

INDUSTRIAL TECHNOLOGY DEVELOPMENT INSTITUTE
LIST OF 2019 IMPLEMENTED PROJECTS

| Project Code | Program or Project | Project Duration | | Project Status | Project Leader | Funding Agency |
|---|--|------------------|-------------|----------------|------------------|----------------------|
| | | Start | End | | | |
| CHEMICALS AND ENERGY DIVISION | | | | | | |
| RDR-CED-2019-01 | Development of Prototype 100L Low Cost Semi-Automated Reactor for the Production of Liquid Detergent Soap | 1-Jan-2019 | 31-Dec-2019 | Completed | OC Evangelista | GAA |
| RDR-CED-2019-03 | Compressed Biogas Technology (CBT) for Household and Commercial Applications | 1-Jan-2019 | 31-Dec-2019 | Completed | AVO Bawagan | GAA |
| RDR-CED-2019-04 | Isolation, Purification and Characterization of Curcumin from Philippine Turmeric (Curcuma Longa L.) | 1-Mar-2019 | 31-Dec-2019 | Completed | EB Manongsong | GAA |
| RDR-CED-2019-02 | Extraction, Characterization of Rubber Seed Oil and Its Synthesis to Biolubricant | 1-Jan-2019 | 1-Dec-2019 | Completed | CG Bilbao | GAA |
| RDRD-CED-2018-01 | ITDI Livelihood Program for Reconstruction and Rehabilitation of Marawi | 1-Aug-2018 | 30-Dec-19 | Completed | EA Ongo | GAA |
| LFP-CED-2019-01 | Modular Innovation Center for Oils, Blends and Sauces (Y3) | 1-Jan-2017 | 31-Dec-2019 | Completed | A. Briones | GAA |
| RDA-CED-2017-01A | I-SALT: Improving Productivity and Efficiency of Local Salt Producers Towards a Self-Reliant Philippines in 2020 Project 1 : Design, Prototyping of Salt Processing Equipment (Washer, Dryer, Iodizer, Crystallizing Pan, Furnace, Concentrator (ion-exchange membrane) | 1-Jul-2017 | 29-Feb-2020 | Ongoing | A. Briones | PCIEERD |
| RDA-CED-2017-01B | Project 2: Development of Gourmet Salt Products and Micro-Sized Salt in Laboratory Scales | 1-Jul-2017 | 31-Mar-2019 | Completed | A. Briones | PCIEERD |
| RDA-CED-2018-01 | Characterization/Performance Testing of the Biodiesel/Diesel Blends from Combined Feedstock of Various Vegetable and Used Cooking Oils | 1-May-2018 | 31-Dec-2019 | Completed | A. Briones | DOE-NBB and ITDI GAA |
| RDA-CED-2018-02 | Capability Building on Energy Efficiency and Conservation (EE&C) for State Universities and Colleges of Six (6) Regions as Demonstration Sites | 1-Apr-2018 | 31-Dec-2019 | Completed | A. Bawagan | PCIEERD-GIA |
| ENVIRONMENT AND BIOTECHNOLOGY DIVISION | | | | | | |
| RDR-EBD-2019-01 | Development of Microbial Inocula for Industrial Applications | 1-Jan-2019 | 1-Dec-2019 | Completed | U.G. Bigol | GAA |
| RDR-EBD-2019-05 | Production of freeze-dried laccase for biotechnological application 1. Xylanase | 1-Jan-2019 | 1-Dec-2019 | Completed | U.G. Bigol | GAA |
| RDR-EBD-2019-06 | Molecular Characterization of Lactic Acid Bacteria (LAB) from Fermented Foods in the Philippines | 1-Jan-2019 | 1-Dec-2019 | Completed | E. Panerio | GAA |
| RDR-EBD-2019-07 | Genotypic Screening of industrially-Important Enzymes Produced by Bacillus sp. Isolated from Soil | 1-Jan-2019 | 1-Dec-2019 | Completed | E. Panerio | GAA |
| RDR-EBD-2019-02 | Nutrient Removal of Anaerobically-treated Piggery Wastewater | 1-Jan-2019 | 1-Dec-2019 | Completed | D. Herrera | GAA |
| RDR-EBD-2019-03 | Development of Chemical Oxidant Delivery System for Remediation of Petroleum Contaminated Soil | 1-Jan-2019 | 1-Dec-2019 | Completed | Judith C. Tejano | GAA |
| RDR-EBD-2019-04 | Development of a Bench-Scale Biological Wastewater Treatment Design Facility | 1-Apr-2019 | 1-Dec-2019 | Completed | RL Retamar | GAA |
| RDA-EBD-2019-01 | Post-treatment of food processing wastewater effluent for nutrient removal | 22-Jan-2019 | 21-Jan-2020 | Ongoing | RL Esguerra | PCIEERD-CRADLE |
