



Office of the Research Director

COMPLETED RESEARCH PROJECTS 2023

(As of September 30, 2023)

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. | TeachQueerLit: Gender Diversity Consciousness through the Integrative Teaching of Queer Literature in Higher Education | Richard M. Bañez Aimee M. Guia | 53,000.00 | Batangas State University Malvar Campus | January 23, 2023 to June 22, 2023 | September 2023 |
| AGRICULTURE, AQUATIC AND NATURAL RESOURCES RESEARCH (AANRR) | | | | | | |
| 2. | Program Title: Valuing Effective Re-engineering Mechanism for Improved Productivity (VERMI) Project 1: Characterization of Vermicomposting Product of Kahariam Farm: Input for Process Re-Engineering | John Kevin M. De Castro Manilyn V. Calapatia Julie Pearl F. Marasigan Roxanne R. Navarro | 30,000.00 | Batangas State University Alangilan Campus | August 16, 2021 to December 29, 2021 | August 2023 |





Propelling Transformations and Accelerating Reforms for National Development

Office of the Research Director

| No. | Title | Proponent/s | Approved Budget (Php) | Beneficiary (Partner Industry/ Community/ Fund Source) | Approved Duration | Actual Month of Completion |
|------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------|-----------------------|--------------------------------------------------------|-----------------------------------------------------------------------------------------------------------|----------------------------|
| INDUSTRY, ENERGY AND EMERGING TECHNOLOGY RESEARCH (IEETR) | | | | | | |
| 3. | ACTApp: A Contact Tracing and Monitoring App with Exposure Notifications using Wi-fi and GPSs | Shiela Marie G. Garcia Joseph Rizalde Guillo Rosana C. Lat Lloyd Macatangay | 223,000.00 | Batangas State University Malvar Campus | January 31, 2022 to January 30, 2023 | July 2023 |
| 4. | Development of Accreditation Document Management System Utilizing Tagging and Analysis for Efficient File Organization and Sharing for BatStateU ARASOF-Nasugbu | Renz Mervin A. Salac Djoanna Marie V. Salac Benjie R. Samonte Albert S. Mercado | 50,000.00 | Batangas State University ARASOF Nasugbu Campus | January 31, 2022 to January 30, 2023 Approved extension: February 1, 2023 to May 31, 2023 | July 2023 |
| Sub-total | | | 356,000.00 | | | |





Office of the Research Director

COMPLETED RESEARCH PROJECTS 2023

(As of September 30, 2023)

EXTERNALLY-FUNDED

| No. | Title | Proponent/s | Approved Budget (Php) | Beneficiary (Partner Industry/ Community/ Fund Source) | Approved Duration | Actual Month of Completion |
|------------------------------------------------------------------|--------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------|-----------------------|--------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------|
| INDUSTRY, ENERGY AND EMERGING TECHNOLOGY RESEARCH (IEETR) | | | | | | |
| 5. | Development of a Liner-Enhanced Curing Vessel for Salted Egg Production for Eggciting Traditions | Allan De Villa Rhonalyn Maulion Gerald Aguila Mary Rose F. Persincula | 4,962,400.00 | Department of Science and Technology – Philippine Council for Industry, Energy and Emerging Technology Research and Development (DOST – PCIEERD) | February 15, 2021 to February 14, 2022 1 st Extension: February 15, 2022 to November 14, 2022 2 nd Extension: November 15, 2022 to February 14, 2023 | September 2023 |





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| 6. | Strengthening Operation of Regional Inclusive Innovation Center (RIIC) in CALABARZON Project Component 1: Innovation for Business Recovery (Non-coffee Sector) | John Richard M. Esguerra Albertson D. Amante Jecamarie V. Pasay Project Component 1: Gemar Perez Michael Lagaya Leslie Calcetas Guianne Marielle Maralit | 717,257.60 | Department of Science and Technology Regional Office No. 4A (CALABARZON) | October 1, 2021 to September 30, 2022 August 15, 2022 to April 30, 2023 | August 2023 |
| 7. | Strengthening Operation of Regional Inclusive Innovation Center (RIIC) in CALABARZON Project Component 2: Innovation for Business Recovery (Coffee Sector) | John Richard M. Esguerra Albertson D. Amante Jecamarie V. Pasay Project Component 2: Marielli Katherine C. Untalan Princess Marie Melo Jayson Reyes Romeo Jousef Laxamana | 717,257.60 | Department of Science and Technology Regional Office No. 4A (CALABARZON) | October 1, 2021 to September 30, 2022 August 15, 2022 to April 30, 2023 | August 2023 |





