

EXPERT'S PROFILE

Name of Grantee : **Dr. Pher Errol B. Quinay**
Area of Expertise : computational earthquake engineering, engineering seismology and high-performance computing
Inclusive Date of Contract as BSP Awardee : Short-Term Program
: 05 September – 03 December 2016 (90 days)
Host Institution : PHIVOLCS - DOST
Batangas State University
E-mail Address : quinay.phererrol@gmail.com



EDUCATIONAL BACKGROUND

- **Doctor of Engineering** (Civil Eng'g), 2012, The University of Tokyo, Japan
- **Master of Engineering** (Civil Eng'g), 2009, Tokyo Institute of Technology, Japan
- **BS Civil Engineering**, 2005, UP Diliman

WORK EXPERIENCES

- 2012 –2016 **Niigata University, Japan**
Assistant Professor
- 2010 – 2012 **Japan Atomic Energy Agency, Chiba, Japan**
Fellow of Advanced Science
Earthquake Research Institute, The University of Tokyo, Japan
Research Assistant
- 2006 - 2007 **AHM Philippines, Inc., Quezon City**
Structural Designer

To be Accomplished as a BSP Awardee

PHIVOLCS-DOST

1. Workshop-training on creating virtual city model (of a target urban area in the Philippines) and input hazard model for analysis using IES-SRA
2. Presentation to PHIVOLCS and other government agencies such as NDRRMC, DILG and other concerned agencies (i.e. MMDA, MGB-DENR, DPWH) on the methodology and application of IES-SRA
3. Assistance/consultation on externally-funded project, SeReNe (a PHIVOLCS 2016 project for improving the risk assessment methodology of REDAS)
4. Assistance in the preparation of a research grant proposal for improving the damage assessment methodology of PHIVOLCS

Batangas State University

5. Conduct lectures to undergraduate students (of Civil and Sanitary Engineering courses) on the following topics (methods used to analyze structures):
 - Matrix analysis of structures
 - Finite element analysis
6. Presentations on the current applications of numerical methods to hazard analysis (prospective audience: students, faculty, researchers, professionals from other organizations):
 - computer-aided model generation and analysis
 - IES-SRA application to target urban area in the Philippines
7. Assist faculty in mentoring graduate and senior undergraduate students on areas of:
 - Civil Engineering
 - Computer Science
8. Assist Dept. of Civil Engineering in preparation of research grant proposal on the following topic for submission to funding institution on Disaster preparedness
9. Provide technical assistance on PCIEERD-GIA project "Development of Wireless Sensory Network System for Structural Integrity Monitoring of Bridges (SMART BRIDGE)"