| RDA-EBD-2017-03 | Aerobic Treatment of Anaerobically Pre-digested Swine Wastewater using Activated Sludge and Subsequent Polishing using Biological Filters, Tricking Filter System | 16-Mar-2017 | 15-Mar-2019 | Completed | R. Retamar | DOST4A |
| RDA-EBD-2017-04 | Pilot Scale Production of Spray-Dried Dextran and High Fructose Syrup using Whole Cell (Leuconostoc mesenteroids isolates) ITDI | 6-Nov-2017 | 5-Nov-2020 | Ongoing | U. Bigol | PCIEERD |
| RDA-EBD-2017-02 | Assessment of Metal Content of Food and Water Resources in Volcanic Impacted Areas PROJECT 3: Household and Community Based Filters for Metal in Waters | 1-Jan-2017 | 30-Jun-2019 | Completed | RL Esguerra | PCIEERD |

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| RDA-EBD-2017-06 | Assessment of Metal Content of Food and Water Resources in Volcanic Impacted Areas PROJECT 2: Metal Content of Water Supplies in Volcanic Impacted Area and its Impact to Vegetation | 1-Jul-2017 | 30-Jun-2019 | Completed | EA Ongo | PCIEERD |
| FOOD PROCESSING DIVISION | | | | | | |
| RDR-FPD-2019-01 | Food Safety Assessment of Hazards from Artisanal Food Processing Equipment used in Taho, Sorbetes, and Peanut Butter Processing in Taguig City, Metro Manila (former Food Safety Assessment of Hazards from Artisanal Food Processing Equipment used in Taho, Sorbetes, and Peanut Butter Processing in Parañaque City and Taguig City, Metro Manila) | 1-Jan-2019 | 1-Dec-2019 | Completed | L. Montevirgen | GAA |
| RDR-FPD-2019-03 | Application of Osmotic Dehydration as a Pre-Treatment for Vacuum Frying Selected Fruits | 1-Feb-2019 | 31-Jul-2019 | Completed | R. Belandres | GAA |
| RDR-FPD-2019-04 | Exploratory studies on: (1) Separation Techniques for Cocoa Butter and Cocoa Cake; (2) Chocolate Confectionery | 1-Jan-2019 | 31-Mar-2019 | Ongoing | MD Villaseñor | GAA |
| RDR-FPD-2019-05 | Development of a low-mineral sweet sorghum syrup as an alternative sweetener | 1-Jan-2019 | 1-Dec-2019 | Completed | ME Falco | GAA |
| RDR-FPD-2019-06 | Clarification and Concentration of Coconut Water and Philippine Calamansi Extracts using Microfiltration and Reverse Osmosis | 1-Jan-2019 | 1-Dec-2019 | Completed | ME Falco | GAA |
| RDR-FPD-2018-01 | Comparison of Quality of Dried Products Using Conventional Dryer and Heat-pump Dryer | 1-Feb-2018 | 31-Mar-2019 | 100% | J. Ocasla | GAA |
| RDR-FPD-2019-07 | Development of Shelf-Stable Food Products as Ready Food Reserve | 1-Jul-2019 | 31-Dec-2019 | 100% | MD Villaseñor | GAA |
| | Natural Food Colors from Local Source as Food Additive (Proj. 4: Natural Dyes and Colorants R&D Program) Y2 | 15-Feb-2018 | 31-Mar-2020 | Ongoing | M. Villasenor | PCIEERD |
| RDA-FPD-2018-01 | Establishment of Spray Drying Technology and Equipment for the Regional food Innovation Centers-Batch 2 | 1-Feb-2018 | 31-Mar-2020 | Ongoing | NG Ambagan | PCIEERD |
| RDA-FPD-2018-02 | Development of Com-Based Products for Candaba and Bacoor, Pampanga | 1-Aug-2018 | 30-Jul-2019 | Completed | MDL.Villaseñor | Reg 3 |
| RDA-FPD-2018-03 | Establishment of Halal Assurance System for Processing Selected Banana Products (Banana Chips, Banana Catsup, and Frozen Banana) | 1-Aug-2018 | 30-Jul-2019 | Completed | MEM. Falco | PCIEERD |
| RDA-FPD-2018-04 | Establishment of Halal Assurance System for Bakery Products(Pandesal and Loaf Bread) | 1-Aug-2018 | 30-Jul-2019 | Completed | LS. Montevirgen | PCIEERD |
| RDA-FPD-2018-05 | Technical Guidelines Development for Minimally Processes Halal Chicken and Chicken By-Products Edible Giblets) | 1-Aug-2018 | 31-Dec-2019 | Completed | ME. Evaristo | PCIEERD |
| RDA-FPD-2018-06 | Development of Emulsified Meat Products (Sausage, Nuggets and Burgers) for Halal Market | 1-Aug-2018 | 30-Jul-2019 | Completed | ME. Evaristo | PCIEERD |