Office of the Research Director

ONGOING RESEARCH PROJECTS 2023
(As of September 30, 2023)

INSTITUTIONALLY-FUNDED

| No. | Title | Proponent/s | Approved Budget (Php) | Beneficiary (Partner Industry/ Community/ Fund Source) | Approved Duration |
|------------------------------------------------------|-----------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------|-----------------------|--------------------------------------------------------|-----------------------------------------|
| INTEGRATED, BASIC AND APPLIED RESEARCH (IBAR) | | | | | |
| 1. | 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 |
| 2. | Causal Factors of Low Civil Service Examination Passing Rate in Batangas Province | Jennifer Manalo Cueto Elaine Noreen G. Baxa Lovilet C. Molo Sandy M. Gonzales | 165,000.00 | Batangas State University Pablo Borbon Campus | January 23, 2023 to January 22, 2024 |
| 3. | 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 |





Propelling Transformations and Accelerating Reforms for National Development

Office of the Research Director

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| 4. | Tech-Based Interactive e-Module (TBIEM): A Flexible Learning Material in Organic Chemistry | Baby Lileth A. Rosales Nerrie E. Malaluan Francis G. Balazon Dioneces Alimoren | 121,000.00 | Batangas State University Lipa Campus | January 23, 2023 to January 22, 2024 |
| 5. | Development of Customized Needs Assessment and Profiling Tools for BatStateU Extension Service | Vaberlie Mandane-Garcia Benedict O. Medina Kristia Lei M. Reyes Jaika Almira R. Agena | 120,000.00 | Batangas State University Pablo Borbon Campus | January 31, 2022 to January 30, 2023 |
| 6. | Program Title: Research Program to Innovate Social Sciences and Education for the Challenges of Industry 4.0 Project Component D. Establishment of BatStateU Lobo Academic Laboratory vis-avis Agribusiness Hub: An Entrepreneurial Harvesting (Establishment of BatStateU Lobo-ALAH EH) | Gemar G. Perez Luzviminda Abacan Joanne Camille Verdadero April M. Perez Leonna Marrienne U. Asi Katherine T. Arellano Jennifer M. Perez Mary Grace T. Mandane Amor I. Ilagan Melmar Eje Albertson D. Amante Antonio A. Gamboa | 65,658.00 | Batangas State University Pablo Borbon Campus | August 17, 2020 to July 16, 2021 Extension: January 2020 to December 2020 Extension: January 2023 to June 2023 |





Propelling Transformations and Accelerating Reforms for National Development

Office of the Research Director

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| 7. | Impact Assessment of Adopt-A-Barangay Program of Batangas State University | Maria Theresa A. Hernandez Armando V. Mendoza Jr. Nickie Boy A. Manalo Realiza M. Mame Alvin R. De Silva Vanessah V. Castillo Romeo Guillo Teodorica Ani Roldan Ragot Gemar Perez Dianne S. Cullar | 370,000.00 | Batangas State University Pablo Borbon Campus | August 2018 to April 2021 For completion of Terminal Report |
| AGRICULTURE, AQUATIC AND NATURAL RESOURCES RESEARCH (AANRR) | | | | | |
| 8. | 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 Anita P. Aquino | 997,568.00 | Batangas State University Central Administration | September 1, 2023 to August 31, 2024 |
| 9. | 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 |





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| 10. | 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 | 360,000.00 | Batangas State University ARASOF-Nasugbu Campus | September 1, 2023 to August 31, 2024 |
| 11. | 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. Thessa H. Noche | 166,000.00 | Batangas State University ARASOF-Nasugbu Campus | January 23, 2023 to January 22, 2024 |
| 12. | 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 |
| 13. | 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 |





