



Republic of the Philippines
BATANGAS STATE UNIVERSITY

The National Engineering University

Rizal Avenue Ext., Batangas City, Batangas, Philippines 4200

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Office of the Research Director

List of Monitored Research Projects/Programs under respective areas (QO6)

Third Quarter 2024
(July to September)

Source of Fund	Completed	Ongoing
Institutional	3	44
External	4	11
Subtotal	7	55
TOTAL	62	



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Office of the Research Director

COMPLETED RESEARCH PROJECTS 2024
 (Third Quarter)

INSTITUTIONALLY-FUNDED

No.	Title	Proponent/s	Approved Budget (Php)	Beneficiary (Partner Industry/ Community/ Fund Source)	Approved Duration	Actual Month of Completion
INTEGRATED BASIC AND APPLIED RESEARCH (IBAR)						
1.	Causal Factors of Low Civil Service Examination Passing Rate in Batangas Province	Jennifer Manalo Cueto Noreen G. Baxa Lovilet C. Molo Sandy M. Gonzales	165,000.00	Batangas State University Lemery Campus	January 23, 2023 to January 22, 2024 Approved Extension: January 23, 2024 to July 30, 2024	July 29, 2024
AGRICULTURE, AQUATIC AND NATURAL RESOURCES RESEARCH (AANRR)						
2.	Carabao Mango Fruit Drop Prediction using CNN Image Classification in Drone Vision System	Romeo A. Concepcion Froilan G. Destreza Melvinn B. Roxas Alfredo V. Atienza Jr.	166,000.00	Batangas State University ARASOF-Nasugbu Campus	January 23, 2023 to January 22, 2024	September 10, 2024
3.	Seaweed Beds as Transition Habitat for Coral Reef Fishes (SeaBaTH)	Jonel Corral Jovy Ann Valera Najeen Arabelle Rula Jayvee A. Saco Romel U. Briones Miguel Enrique Ma. A. Azcuna	350,000.00	Batangas State University Lobo Campus	August 17, 2020 to July 16, 2021 Approved Extension: July 17, 2021 to October 31, 2021 Extension: December 29, 2022	July 3, 2024



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COMPLETED RESEARCH PROJECTS 2024
 (Third Quarter)

EXTERNALLY-FUNDED

No.	Title	Proponent/s	Approved Budget (Php)	Beneficiary (Partner Industry/ Community/ Fund Source)	Approved Duration	Actual Month of Completion
INTEGRATED BASIC AND APPLIED RESEARCH (IBAR)						
4.	Regional Agri-Aqua Innovation System Enhancement (RAISE) Program in Southern Tagalog Project 1E. Enhancing the Intellectual Property and Technology Business Management (IP-TBM) in Batangas State University	Leandro A. Dalhag Albertson D. Amante Ivy Fides R. Perez	1,601,030.00	Department of Science and Technology-Philippine Council for Agriculture, Aquatic and Natural Resources Research and Development (DOST – PCAARRD)	January 1, 2022 to December 31, 2023	September 26, 2024
INDUSTRY, ENERGY AND EMERGING TECHNOLOGY RESEARCH (IEETR)						
5.	DOST-CRADLE funding of BatStateU entitled: ATLANTIS: An IoT-Based Artificial Intelligence Aquaponic Control and Monitoring System for Aquaponics Greenhouse	Anton Louise De Ocampo Francis Jesmar Montalbo John Carlo Aggari Alvin S. Alon	4,999,371.60 1 st year: 2,879,620.00 2 nd year: 2,119,751.60	Department of Science and Technology-Philippine Council for Agriculture, Aquatic and Natural Resources Research and Development (DOST – PCAARRD)	May 1, 2022 to April 30, 2024	September 26, 2024



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No.	Title	Proponent/s	Approved Budget (Php)	Beneficiary (Partner Industry/ Community/ Fund Source)	Approved Duration	Actual Month of Completion
6.	Boatbox: Cost-Effective Tracking and Distress Message Sending System for Local Small Fishing Vessels (SFV)	Froilan G. Destreza Romeo A. Concepcion Jr. Melvinn B. Roxas Lorissa Joana E. Buenas Alfredo V. Atienza Jr.	1,181,401.70	Department of Science and Technology Regional Office No. 4A (CALABARZON)	July 2022 to July 2023 Extension: March 2023 to March 2024	September 30, 2024
7.	Development and evaluation of Wireless Power Transmission (WPT) for Mobile Phones	Froilan G. Destreza Melvinn B. Roxas Alfredo V. Atienza Jr. Romeo A. Concepcion Jr.	749,375.00	Department of Science and Technology Regional Office No. 4A (CALABARZON)	July 2022 to July 2023	September 30, 2024



