



## Curriculum Vitae Department of Agricultural Engineering Universitas Brawijaya

<b>Name</b>	<b>Dr. Ir. Bambang Dwi Argo, DEA.</b>		
<b>Position</b>	<i>Teaching area: Control System, and Renewable Energy, Associate Professor in Bachelor of Bioprocess Engineering Study Programme</i>		
<b>Academic career</b>	<b>Initial academic appointment</b>	<i>Agricultural Engineering Department, Universitas Brawijaya, Indonesia</i>	<i>1986</i>
	<b>Doctoral degree</b>	<i>Energy System Engginering Department, INSA Toulouse, France</i>	<i>1990</i>
	<b>Master degree</b>	<i>Energy System Engginering Department, Univ de Perpignan, France</i>	<i>1989</i>
	<b>Undergraduate degree</b>	<i>Agriculture Engineering Department, Bogor Agricultural Institute, Indonesia</i>	<i>1980</i>
<b>Employment</b>	<b>Lecturer</b>	<i>Agricultural Engineering Department, Universitas Brawijaya, Indonesia</i>	<i>1986- Now</i>
<b>Research and development projects over the last 5 years</b>	<ul style="list-style-type: none"> <li>- <i>Effect of treatment duration and frequency of PEF on polyphenol content of Extracted Cosmos Caudatus, 2017, 12M IDR</i></li> <li>- <i>Effect of Microwave Pretreatment on Hydrodistillation of Ginger (Zingiber officinal) on the Ginger Oil Yield, 2018, 3M IDR</i></li> <li>- <i>Microwave Assisted Hydrodistillation (MAHD) with the Addition of a Temperature Controller to Increase the Zingiberene Content in Ginger Essential Oil, 2019, 15M IDR</i></li> <li>- <i>Dynamic System Using Recursive Least Square Method for Temperature Control in Soursop Fruit Extraction, 2019, 50M IDR</i></li> <li>- <i>Study of the Amorphophallus (Porang) Chip Shading Process Uses a Micro Mill Polishing Machine and a Roller Mill, 2019, 60M IDR</i></li> <li>- <i>Design of Control System for Air Conditioner Based on the Detection of People's Presence to Save Electricity, 2020, 4M IDR</i></li> <li>- <i>Study of the Amorphophallus (Porang) Chip Shading Process Uses a Micro Mill Polishing Machine and a Roller Mill, 2020, 60M IDR</i></li> </ul>		
<b>Industry collaborations over the last 5 years</b>	- <i>Ministry of Research and Technology of the Republic of Indonesia, 2019-2020</i>		
<b>Patents and proprietary rights</b>	<ul style="list-style-type: none"> <li>- <i>Trans-esterification compact reactors for biodiesel production based micro-wave, 2007</i></li> <li>- <i>Biodiesel washer machine with water spraying system in oil, 2011</i></li> <li>- <i>Batch type supercritical reactors for biodiesel production, 2011</i></li> <li>- <i>Laboratory scale spray dryer model, 2011</i></li> <li>- <i>Swing system vacuum fryer machine, 2011</i></li> <li>- <i>Experimental dryer machine type exdry 51, 2011</i></li> <li>- <i>Method of spreading the walls of glandular cells tricoma leaf of patchouli essence using a typical electric field, 2015</i></li> </ul>		

<p>Important publications over the last 5 years</p>	<p><i>Selected recent publications from a total of approx. 25 papers:</i></p> <ul style="list-style-type: none"> <li>- <b>B.D Argo</b>, U. Ubaidillah. 2020. <i>Thin-layer drying of cassava chips in multipurpose convective tray dryer: Energy and exergy analyses. Journal of Mechanical Science and Technology 34 (1), 435-442</i></li> <li>- <b>B.D Argo</b>, Y. Hendrawan, U. Ubaidillah. 2019. <i>A fuzzy micro-climate controller for small indoor aeroponics systems. TELKOMNIKA 17 (6), 3019-3026</i></li> <li>- <b>B.D Argo</b>, S. Sandra, U. Ubaidillah. 2018 <i>Mathematical modeling on the thin layer drying kinetics of cassava chips in a multipurpose convective-type tray dryer heated by a gas burner. Journal of Mechanical Science and Technology 32 (7), 3427-3435</i></li> </ul>
<p>Activities in specialist bodies over the last 5 years</p>	<ul style="list-style-type: none"> <li>- <i>Director of Central Laboratory of Science and Engineering, Universitas Brawijaya, 2021</i></li> </ul>