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| 14. | 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 Pablo Borbon Campus | October 18, 2021 to September 30, 2022 Extension: Until September 30, 2023 |
| 15. | Program Title: FIC 4VIP Project Component B. Development and Acceptability of Multispecies Seaweed Chips | Mark Anthony C. Lat Marielli Katherine C. Untalan Juliana Kassandra P. Rodil Ma. Jesukristina M. Lumanglas | 200,000.00 | Batangas State University Central Administration | January 2020 to December 2020 |
| 16. | Development of "Green" Pasta from Saba, Kangkong and Malunggay | Maylen G. Eroa Glenda de Mesa Nenita G. Hornilla | 300,000.00 | Batangas State University Alangilan Campus | August 2018 to December 2019 |
| INDUSTRY, ENERGY AND EMERGING TECHNOLOGY RESEARCH (IEETR) | | | | | |
| 17. | 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 | 473,880.00 | Batangas State University Alangilan Campus | October 1, 2023 to September 31, 2024 |





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| 18. | Design and Development of a Prototype Vehicle for Shell Eco-Marathon 2024 | Gerald T. Aguila Ricmart V. Garbin Jaime D. Ascona Rafael Aedrianne Marasigan Edgardo Titus Kaalim Jr. | 500,000.00 | Batangas State University Alangilan Campus | September 1, 2023 to August 31, 2024 |
| 19. | 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 |
| 20. | 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 |
| 21. | Response and Engage Directly (RED): Batangas State University Website Personal Assistant using Chatbot Application | Shiela Marie G. Garcia Melvin Babol Joseph Rizalde E. Guillo Johnrey N. Manzanal Jonel Naquita | 138,500.00 | Batangas State University Malvar Campus | January 23, 2023 to January 22, 2024 |





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| 22. | Development of Civic Engagement Platform (CiviCall App) for Students of Batangas State University System | Mary Ann C. Abril Glenda Dimaano Francisco V. Aguirre Melvin Babol Johnrey Manzanal | 130,000.00 | Batangas State University Malvar Campus | January 23, 2023 to January 22, 2024 |
| 23. | 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 |
| 24. | CAMPUS Program: Comprehensive Assessment and Monitoring of Power and Other Utilities towards Sustainability Reliability and Sustainability of the Electrical Distribution System of BatStateU Alangilan | Reynato A. Gamboa Elenor M. Reyes Ricmart V. Garbin Marjorie G. Marcaida Jenica Ariane C. Panaligan | 200,000.00 | Batangas State University Alangilan Campus | January 31, 2022 to January 30, 2023 Approved Extension: Until October 31, 2023 |





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| 25. | CAMPUS Program: Comprehensive Assessment and Monitoring of Power and Other Utilities towards Sustainability Effectiveness of an ICT Infrastructure Utilization in BatStateU-Alangilan for Sustainable Development | Gil B. Barte Jeffrey S. Sarmiento Jen Aldwayne B. Delmo Alex I. Magboo Renz Raniel Serrano | 164,000.00 | Batangas State University Alangilan Campus | January 31, 2022 to January 30, 2023 |
| 26. | BATIS: BatStateU Alumni Tracer Information System with Geospatial Mapping and Data Analysis | Lorissa Joana E. Buenas Noelyn M. De Jesus Lorenjane E. Balan Inocencio C. Madriaga Jr. | 100,000.00 | Batangas State University ARASOF Nasugbu Campus | January 31, 2022 to June 30, 2023 |
| 27. | Ai-Mech-3D-Printer: An AI-Engineered 3D Printing Optimization of Mechanically Strengthened Thermoplastic Materials | Reymark D. Maalihan Alvin S. Alon John Carlo V. Aggari Francis Jesmar P. Montalbo Roy B. Latayan | 158,400.00 | Batangas State University Alangilan Campus | August 16, 2021 to July 30, 2022 Approved Extension: July 31, 2022 to March 31, 2023 Extension: June 2023 |





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|---------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------|-----------------------|--------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------|
| 28. | Development and Characterization of Volcanic Ash Chitosan Composite Ceramic Membrane for potential application in treatment of Swine biogas digester effluent | 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 |
| DISASTER RISK MANAGEMENT | | | | | |
| 29. | 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 |
| HEALTH RESEARCH | | | | | |
| 30. | 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 |