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ONGOING RESEARCH PROJECTS 2024

(As of September 30, 2024)

INSTITUTIONALLY-FUNDED

No.	Title	Proponent/s	Approved Budget (Php)	Beneficiary (Partner Industry/ Community/ Fund Source)	Approved Duration
INTEGRATED BASIC AND APPLIED RESEARCH (IBAR)					
1.	Communicating the History of Batangas State University TNEU, Lipa Campus	Vanessah V. Castillo Berna Grace Adame-Padua Yolanda L. Pasia	130,460.00	Batangas State University Lipa Campus LREC	August 27, 2024 to August 26, 2025
2.	Assessing the Knowledge and Utilization of FinTech Services by SMEs in Batangas Province	Monette Soquiat Rey Anthony N. Abing Madel L. Lumbea	84,460.00	Batangas State University Lipa Campus LREC	August 27, 2024 to August 26, 2025
3.	Perception of the Quality of Life After Retirement at Batangas State University - The National Engineering University: Basis for Retirement Plans	Israel P. Peñero Belen E. Bagui Therezia Conti	71,390.00	Batangas State University Alangilan Campus LREC	January 29, 2024 to January 28, 2025
4.	An Intelligent Decision Support System for Gender and Development Office Using Latent Semantic Indexing and Cosine Similarity	Lovely Rose T. Hernandez Jeleen Mangubat Ryndel V. Amorado Jennifer L. Marasigan	147,027.00	Batangas State University Alangilan Campus LREC	January 29, 2024 to January 28, 2025
5.	A Phenomenological Approach on the Adjustment of BIT Female Graduates of BatStateU Alangilan on Job Mismatch	Jocelyn C. Banaybanay Irenea T. Diaz	149,490.00	Batangas State University Alangilan Campus {Balayan} LREC	January 29, 2024 to January 28, 2025



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6.	Public Elementary Pupils' Gender Perspective on Lesbian, Gay, Bisexual, Transgender, Queer, Intersexual, Asexual Plus (LGBTQIA+) Members	Israel P. Peñero Sherry Joy A. Del Mundo Michelle M. Del Rosario Lucille D. Evangelista	50,000.00	Batangas State University Alangilan Campus LREC	January 29, 2024 to January 28, 2025
7.	FACULTY EXPERIENCE: AVP (Assessment, Verification and Presentation) FOR JC3	Dennis B. Legaspi Sharon G. Angulo Jovito P. Permante	39,600.00	Batangas State University Malvar Campus LREC	January 31, 2024 to January 30, 2025
8.	PARAISO-Based Pedagogy: Proactive songs As educational tools Reinforcing environmental Awareness Integration for Sustainable Outcomes.	Richard M. Bañez Rachelle Q. Braza Glenda M. Dimaano	35,860.00	Batangas State University Malvar Campus LREC	January 31, 2024 to January 30, 2025
9.	Assessment of the Socio-Economic Conditions of the Small-Scale Fisherfolks: Inputs for the Development of Sustainable Programs & Policies to Alleviate Marginalization (SPAM)	Jonas C. Villaveza Maria Luisa A. Valdez Gecil Jane R. Avena	68,000.00	Batangas State University ARASOF Nasugbu LREC	January 22, 2024- January 21, 2025
10.	Empowering K-12 Teachers with MAXQDA; Developing a How-to Manual to Enhance Research Skills	Jose Alejandro R. Belen Maria Fe M. Bagon Angelito D. Bayungan Rodelio D. Pega Roy Kristian T. Villadelrey	123,600.00	Batangas State University ARASOF Nasugbu LREC	January 22, 2024- January 21, 2025
11.	Inclusion of SOGIESC in Job Searching: Impact on LGBTQ BatStateU Graduates (2018-2022) as Input to GAD Programs	Sherilyn D. Macaraig Minelyn P. Cochingco Cherry U. Banta	137,050.00	Batangas State University ARASOF Nasugbu LREC	January 22, 2024- October 21, 2024



