

EXPERT'S PROFILE

Name of Grantee: DR. JULIAN F. CACHO
Area of Expertise: Watershed hydrology, water quality, agricultural water management and GIS
Inclusive Date of Contract: Short-Term Program
as BSP Awardee: 13 June - 21 August 2016 (70 days)
Host Institution: Caraga State University
E-mail Address: jfcacho@ncsu.edu



EDUCATIONAL BACKGROUND

PhD Biological & Agricultural Engineering, 2013, North Carolina State University, USA
MS Biosystems Engineering, 2005, Oklahoma State University, USA
BS Civil Engineering, 2007, Mindanao State University, Marawi, Philippines
BS Agricultural Engineering, 1998, Mindanao State University, Philippines

WORK EXPERIENCES

2014 -2016	North Carolina State University, USA Postdoctoral Research Associate
2008 - 2013	North Carolina State University, USA Graduate Researcher/Teaching Asst.
2006 - 2008	Mindanao State University, Marawi, Philippines Associate Professor III
2005	Oklahoma State University, USA Graduate Research Assistant
1998 - 2005	Mindanao State University, Marawi, Philippines Instructor II

To be Accomplished as a BSP Awardee

1. Presentations (lecture & seminar) to faculty members, researchers, students, and/or to the general public on (1) research proposal writing, (2) literature review & journal, (3) agricultural management, (4) GIS and (5) low impact development
2. Assistance to graduate students conducting research in biosystems and agricultural engineering

3. Workshop on watershed modeling using the Soil & Water Assessment Tool (SWAT) model. Activities include downloading, installation and testing of required software packages for approx. 20-30 computer units, finalize all workshop materials, send
4. Packaged research project proposal/s ready for submission to DOST-PCIEERD and other funding institutions on:
 - Integrated waste management for Langihan Wet Market
 - LULC and projected climate changes impacts on the hydrology of and sediment loading in Taguibo watershed using SWAT
 - Estimating rice water use using surface renewal method
5. Consultation on DOST-funded projects:
 - PCIEERD S&T Water environment roadmap
 - PHIL LIDAR 2.2 LIDAR data processing, modeling and validation by HEIs for the nationwide detailed resource assessment