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| 31. | 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 |
| 32. | Integration of Psychosocial Support for the Post-traumatic Recovery of Disaster Affected Areas | Florina P. Santiago Erwin Rafael Cabral Alvin Ryan A. Dizon Jovito P. Permante Leonora P. Santos | 139,000.00 | Batangas State University Lipa Campus | January 23, 2023 to January 22, 2024 |
| 33. | Intelligent Clinical Assessment and Recording (iCARE): Development of Web-Based and Mobile Healthcare System Application for BatStateU Nursing Students | Lorissa Joana E. Buenas Albert V. Paytaren Renalyn D. Malabanan | 78,600.00 | Batangas State University ARASOF-Nasugbu Campus | January 23, 2023 to January 22, 2024 |
| 34. | Health Status and Lifestyle Practices of Coastal Communities in Nasugbu, Batangas | Renalyn D. Malabanan Rosalie R. Rojas Ronarica B. Diones Kareen C. Aclan | 42,000.00 | Batangas State University ARASOF-Nasugbu Campus | January 23, 2023 to June 22, 2023 Extension: Until December 30, 2023 |
| Sub-total | | | 10,485,776.00 | | |





Office of the Research Director

ONGOING RESEARCH PROJECTS 2023

(As of September 30, 2023)

EXTERNALLY-FUNDED

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|------------------------------------------------------|-------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------|--------------------------------------------------------|-----------------------|
| INTEGRATED, BASIC AND APPLIED RESEARCH (IBAR) | | | | | |
| 35. | Labor Market Assessment on Skills and Demand Matching in Batangas City | Joel B. Bacay Rysheer Q. Legaspi Jennifer B. Atienza Concepcion P. Castro | 360,000.00 | FGEN LNG First Gen Corporation | |
| 36. | Local Economic Development and Competitiveness Index for Cities and Municipalities in the Philippines | Albertson D. Amante Rosenda A. Bronce Aquino M. De la Peña Dyzel D. Asi Rosalinda M. Comia Abigail C. Guico James Carlo M. Inandan Bryan M. Macasaet | 100,000.00 | Department of Trade and Industry – Region 4A | April to October 2023 |





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|--------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------|--------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------|
| AGRICULTURE, AQUATIC AND NATURAL RESOURCES RESEARCH (AANRR) | | | | | |
| 37. | DOST-CRADLE funding of BatStateU entitled: ATLANTIS: An IoT-Based Artificial Intelligence Aquaponic Control and Monitoring System for Aquaponics Greenhouse | Alvin S. Alon Francis Jesmar Montalbo John Carlo Aggari Anton Louise De Ocampo | 2,879,620.00 | 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 |
| 38. | BARAKO: Batangas Actions towards Revitalization and Acceleration of Kapeng BarakO Industry | Romel U. Briones Mars G. Panganiban Anton Louise P. De Ocampo Melmar Eje Herbert Bañados Jr. Myrna Garcia | 8,316,326.90 | Department of Agriculture - Bureau of Agricultural Research (DA-BAR) | December 21, 2020 to May 20, 2023 Approved Extension: May 21, 2023 to November 20, 2023 |
| 39. | Women in Water Research: Assess, Collaborate and Engage (Win H2O RACE) | Mark L. Sibag Lovely C. Añonuevo Debbie Anne P. Marcelino Ernesto C. Magundayao | (66,640.00 THB) Php 98,357.80 | Asia-Pacific Economic Cooperation (APEC) | November 2, 2021 to April 29, 2022 For extension |





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| INDUSTRY, ENERGY AND EMERGING TECHNOLOGY RESEARCH (IEETR) | | | | | |
| 40. | Digital Light Additive Manufacturing of Philippines Natural Rubber Formulation for High-value Polymer Composite Products: A “Mixture-Design” Approach to Tailorable Properties | Reymark D. Maalihan Anita P. Aquino Reygan H. Sangalang | 1,998,700.00 | Department of Science and Technology – Philippine Council for Industry, Energy and Emerging Technology Research and Development (DOST – PCIEERD) | September 11, 2023 to September 11, 2024 |
| 41. | 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, 224 |
| 42. | PARALAXED: A Commercial-Ready Prototype of an Engineering Simulation System Using Mixed Reality | Albertson D. Amante Louie Villaverde Jeca Marie Pasay Bryan Magoling | 2,518,284.00 | DOST-TAPI | August 1, 2023 to July 30, 2024 |
| 43. | HEIRIT-ReSEED: Scaling Up the Innovation CONSortium South Luzon (ICONS South Luzon) | John Richard M. Esguerra Jecamarie V. Pasay Michael C. Lagaya Maylen C. Eroa | 2,423,552.00 | DOST – PCIEERD | August 1, 2023 to July 30, 2024 |





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| 44. | 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 |
| 45. | 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 |
| 46. | 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 Luzviminda C. Rosales | 1,601,030.00 | DOST – PCAARRD | January 1, 2022 to December 31, 2023 |