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12.	ACCESS Project: Advancing Campus Culture for Equity and Student Success Empowering Diverse Student Groups in Higher Education at Batangas State University Pablo Borbon	Myra A. Bersoto Mary Joy V. Manigbas Rhia P. Perez Daryl M. Magpantay	67,300.00	Batangas State University Rosario Campus LREC	January 1 to October 31, 2024
13.	The Mathematics of Carbon Dioxide Removal (MathCo2)	Daryl M. Magpantay Karen P. Nocum Jonjie M. Catibog	85,000.00	Batangas State University Pablo Borbon Campus	October 1, 2023 to September 30, 2024
14.	Optimization of Police Response through Mathematical Modeling	Jeffrey C. Arrieta Rhona A. Alog Daisyree S. Arrieta Karen P. Nocum Daryl M. Magpantay Jonjie M. Catibog	75,000.00	Batangas State University Pablo Borbon Campus	October 1, 2023 to March 31, 2025
15.	Cultural Mapping of Nasugbu, Batangas as Input to Sustainable Tourism Planning	Cherry D. Abeleda Marithel J. Tiangco Joseph Melo Thessa H. Noche Inocencio C. Madriaga Jr.	275,000.00	Batangas State University ARASOF-Nasugbu Campus	January 23, 2023 to January 22, 2024 Approved Extension: January 23, 2024 to December 29, 2024
16.	MSMEs Mapping: Mobilizing Resources for Business Chain	Luzviminda An Abacan Abigail C. Guico James Carlo M. Inandan Mories J. Guinto Dyzel D. Asi	95,500.00	Batangas State University Rosario Campus	January 23, 2023 to January 22, 2024 Approved Extension: January 23, 2024 to September 30, 2024



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AGRICULTURE, AQUATIC AND NATURAL RESOURCES RESEARCH (AANRR)					
17.	DNA barcoding of marine specimens collected in the Verde Island Passage (VIP)	Joshua M. Vacarizas Jayvee A. Saco Miguel Enrique Ma. A. Azcuna Enriquo Martin C. Velasquez	1,978,340.00	Batangas State University Central Administration	April 15, 2024 to October 14, 2025
18.	SoyDeSal Goals (SDG): Optimization of Local PanDeSal Utilizing Dried Okara Byproduct	Rinalyn G. Magtibay Maria Cecilia F. Ante Jennifer A. Basilan Jasmin M. Carlos	266,732.00	Batangas State University Malvar Campus	July 15, 2024 to July 14, 2025
19.	Mapping and Phenology of Threatened and Endemic Flora of Nalayag Monolith Ecotourism Site in Batangas Province along Verde Island Passage (VIP)	Romel U. Briones Ermark B. Abenir Herbert G. Bañados Jr. Mars G. Panganiban	409,000.00	Batangas State University Alangilan Campus	July 15, 2024 to January 14, 2026
20.	Unlocking the Riches: Exploring Resource Valuation and Tourists' Willingness to Pay for Sustainable Conservation of Monte Maria in Pagkilatan, Batangas	Angelica A. Macalalad Pelita C. Panganiban Leonna Marrien U. Asi Ericson Coracero	118,855.00	Batangas State University Pablo Borbon Campus	September 1, 2023 to August 31, 2024
21.	Pilot testing of <i>Halymenia durvillei</i> for sea-based farming in selected sites in Batangas Province	Jayvee A. Saco Enriquo Martin C. Velasquez Amor P. Magtibay	997,568.00	Batangas State University Central Administration	September 1, 2023 to August 31, 2024 Approved Extension September 1, 2024 to February 28, 2025



