

Research Collaboration Marketplace

Applicants from Ghana and Tanzania searching for a Danish Partner, Call for Phase 1 applications 2017, research collaboration projects in Danida priority countries

Research Theme of Application	
Relevant research theme according to the country of applicant as defined in the Call: (http://dfcentre.com/research/calls-for-applications/)	Growth and Technological Innovation
Applicant Information and Contact Details	
Applicant name	John Kwasi Afriyie
Applicant qualification (degree) and position	phD degree - Lecturer
Applicant e-mail address	afriyk@gmail.com
Applicant institution and country	Kumasi Technical University
Link to relevant website(s) (institution, CV, other)	www.kstu.edu.gh
Project Proposal Information	
Proposed title for the project to be applied for	Effective Fermentation and Drying in the Production of Quality Cocoa bean
Brief project description/project idea (10-15 lines)	The present traditional drying system of cocoa beans in Ghana and most developing countries does not yield maximum results, leading to rejection of some cocoa beans by the buying companies. Drying processor empowered by hybrid power (solar and generator) would be able to use a shorter time period, and provide hygienic conditions to dry the cocoa bean at the farm gate. This would provide the requisite temperature for drying irrespective of the weather conditions before it is sold to the buying companies. This is one of the best ways we can ensure a consistent future supply of quality cocoa to meet the needs of the international market and also assisting farmers to create a more secure future for themselves and their families. The main objective of this research project is to develop a hybrid power (solar and generator) controlled cocoa drying processor to be used by small-scale cocoa farmers.
Brief description of the research competencies available on your team	1. Dr. John Kwasi Afriyie. Thermo-fluids, Renewable Energy and Crop Drying 2. Dr. David Azanu, Analytical Chemist; instrumentation, Ecological Modelling, chemical analyst, Ph.D student, Danida Project, SaWaFo, Team member, Danida

	<p>Project, SHEATHE</p> <p>3. Mr. Mamudu Hamidu, Electrical Engineer, Information System Analyst, Photovoltaic System Designer, World Bank/MESTI-COTVET Research Project: Lead Researcher for Energy assessment for Small Scale Businesses in Ghana.</p>
<p>Describe in max 10 keywords the research competencies you are searching for in a Danish partner</p>	<p>Solar Energy, Control Systems, Thermodynamics, Electronics, System modeling</p>