



Republic of the Philippines  
**BATANGAS STATE UNIVERSITY**  
Alangilan Campus, Alangilan, Batangas City



**COLLEGE OF ENGINEERING, ARCHITECTURE, AND FINE ARTS**  
**CHEMICAL AND FOOD ENGINEERING DEPARTMENT**

**RESEARCH PROJECTS (FY 2022)**

<b>Title</b>	<b>Proponent</b>	<b>Campus/College</b>	<b>Duration</b>	<b>Budget (PhP)</b>
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	Alangilan – CEFAFA, CICS	August 16, 2021 - July 30, 2022	158,400.00 Batangas State University
Evaluation And Modification of a Waste Cooking Oil (WCO) Transesterification Biodiesel Reactor Through Integration of Auxiliary Components for Process Optimization	Reggie A. Dueñas Rejie C. Magnaye Neres Ann M. Repollo	Alangilan - CEFAFA	August 16, 2021 - May 30, 2022	100,000.00 Batangas State University
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	Alangilan - CEFAFA	August 16, 2021 to July 30, 2022	239,110.00 Batangas State University

Title	Proponent	Campus/College	Duration	Budget (PhP)
<b>Program Title:</b> FIC 4VIP  <b>Project Component B.</b> Development and Acceptability of Multispecies Seaweed Chip	<b>Project Component B.</b> Mark Anthony C. Lat Marielli Katherine C. Untalan Juliana Kassandra P. Rodil Ma. Jesukristina M. Lumanglas	Food Innovation Center (FIC)	August 17, 2020-July 16, 2021	200,000.00 Batangas State University
<b>Project Component D:</b> Development of Sea Grapes (Caulerpa lentillifera) Juice	<b>Project Component D</b> Juliana Kassandra P. Rodil Marielli Katherine C. Untalan Mark Anthony C. Lat Emelie A. Ona	Food Innovation Center (FIC)	August 17, 2020-July 16, 2021	200,000.00 Batangas State University
<b>Program Title:</b> TAAL (Taal Ashfall Analysis and Applications for Livelihood)  <b>Project 1.</b> Removal of Methylene Blue Dye in Aqueous Solution Using Nanosilca Based Adsorbent from Volcanic Ash	Rhonalyn V. Maulion Elisa D. Gutierrez Rosenda A. Bronze Shirley G. Cabrera Anita P. Aquino Rejie C. Magnaye Eufronia M. Magundayao	Alangilan - CEAFSA	August 17, 2020 - July 16, 2021	300,000.00 Batangas State University
3D Printed Waste Battery Rod Derived Exfoliated Graphite-Polymer Composites for Electronic Sensor Applications	Jefferson A. Macalalad John Marlou T. Optima Seth F. Robiso  Mentors: Reymark D. Maalihan Anton Louise P. De Ocampo	Alangilan - CEAFSA	January 17, 2022 - October 17, 2022	713,297.00 DOST - PCIEERD  215,000.00 Batangas State University
<b>IMPACT:</b> Supporting Potential and Relevant IP as Next Generation Business Opportunities towards Acceleration of Research and Development <b>(SPRINGBOARD)</b>	Albertson D. Amante Leandro Dalhag Ivy Fides R. Perez	Alangilan - CEAFSA	January 4, 2021- January 3, 2022  Extension: January 4, 2022- July 3, 2022	3,493,785.00 DOST – PCIEERD  1,551,680.80 Batangas State University

Title	Proponent/s	Campus/College	Duration	Budget (PhP)
<p><b>Program Title:</b> Support to the University's Strategies in Technology Acceleration Initiatives by Nurturing (SUSTAIN) the Intellectual Property and Technology Business Management (IP-TBM) Offices of the Consortia Member Agencies (Phase II)</p> <p><b>Project Title:</b> Project 3. Sustaining CvSU's IP-TBM Office and Enhancing IP-TBM Offices among Member Agencies of the Southern Tagalog Agriculture and Resources Research and Development Consortium (STARRDEC)</p> <p>Project Component: Project 3D Enhancing Technology Transfer through IP-TBM in Batangas State University (BatSU)</p>	<p>Leandro Dalhag Albertson D. Amante Ivy Fides R. Perez</p>	<p>Alangilan - CEAFA</p>	<p>January 1, 2020 to December 31, 2021</p> <p>Extension: January 1, 2022 – June 30, 2022</p>	<p>1,631,716.00 <i>Adjusted Budget AMENDED PER NBC 580:</i></p> <p>1,570,890.70 DOST – PCAARRD (The Philippine Council for Agriculture, Aquatic, and Natural Resources Research and Development)</p>
<p>Development of a Liner-Enhanced Curing Vessel for Salted Egg Production for Eggciting Traditions</p>	<p>Allan De Villa Mary Rose F. Persincula Rhonalyn Maulion Gerard Aguila</p>	<p>Alangilan - CEAFA</p>	<p>February 15, 2021 to February 14, 2022</p>	<p>4,962,400.00 DOST-PCIEERD</p>
<p>Enterprise Development and Organization of Professional Management Team</p>	<p>Rosenda A. Bronce Irene H. Maralit Teodorica G. Ani Aquino M. De la Pena Marielli Katherine C. Untalan Emelie A. Ona</p>	<p>Pablo Borbon-CAS/ CABEIHM Alangilan - CEAFA</p>	<p>April 1, 2021 – December 31, 2021</p> <p>Extension: January 1, 2022 - June 30, 2022</p>	<p>1,000,000.00 Department of Agriculture-Region IVA</p> <p>300,000.00 Batangas State University</p>

<b>Title</b>	<b>Proponent</b>	<b>Campus/College</b>	<b>Duration</b>	<b>Budget (PhP)</b>
Upgrading of BatStateUs UHT-HTST Facility: Input for Production of High-Quality Fruit Juices	Marielli Katherine C. Untalan Ma. Jesukristina M. Lumanglas	Alangilan - CEFAFA	November 2020 - November 2021	5,000,000.00 Department of Agriculture- Bureau of Agricultural Research
Technology Improvement of the Production Facility of Food Innovation Center in Batangas State University	Marielli Katherine C. Untalan	Alangilan - CEFAFA	November 2020 - November 2021	169,450.00 (1,191,102.20 assessed value of equipment) DOST IV-A