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22.	Isolation, Screening and Preservation of Oil-and-Plastic Degrading Bacteria: Towards a Sustainable Microbial Culture Collection for Environmentally Relevant Microorganism (SMEAR)	Amor P. Magtibay Abegail L. Gonzales Daniel Janick M. Razo	450,000.00	Batangas State University Pablo Borbon Campus	September 1, 2023 to February 28, 2025
23.	Coral Reef Assessment and Biodiversity Database of Marine Protected Areas of Nasugbu	Miguel Enrique Ma. A. Azcuna Jonel Corral Enriquo Martin C. Velasquez Karlo Pintor Inocencio Madriaga Jr.	360,000.00	Batangas State University Central Administration	September 1, 2023 to August 31, 2024
24.	Development of an Automatic Fish Feeder System for Backyard Tilapia Farming in Nasugbu, Batangas	Froilan G. Destreza Renz Mervin A. Salac Djoanna Marie V. Salac Melvinn B. Roxas	93,000.00	Batangas State University ARASOF-Nasugbu Campus	January 23, 2023 to January 22, 2024
INDUSTRY, ENERGY AND EMERGING TECHNOLOGY RESEARCH (IEETR)					
25.	Morphological Database and Quantification of Liberica Coffee Beans Using Machine Learning	Dioneces O. Alimoren Francis G. Balazon Jonah R. Melo Richelle M. Sulit Melmar D. Eje	113,960.00	Batangas State University Lipa Campus LREC	August 27, 2024 to August 26, 2025



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26.	Development of the Internship Learning Experience, Alumni, and Placement (ILEAP) Portal: A Web-based System using Job Matching Algorithm for the On-the-Job Training and Job Placement Offices of Batangas State University	Philip D. Geneta Eufronia M. Magundayao Rexon S. Hernandez	134,750.00	Batangas State University Lipa Campus LREC	August 27, 2024 to November 26, 2025
27.	GIS Mapping and Forecasting Flow of Effluents in Major Creeks Surrounding the Taal Lake	Enrico M. Dalangin Jeffrey S. Sarmiento Jen Aldwayne B. Delmo Laila A. Contreras Anthony G. Hernandez Marvin S. Benedicto	875,963.20	Batangas State University Alangilan Campus	July 15, 2024 to July 14, 2025
28.	SINAG: Automated Maskless PCB Patterning using UV Light	Jefril M. Amboy Louie L. Villaverde Anton Louise P. De Ocampo Mirasol C. Dilay	737,680.00	Batangas State University Central Administration	July 15, 2024 to May 14, 2025
29.	VISION DRIVE: Vehicle Intelligent Speed Identification and Counting Observation Network Device using Real-Time Imaging Video Evaluation	Jen Aldwayne B. Delmo Cristina Amor M. Rosales Ria L. Castillo Jenelyn R. Delen Renz Raniel V. Serrano	149,490.00	Batangas State University Alangilan Campus LREC	January 29, 2024 to January 28, 2025



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30.	Biomimetic Design of Sound Absorbing Panel using Polyethylene Plastic Wastes and Bamboo Scraps	Rejie C. Magnaye Jermaine S. Magboo Maylen G. Eroa Norman M. Rivera Gil B. Barte	473,880.00	Batangas State University Central Administration	October 1, 2023 to September 31, 2024
31.	Design and Development of a Prototype Vehicle for Shell Eco-Marathon 2024	Gerald T. Aguila Ricmart V. Garbin Jaime D. Ascona	500,000.00	Batangas State University Alangilan Campus	September 1, 2023 to August 31, 2024
32.	Vignette: Cost-effective and Performant Application of AI/ML Technologies for Lie-streaming Entertainment	Poul Isaac De Chavez Princess Marie B. Melo Raymond Kit M. Rodriguez Guianne Marielle H. Maralit	300,000.00	Batangas State University Alangilan Campus	September 1, 2023 to December 31, 2024
33.	Point of Use Modified Candle Type Ceramic Water Filter for Water Purification towards Sustainable Development	Sicily B. Tiu Elisa D. Gutierrez Rhonalyn V. Maulion Jermaine S. Magboo Jerome L. Ramos	821,000.00	Batangas State University Alangilan Campus	January 23, 2023 to January 22, 2024 Approved Extension: January 23, 2024 to December 29, 2024
34.	CAMPUS Program: Comprehensive Assessment and Monitoring of Power and Other Utilities towards Sustainability Reliability and Sustainability Assessment of Water Utilization at BatStateU Alangilan	John Kevin M. De Castro Lovely C. Añonuevo Vivian D. Guda Annamarie A. Bicol	375,000.00	Batangas State University Alangilan Campus	January 31, 2022 to January 30, 2023



