

EXPERT'S PROFILE

Name of Grantee : Dr. Eli Christopher I. Enobio
Area of Expertise : Spintronics Computational Physics
Inclusive Date of Contract as BSP Awardee : Short-Term Program
: 27 February – 28 March 2017 (30 days)
Host Institution : Department of Physics, Mindanao State University — Iligan
Institute of Technology (MSU-IIT)
E-mail Address : enobio@riec.tohoku.ac.jp



EDUCATIONAL BACKGROUND

- **PhD in Electronics Engineering**, 2012, Tohoku University, Japan
- **MS in Physics**, 2008, MSU-IIT
- **Bachelor of Science in Physics**, 2001, MSU-IIT

WORK EXPERIENCES

- 2012-2016 **Laboratory for Nanoelectronics and Spintronics, Research Institute of Electrical Communication, Tohoku University**
Post-Doctoral Fellow
Post-Doctoral Research Associate
- 2011 **Research institute of Electrical Communication, Tohoku University**
Teaching Assistant
- 2001-2009 **MSU-IIT**
Physics Instructor

To be Accomplished as a BSP Awardee:

1. Develop and design of the Master of Science in Materials Science and Nanotechnology curriculum in collaboration with the Dept. of Physics and College of Engineering of MSU-IIT.
2. Conduct a seminar-workshop on "Numerical design of quantum well heterostructures", "Spectroscopic Characterization of Quantum Cascade Lase", and "Physics and Material Science of CoFe*-MgO Perpendicular Magnetic Tunnel Junctions" to faculty and graduate students of MSU-IIT and other institutions.
3. Assist in the conduct of preliminary data gathering and review of related literature in writing a research proposal.
4. Writing and packaging research proposals with the MSU-IIT Physics Dept. and Chemical Engineering faculty members namely: (1) Arnold Alguno, Ph.D., Arnold Lubguban, Ph.D., Reynaldo Vequizo, Ph.D. on "Development of Quantum Well Photodetectors"; (2) Leo Cristobal C. Ambolode II, Ph.D. on "Utilizing Ferromagnetic Heusler Alloys for Magnetic Memory Applications" to be submitted to PCIEERD/CHED/USAID-STRIDE for possible funding.
5. Prepare research manuscript in relation to MSU-IIT's project on "Temperature Dependence of Detection Wavelength in Mid-Infrared Quantum Well Photodetectors" for publication in an ISI journal.