details, visit: <https://pcieerd.dost.gov.ph/e-forms/call-for-proposal-forms>

# R&D Leadership Program (RDLead)

Engage R&D experts to lead in Strengthening the research capabilities of the HEIs and RDIs

## ROLE of the RD Leader

### LEAD

- in establishing and/or upgrading NICERs/RDIs

### TRAIN

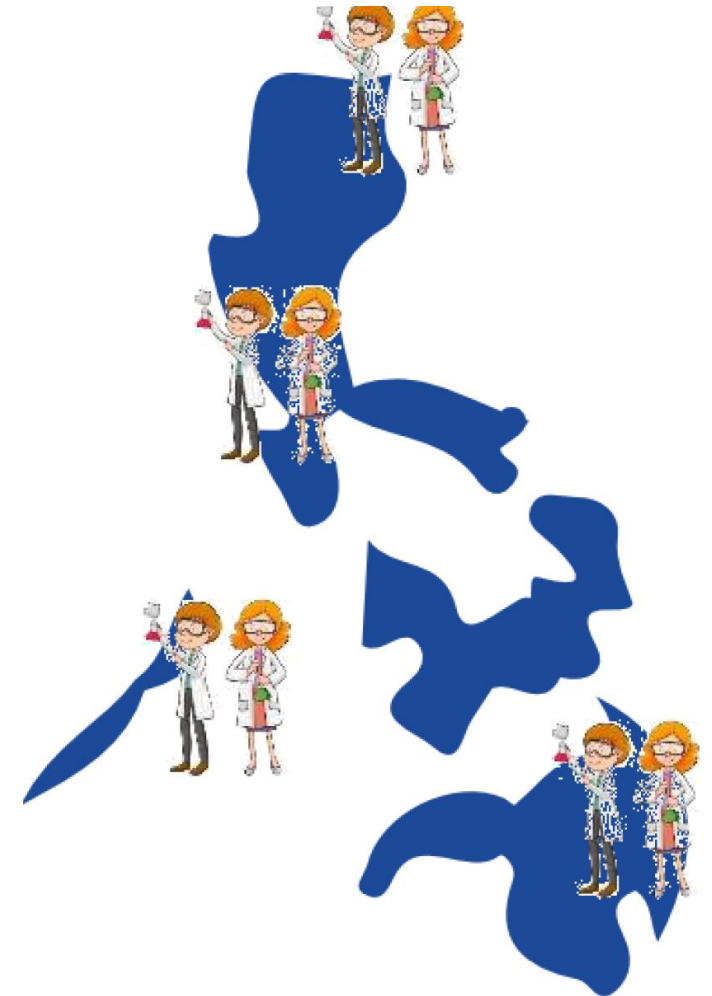
- and capacitate local researchers, scientist, and engineers