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| 47. | Program Title: Higher Education Institution Readiness for Innovation and Technopreneurship - Regional Startup Enablers for Ecosystem Development (HEIRIT-ReSEED) Project Title: Innovation CONSortium of South Luzon (ICONS South Luzon) | Albertson D. Amante John Richard M. Esguerra | 1,498,704.00 | DOST – PCIEERD | December 16, 2021 to December 15, 2022 February 1, 2022 to January 31, 2023 |
| 48. | MR. Tour Guide: A Cultural Adaptive Mapping Platform using Mixed Reality | Albertson D. Amante John Richard M. Esguerra Poul Isaac De Chavez Mark Emmanuel Magsino | 3,903,612.00 | DOST – PCIEERD | October 1, 2020 to September 30, 2021 Extension: January 4, 2022 to June 30, 2022 |
| DISASTER RISK MANAGEMENT (DRM) | | | | | |
| 49. | Development and Installation of Solar Isotropic Generator of Acoustic Wave (SIGAW) with Flood Sensing Capability for Ternate Cavite | Albertson D. Amante Albert Villena Edcel E. Torralba | 1,297,284.40 | Department of Science and Technology Regional Office No. 4A (CALABARZON) | January 2022 to December 2022 Extension: January to March 31, 2023 |





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| 50. | Development and Installation of Solar Isotropic Generator of Acoustic Wave (SIGAW) for Quezon Province - Phase 3 | Tirso A. Ronquillo Gina Eje | 1,376,310.00 | Department of Science and Technology Regional Office No. 4A (CALABARZON) | January 2022 to December 2022 Extension: Jan to March 31, 2023 |
| Sub-total | | | 33,046,365.30 | | |
| TOTAL | | | 43,532,141.30 | | |

Institutionally-Funded Research Projects for Completion of Terminal Report

| No. | Title | Proponent/s | Approved Budget (Php) | Beneficiary (Partner Industry/ Community/ Fund Source) | Approved Duration |
|------------------------------------------------------|------------------------------------------------------------------------|----------------------------------------------------------|-----------------------|--------------------------------------------------------|-----------------------------------|
| INTEGRATED, BASIC AND APPLIED RESEARCH (IBAR) | | | | | |
| 51. | Mathematics Remedial Tool Kits for Struggling Students (Math-RetoKiSS) | Imelda M. Flores Israel P. Peñero Renson A. Robles | 56,500.00 | Batangas State University Pablo Borbon Campus | January 23, 2023 to June 22, 2023 |





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|--------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------|-----------------------|--------------------------------------------------------|-----------------------------------------------------------------------------------------------------------|
| 52. | 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 |
| 53. | Transportation Research for Assessment of its Network, Safety, Policy and Optimization (TRANSPO) Program Project 2: Economic Assessment of Transportation (EAT) – ECOAST | Gemar G. Perez Teodorica G. Ani Romer Castillo | 74,788.00 | Batangas State University Pablo Borbon Campus | August 17, 2020 to July 16, 2021 |
| AGRICULTURE, AQUATIC AND NATURAL RESOURCES RESEARCH (AANRR) | | | | | |
| 54. | DILIS-BAGA Project (Development of Indigenous fLavored anchovies with Innovative packaging design Study- Batangas Gourmet Anchovies Project) | Mayette A. Cananea Leila T. Bayot Erwin A. Caparas Minelyn P. Cochingco | 450,000.00 | Batangas State University ARASOF-Nasugbu Campus | January 31, 2022 to January 30, 2023 Approved Extension: February 1, 2023 to May 31, 2023 |





Office of the Research Director

| No. | Title | Proponent/s | Approved Budget (Php) | Beneficiary (Partner Industry/ Community/ Fund Source) | Approved Duration |
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| 55. | Seaweed Beds as Transition Habitat for Coral Reef Fishes (SeaBaTH) | 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 |
| 56. | Biodiversity Mapping of Marine Protected Areas of Barangay Papaya, Nasugbu Batangas | Miguel Enrique Ma. A. Azcuna Inocencio Madriaga Jr. Jonel Corral | 200,000.00 | Batangas State University ARASOF-Nasugbu Campus | August 17, 2020 to July 16, 2021 Approved Extension: July 17, 2021 to December 17, 2022 |
| 57. | Program Title: FIC 4VIP Project Component D: Development of Sea Grapes (<i>Caulerpalentillifera</i>) Juice | Juliana Kassandra P. Rodil Marielli Katherine C. Untalan Emelie A. Ona Mark Anthony C. Lat | 200,000.00 | Batangas State University Central Administration | January 2020 to December 2020 |