| MATERIAL SCIENCE DIVISION | | | | | | |
| RDR-MSD-2019-01 | Development of Soft Ballistic Component of Bullet Proof Vest from Hybrid Composite local materials | 1-Jan-2019 | 31-Dec-2019 | Completed | M. Paglicawan | GAA |
| RDR-MSD-2019-05 | Functional Coating: Production and Performance Testing of Nano Silica-based Hydrophobic Coating | 1-Jan-2019 | 31-Dec-2019 | Completed | J. Celorico | GAA |
| RDR-MSD-2019-06 | Development of Ultrafiltration/Nanofiltration Hollow Fiber Membrane for Drinking Water Application (Phase 2) | 1-Jan-2019 | 31-Dec-2019 | Completed | M. Margarito | GAA |
| RDR-MSD-2019-07 | Innovative Ceramic Materials for Ballistic Protection | 1-Jan-2019 | 31-Dec-2019 | Completed | J. Celorico | GAA |
| RDR-MSD-2019-02 | Fabrication of Prototype Utility Tent as Temporary Shelter for Disaster and Natural Calamity Victims | 1-Jan-2019 | 31-Dec-2019 | Completed | P. de Yro | GAA |
| RDR-MSD-2019-03 | Fabrication of Prototype and Field Testing Performance of Floating Baby Capsule | 1-Jan-2019 | 31-Dec-2019 | Completed | C. Emolaga | GAA |

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| RDR-MSD-2019-04 | Southeast Asian Atmospheric Corrosion Exposure Study of Electronic Equipment and Components under Marine Environment in the Philippines (SEA ACES) Year 5 | 1-Jan-2019 | 31-Dec-2019 | Completed | A. Monsada | GAA |
| RDR-MSD-2019-08 | Asia Nano Forum 2019 | 1-Jan-2019 | 31-Dec-2019 | Completed | P. De Yro | GAA |
| RDRA-MSD-2018-01 | Deployment of Innovative Rainwater Collection Systems in Marawi | 1-May-2018 | 31-Dec-2019 | Completed | B. Basilia | GAA |
| RDA-MSD-2019-01 | Program: Advanced Additive Manufacturing R & D Project 1: Development of Multiple Materials Platform for Additive Manufacturing (MATDEV) | 3-Jan-2019 | 31-Dec-2021 | Ongoing | B. Basilia | DOST-GIA |
| RDA-MSD-2019-02 | Prototype Development of Natural Fibre-Thermoplastic Composites from Agricultural and Industrial Wastes for Industrial Applications | 1-Apr-2019 | 30-Mar-2020 | Ongoing | M. Paglicawan | TECHNICOM |
| RDA-MSD-2017-05 | Assessment of Metal Content of Food and Water Resources in Volcanic Impacted Areas: Project 3-Study 1: Household Based Filters for Metals in Water | 1-Jul-2017 | 30-Jun-2019 | Completed | B. Basilia (Program Lead) | PCIEERD |
| RDA-MSD-2017-07 | Program: Intelligent Data Analysis System (IDAS) for Drug Trafficking Investigation in the Philippines Project 1: Application of Multivariate Analysis on Methamphetamine HCl Chemical Fingerprints and Kinetic Stability Modelling (Collaborative Project with PDEA/ASTI) | 16-Dec-2017 | 31-Dec-2020 | Ongoing | A. Monsada | PCIEERD |
| RDA-MSD-2017-08 | ADMATEL Expansion and Business Continuity | 10-Nov-2017 | 9-Nov-2020 | Ongoing | A. Monsada | PCIEERD |
| RDA-MSD-2018-01 | Fabrication and Performance Evaluation of Abaca Fiber Reinforced Composites for Boat Applications | 1-Apr-2018 | 2-Apr-2019 | Completed | M. Paglicawan | TECHNICOM |
| RDA-MSD-2018-02 | Environment, Health and Safety Research on the Risk Assessment of Nanomaterials | 1-Jun-2018 | 31-May-2020 | Ongoing | B. Basilia | DOST-GIA |
| PACKAGING TECHNOLOGY DIVISION | | | | | | |
| RDR-PTD-2017-14 | Effect of Shock and Vibration on the Quality and Shelf Life of Mangosteen | 1-Jul-2018 | 31-Oct-2019 | Completed | ES. Orendain | GAA |
| RDR-PTD-2019-01 | Effect of Storage Conditions on Migration Characteristics of Benzophenone in Paper and Paper-based Food Packaging (Phase 2) (Phase 1 - RDR-PTD-2018-04) | 1-Jan-2019 | 31-Mar-2020 | Ongoing | JL. Diaz | GAA |