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No.	Title	Proponent/s	Approved Budget (Php)	Beneficiary (Partner Industry/ Community/ Fund Source)	Approved Duration
35.	Development and Characterization of Volcanic Ash Chitosan Composite Ceramic Membrane for potential application in treatment of Swine biogas digester effluent (VACCCM)	Rhonalyn V. Maulion Elisa D. Gutierrez Rejie C. Magnaye Sicily B. Tiu Reggie A. Dueñas	239,110.00	Batangas State University Alangilan Campus	August 16, 2021 to July 30, 2022 Extension: July 31, 2022 to March 31, 2023 Extension: Until December 31, 2023
36.	Design, Development, and Installation of Solar-Powered Isotropic Generator of Acoustic Waves with Water Level Monitoring Capacity for Batangas Province (SIGAW)	Albertson D. Amante Albert C. Villena Edcel E. Torralba Gina R. Eje John Vincent T. Vergara	1,378,560.00	Batangas State University Central Administration	October 1, 2023 to October 31, 2024
DISASTER RISK MANAGEMENT					
37.	CBMMS (Community-Based Monitoring and Mapping System) 2.0: Enhancing Disaster Preparedness in the Municipality of Mabini	Joshua C. Abella Sherry Joy A. Del Mundo John Robert D. Atienza	266,567.40	Batangas State University Alangilan Campus	July 15, 2024 to July 14, 2026
HEALTH RESEARCH					
38.	Analyzing the Psychological and Social Factors Influencing Rehabilitation Outcomes for Drug-Addicted Probationers in Batangas, Philippines	Myra Bersoto Ma. Lourdes G. Balita	69,960.00	Batangas State University Lipa Campus LREC	August 27, 2024 to August 26, 2025



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39.	Pre-Commercialization of Healthy and Innovative Peruvian Banana Snack (Phase I)	Marielli Katherine C. Untalan Emelie A. Ona Angelita Pagcaliwagan Ivy Fides R. Perez Reygan H. Sangalang	450,000.00	Batangas State University Central Administration	October 1, 2023 to March 31, 2025
40.	Development of a Health Education Module and Intervention Program on E-cigarette Use for College Students at BatStateU ARASOF	Aiziel Luz A. Duman Mildred M. Maligaya M. Althea O. Ila Kier Karlo G. Dela Luna	43,750.00	Batangas State University ARASOF Nasugbu	August 2024 to January 2025
41.	Transforming Education, Empowerment through Nurturing the Adolescents (TEEN) Project: “Implementation of Program for Teenage Pregnancy among Adolescents in Batangas Province”	Mary-Ann H. Briones Maria Theresa A. Hernandez Maria Christina E. Bay Rysheer P. Quiatchon Charmaine Rose I. Trivino	289,000.00	Batangas State University Pablo Borbon Campus	January 23, 2023 to July 22, 2024



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Institutionally-Funded Research Projects for Completion of Terminal Report

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INTEGRATED, BASIC AND APPLIED RESEARCH (IBAR)					
42.	Transportation Research for Assessment of its Network, Safety, Policy and Optimization (TRANSPO) Program Project 1A: Social Analysis on Traffic Administration (SATA)	Project 1A: Cristina Amor M. Rosales Jeffery Arrieta Albert M. Arcega	76,884.00	Batangas State University Central Administration	August 17, 2020 to July 16, 2021 Extension: May 31, 2023
AGRICULTURE, AQUATIC AND NATURAL RESOURCES RESEARCH (AANRR)					
43.	Health Benefits, Safety Assessment and Product Development of <i>Allaeanthus luzonicus</i> (Blanco) Fern.-Vill. (Himbabao) Male Flowers	Rosenda A. Bronce Rysheer P. Quiatchon Marielli Katherine C. Untalan Rochelle Anne S. Quinia	250,000.00	Batangas State University Central Administration	January 23, 2023 to January 22, 2024 Approved Extension: January 23, 2024 to July 30, 2024
44.	Physicochemical Characterization and Fatty Acid Profiling of Coconut Milk Preparations using Different Coconut Varieties in CALABARZON Region	Anita Aquino Emelie A. Ona	480,000.00	Batangas State University Central Administration	October 18, 2021 to September 30, 2022 Extension: Until September 30, 2023



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ONGOING RESEARCH PROJECTS 2024
 (As of September 30, 2024)