Office of the Research Director

| No. | Title | Proponent/s | Approved Budget (Php) | Beneficiary (Partner Industry/ Community/ Fund Source) | Approved Duration |
|------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------|--------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| INDUSTRY, ENERGY AND EMERGING TECHNOLOGY RESEARCH (IEETR) | | | | | |
| 58. | BRIDGES Program: Building Research and Innovation Developmental Goals for Engineering SUCs Establishment of Higher Education Integrated Environmental Quality Monitoring System using Air Quality Sensors and Ambient Intelligence Platform (AMBIANCE) | Cristina Amor M. Rosales Erwin Enriquez Oliver S. Dimailig Danica Marie B. Mercado Diosa Marie M. Aguila John Kristoffer Javarez | 802,940.00 | Batangas State University Alangilan Campus | January 15, 2021 to January 14, 2022 Approved Extension: January 15, 2022 to October 14, 2022 Approved Extension: October 15, 2022 to December 31, 2022 |
| 59. | Program Title: Research Program to Innovate Social Sciences and Education for the Challenges of Industry 4.0 Project Component B. Health and Wellness Program of Batangas State University | Renalyn D. Malabanan Rosalie R. Rojas Kareen C. Aclan Kier Karlo G. Dela Luna | 59,900.00 | Batangas State University ARASOF-Nasugbu Campus | August 17, 2020 to July 16, 2021 |
| Sub-total | | | 2,271,012.00 | | |





Office of the Research Director

Externally-Funded Research Projects for Completion of Terminal Report

| No. | Title | Proponent/s | Approved Budget (Php) | Beneficiary (Partner Industry/ Community/ Fund Source) | Approved Duration |
|--------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------|-----------------------|--------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| AGRICULTURE, AQUATIC AND NATURAL RESOURCES RESEARCH (AANRR) | | | | | |
| 60. | Understanding Physiological Vulnerability of <i>Ulva</i> spp.: Implication to Green Tide Blooms | Jayvee A. Saco Amor P. Magtibay Najeen Arabelle M. Rula Jovy Ann Valera Glenn Brian E. Aguila | 2,146,250.00 | DOST – PCAARRD | April 1, 2021 to March 31, 2023 Approved change of Implementation: July 1, 2021 to June 30, 2023 |
| 61. | Deployment of Solar Isotropic Generator of Acoustic Wave (SIGAW) with Food Sensing Capability for Mayantoc, Tarlac | Albertson D. Amante | 833,310.00 | Department of Science and Technology Regional Office No. III | March 1, 2022 to February 28, 2023 |
| 62. | Biological and Ecological Studies on <i>Asparagopsis taxiformis</i> (BEAT) for culture technology development | Jayvee A. Saco | 2,628,113.00 | DOST – PCAARRD | February 1, 2021 to January 31, 2022 Approved change of Implementation: May 1, 2021 to April 30, 2022 2nd Extension: May 1, 2022 to April 30, 2023 |
| Sub-total | | | 5,607,673.00 | | |
| TOTAL | | | 7,878,685.00 | | |



Office of the Research Director

Externally-Funded Research Project for Termination

| No. | Title | Proponent/s | Approved Budget (Php) | Beneficiary (Partner Industry/ Community/ Fund Source) | Approved Duration |
|------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------|-------------------------------|----------------------------------------------------------------|--------------------------------------------------------------------------|--------------------------------|
| INDUSTRY, ENERGY AND EMERGING TECHNOLOGY RESEARCH (IEETR) | | | | | |
| 63. | Technology Improvement of the Production Facility of Food Innovation Center in Batangas State University | Marielli Katherine C. Untalan | 169,450.00 Assessed Value of Equipment: 1,191,102.20 | Department of Science and Technology Regional Office No. 4A (CALABARZON) | November 2020 to November 2022 |
| TOTAL | | | 169,450.00 | | |

Prepared by:



Asst. Prof. EMELIE A. ONA

Faculty with Special Administrative Assignment

Checked and Verified:



Dr. ROSENDA A. BRONCE

Director, Research