| RDR-PTD-2019-02 | Data Acquisition of Shock and Vibration Values in the Delivery (Motorcycle and Closed Van) of E-commerce Products within Metro Manila | 1-Jan-2019 | 29-Feb-2020 | 90% | ET. Nolasco | GAA |
| RDR-PTD-2019-03 | Development of Retort Foods as Food Ration for Philippine Army during Combat Operations and Encounters (Phase 1) | 21-Jan-2019 | 31-Mar-2021 | 21% | FV. Loberiano | GAA |
| RDR-PTD-2019-04 | Asia Packaging Network (APN) and International Packaging Symposium and ISTA-APD International Symposium on Distribution Packaging October 22 to 25, 2019 | 16-Nov-2018 | 31-Mar-2020 | Ongoing | D.E. Tañafrañca | GAA |
| RDR-PTD-2019-05 | Branding as a Tool in Promoting Packaging Technologies Developed by PTD | 16-Apr-2019 | 31-Dec-2019 | Completed | KJR. Dizon | GAA |
| RDR-PTD-2019-06 | Development of Intelligent Packaging Colorimetric Sensor to Monitor the Quality and Safety of Smoked Fish (Y1) | 1-Jun-2019 | 31-Dec-2020 | Ongoing | R. Garalde | GAA |
| RDR-PTD-2019-07 | Shelf-life Extension of "Bukayo" and "Budin" through the Application of Improved Packaging | 21-Jul-2019 | 31-Mar-2020 | Ongoing | F.V. Loberiano | GAA |
| RDR-PTD-2017-15 changed to | Development of an Effective Distribution System for RTE foods (chicken arroz caldo and fish rice meal) to Mitigate the Magnitude of Distress for Calamity Survivors and Providers of Services | 1-Dec-2017 | 30-Nov-2018 | Completed | D. Tanafranca/ G. Noceja | DOST-GIA |
| RDA-PTD-2017-15 | | 1-Dec-2018 | 30-Jun-2020 | Ongoing | | |

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| RDA-PTD-2016-04 | Upgrading and Enhancing the Capacity of the Packaging Technology Division in Packaging Research and Innovation | 1-Dec-2016 | 30-Nov-2019 | Completed | D. Tanafranca/ G. Noceja | DOST-GIA |
| RDA-PTD-2019-04 | Asia Packaging Network (APN) and International Packaging Symposium and ISTA-APD International Symposium on Distribution Packaging October 22 to 25, 2019 | 1-Apr-2019 | 31-Mar-2020 | Ongoing | DE. Tañafrañca | DOST-GIA |
| NATIONAL METROLOGY DIVISION | | | | | | |
| Enhancement of the Competence and Capabilities of the National Metrology Laboratory of the Philippines | | | | | | |
| RDRD-2017-NMD-01 | Project 1 : Chemical Metrology for Organic Contaminants in Food and Water | 1-Jan-2017 | 31-Dec-2021 | Ongoing | B. Ebarvia | LFU |
| RDRD-2017-NMD-02 | Project 2 : Chemical Metrology for Inorganic Toxic Elements in Food and Water | 1-Jan-2017 | 31-Dec-2021 | Ongoing | B. Ebarvia | LFU |
| RDRD-2017-NMD-03 | Project 3 : Biological Metrology for Microorganisms in Food | 1-Jan-2017 | 31-Dec-2021 | Ongoing | M. Aguinaldo | LFU |
| RDRD-2017-NMD-04 | Project 4: Strengthening the Physical Metrology Capabilities of the National Metrology Laboratory (NML) | 1-Jan-2017 | 31-Dec-2021 | Ongoing | K. Suycano | LFU |
| STANDARDS AND TESTING DIVISION | | | | | | |
| RDA-2017-STD-03 | Development of Natural Colorants for Cosmetics (Proj. 2: Natural Dyes and Colorants R&D Program) | 16-Mar-2017 | 31-Dec-2019 | Completed | R. Torres | PCIEERD |
| RDA-2018-STD-02 | Establishment of Halal Assurance System for Production, Method Development and Standardization of Cosmetics and Toiletries | 1-Aug-2018 | 31-Jul-2019 | Completed(Y1) | R. Torres | PCIEERD |
| RDA-2018-STD-01 | OneLab Capability Assurance System for Metal Content Assessment in Agricultural Produce, Water and Environmental Samples | 1-May-2017 | 31-Sep-2019 | Completed | R. Fuyertes | PCIEERD |
| TECHNOLOGICAL AND SERVICES DIVISION | | | | | | |
| RDA-2018-TSD-01 | Pilot Implementation of ITDIs Pre-Commercialization Tools/Strategies for Effective Transfer and Commercialization of Generated Technologies and Intellectual Properties | 4-Jul-2017 | 5-Apr-2019 | Completed | N. Florendo | PCIEERD |