### PROVIDE

- policy recommendations

### DEVELOP

- and/or update manuals, protocols, and modules



# Smarter Philippines Through R&D, Training and Adoption

Program title: Good Governance through Data Science and Decision Support System

Project title: Smarter Philippines through R&D, Training and Adoption

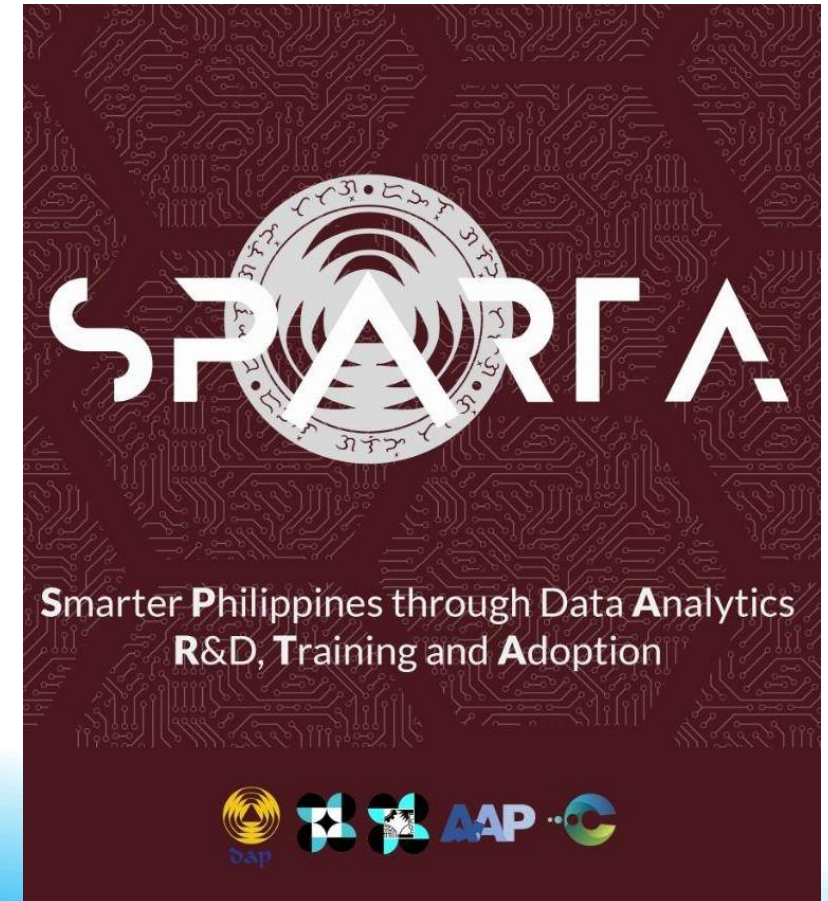
Project leader: Dr. Alan Cajés

Implementing agency: Development Academy of the Philippines

Project duration: November 2019-November 2022 (36 months)

Total budget: PHP52.2 million

**Project SPARTA** seeks to train 30,000 data scientists in the Philippines through online education, research and development mechanisms and infrastructure



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# STAMINA4Space Program

Program leader: Dr. Maricor N. Soriano (new)

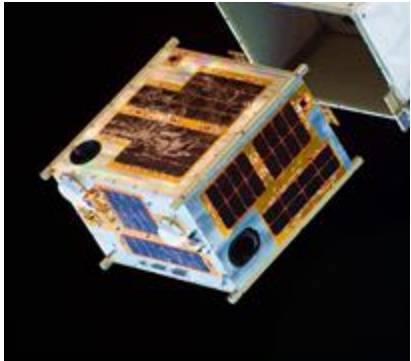
Dr. Gay Jane P. Perez (former)

Dr. Joel Joseph S. Marciano, Jr. (former)

Implementing agency: University of the Philippines Diliman (UP EEI, UP NIP, UP TCAGP and UP IESM) and DOST-ASTI

Project duration: August 2018 - January 2022 (48 months)

Total budget: PHP866 million



## *Number of Filipino Scholars*

**8**

graduate  
students

**3**

PhD  
students

**2**

MS  
students



# Advanced Mechatronics, Robotics, and Industrial Automation Laboratory (AMERIAL)

Project title: Advanced Mechatronics, Robotics, and Industrial Automation Laboratory  
Implementing agency: DOST-Metals Industry Research Development Center (MIRDC)  
Project leader: Engr. Robert O. Dixon  
Project duration: Three (3) years



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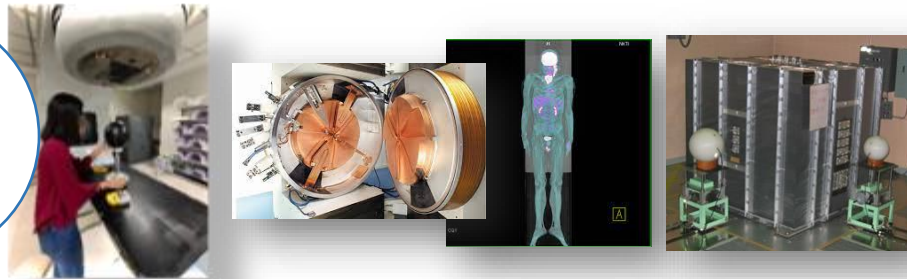
# Low-dose Uniform Neutron Irradiation System (LUNIS)

## LUNIS Applications and Benefits

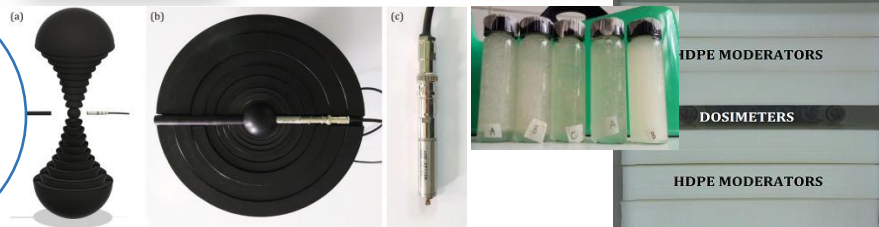
### 1 Education & Training



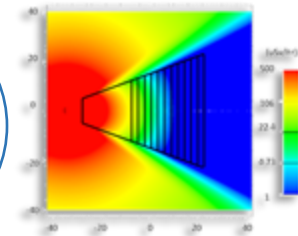
### 2 Neutron Dosimetry



### 3 Detector Design



### 4 Low Flux Irradiation



### 5 Neutron Activation Analysis





# Establishment of the Philippine Institute for Integrated Circuits





