

EXPERT'S PROFILE

Name of Grantee : DEO FLORENCE L. ONDA, PhD
Area of Expertise : Marine Science, Oceanography
Inclusive Date of Contract as BSP Awardee : Long Term (January 2019-January 2021)
Host Institution : University of the Philippines Diliman
Marine Science Institute



EDUCATIONAL BACKGROUND

- **Ph.D. Microbial Oceanography**, Université Laval, Québec City, Québec, Canada, 2017
- **MSc in Marine Science (Marine Biotechnology)**, Marine Science Institute, UP Diliman, Quezon City, Philippines, 2011
- **BSc in Biology (Marine Microbial Ecology)**, University of the Philippines Baguio, Baguio City, Philippines, 2008

PROFESSIONAL EXPERIENCE

2018-present **Assistant Professor**, Microbial Oceanography Laboratory
The Marine Science Institute, University of the Philippines – Diliman
Quezon City, Philippines

Sept - Dec 2017 **Post-Doctoral Fellow**
Alfred Wegener Institute – Hemholtz Center for Polar and Marine Research,
Bremerhaven Germany

Sept 2012 – Apr 2017 **Research Fellow**
Canada Excellence Research Chair – Remote Sensing of Canada's Arctic
Frontier, Takuvik Joint International Laboratory, Université Laval, Quebec
City, Canada

Aug-Sept 2013 **Expedition Scientist**
Sept-Oct 2014 Joint Ocean Ice Studies (JOIS)- Beaufort Gyre Exploration Project (BGEP).
Sept-Oct 2015 Organized by the Institute of Ocean Sciences (Canada) and Woodhole
Oceanographic Institute (WHOI) Canada Basin, Arctic Ocean on board CGGS
Louis S St. Laurent

May - June 2012 **Senior Research Associate**
Program: Genetics/Genomic Studies on Harmful Algal Blooms (HABGen)
Project 2. Biosynthetic genes and molecular tools for HAB monitoring
The Marine Science Institute, University of the Philippines- Diliman,
Philippines

Mar 2009 - Jan 2012

Senior Research Associate

Program: Ecology and Oceanography of HABs in the Philippines Program (PhilHABs)

Project 1: Genetic Diversity/Biodiversity of selected HAB-forming species in the Philippines and their associated bacterial communities.

The Marine Science Institute, University of the Philippines - Diliman

TO BE ACCOMPLISHED AS A BSP AWARDEE

1. Publish review papers related to microbial oceanography studies in the Philippines
2. Write proposals for funding consideration
 - a. Diversity, biogeography, ecological roles and potential biotechnological benefits of microbial species found in West Philippine Sea
 - b. Role of microbes on the fate of plastics in the marine environment
3. Co-advise/mentor graduate students for their special problem/thesis
4. Implement MSI-based HABs project (PCAARRD/UP funded)
 - a. Conduct of sampling from targeted HABs site
 - b. Conduct of cell counts
 - c. Optimize protocols
 - d. Culturing of host/parasite organism
 - e. DNA extraction and identification
 - f. Conduct host specificity assays
 - g. Data Integration and Publishing of results