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INTEGRATED, BASIC AND APPLIED RESEARCH (IBAR)					
45.	Exploring Community Perception, Expectations Quality of Service, and Brand Identity of Police Officers in Batangas Province	Expedito V. Acorda Jeffery Arrieta Daisyree Arrieta Rhona Alog Angelo C. Panilagan	500,790.00	Philippine National Police	July 2024 to September 2024
46.	Local Economic Development and Competitiveness Index for Cities and Municipalities (CMCI) 2024	Aquino M. De la Peña Dyzel D. Asi Rosalinda M. Comia Abigail C. Guico James Carlo M. Inandan Mories J. Guinto	100,000.00	Department of Trade and Industry-Region IVA	April 2024 to December 2024
47.	Impact Evaluation of the Public-Private Partnership for School Infrastructure Project Phase 1 Package C (CALABARZON)	Gemar G. Perez Joel B. Bacay Cristina Amor M. Rosales Jennifer Buenviaje-Atienza	169,800.00	National Economic Development Authority (NEDA)	April 17, 2024 to October 16, 2024



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48.	2024 SIDC Feedmill Customer Satisfaction and Poverty Index Report	Gemar G. Perez Irene H. Maralit Katherine T. Arellano	524,493.00	Sorosoro Ibaba Development Cooperative (SIDC)	February 1, 2024 to July 31, 2024
AGRICULTURE, AQUATIC AND NATURAL RESOURCES RESEARCH (AANRR)					
49.	BARACO- Batangas Animal Movement Reporting Approach to Control Diseases	Rowell Hernandez Lloyd H. Macatangay Anton Louise P. de Ocampo Raymond Kit H. Rodriguez Arjonel M. Mendoza	-	Provincial Government of Batangas	May 27, 2024 to December 31, 2024
50.	Stock Assessment and Reproductive Biology of Siganids in Calatagan, Batangas: Inputs to Species Management Plan	Jonel M. Corral Miguel Enrique Ma. A. Azcuna Christopher A. Fernandez	4,995,136.00 1 st Year- 2,821,068.00	Department of Science and Technology- Philippine Council for Agriculture, Aquatic and Natural Resources Research and Development (DOST – PCAARRD)	March 1, 2024 to February 28, 2026
INDUSTRY, ENERGY AND EMERGING TECHNOLOGY RESEARCH (IEETR)					
51.	Upgrading the BatStateU Analytical Research Center Laboratory to a Third Party Laboratory for the Bioethanol Industries	Anita P. Aquino Rosenda A. Bronce	10,000,000.00	Sugar Regulatory Administration	February 21, 2024 to February 20, 2026



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No.	Title	Proponent/s	Approved Budget (Php)	Beneficiary (Partner Industry/ Community/ Fund Source)	Approved Duration
52.	BIOMS: Bioethanol Online and Integrated System	Rowell M. Hernandez Alex I. Magboo Ryndel V. Amorado Lanie P. Palad John Robert D. Atienza	6,528,348.00	Sugar Regulatory Administration	February 21, 2024 to February 20, 2025
53.	ParallaxED: A Commercial-Ready Prototype of an Engineering Simulation System Using Mixed Reality	Albertson D. Amante Louie Villaverde Jecamarie Pasay Bryan A. Magoling	2,518,284.00	Department of Science and Technology-Technology Application and Promotion Institute (DOST-TAPI)	August 1, 2023 to July 30, 2024
54.	Program Title: Higher Education Institution Readiness for Innovation and Technopreneurship - Regional Startup Enablers for Ecosystem Development (HEIRIT-ReSEED) Project Title: Scaling Up the Innovation CONSortium of South Luzon (ICONS South Luzon)	John Richard M. Esguerra Jecamarie V. Pasay Michael C. Lagaya Maylen C. Eroa	2,423,552.00	Department of Science and Technology- Philippine Council for Industry, Energy and Emerging Technology Research and Development (DOST – PCIEERD)	August 1, 2023 - July 3, 2025



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Externally-Funded Research Projects for Completion of Terminal Report

No.	Title	Proponent/s	Approved Budget (Php)	Beneficiary (Partner Industry/ Community/ Fund Source)	Approved Duration
55.	Fabrication of Commercial-Ready Prototype of the Collapsible Solar Power Station for Farms	Anton Louise de Ocampo Melmar Eje	2,743,807.50	Department of Science and Technology-Technology Application and Promotion Institute (DOST-TAPI)	August 3, 2023 to August 2, 2024

Prepared by:

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