

## EXPERT'S PROFILE



**Name of Grantee** : **DR. ARNOLD C. ALGUNO**

**Area of Expertise** : Physics (Semiconductor Physics, Solar Cell Technology, Material Science Condensed Matter)

**Inclusive Date of Contract as BSP Awardee** : 2 September – 30 November 2009  
Short –Term Category

**Host Institution** : Department of Physics  
Mindanao State University – Iligan Institute of Technology

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### EDUCATIONAL BACKGROUND

- Ph.D. in Physics, Tohoku University, Sendai, Japan, 2006
- M.S. in Physics, Mindanao State University-Iligan Institute of Technology, Iligan City, 2002
- Certificate in Physics, Mindanao State University-Iligan Institute of Technology, Iligan City, 1999
- B.S. in Electrical Engineering, Saint Joseph Institute of Technology, Butuan City, 1995

### WORK EXPERIENCE

- **2007 - Present** - **JSPS Research Fellow**  
Research Institute of Electrical Communication  
Tohoku University, Japan
- **2006 - 2007** - **Post-doctoral Researcher**  
Tohoku University, Japan
- **2002 – 2003** - **Student Researcher**  
Institute for Material Research  
Tohoku University, Japan
- **1997 – 2006** - **College Instructor**  
Northern Mindanao State Institute of Science and Technology  
Ampayon, Butuan City, Philippines
- **1996 – 1997** - **College Instructor**  
Surigao Education Center  
Surigao City, Philippines

### To be accomplished as BSP Awardee:

1. Expect to develop proposals from interdisciplinary researches in the field of semiconductor for solar cell and photodetector applications with other research institution in the Philippines and Japan.
2. Lectures on crystal growth of Germanium Quantum Dots and its applications in solar cell and photodetector technology as well as the trends of renewable energy;
3. Give talk during the National Conference of Samahang Pisika ng Visayas at Mindanao on the trend and development of solar cell technology;
4. Meetings/site visits to other semiconductor research institutions in the Philippines to help stimulate collaborative researchers in the field of semiconductor and/or for scientific discussions; and
5. Develop a JSPS-Bilateral Program proposal with the solid state electronic engineering laboratory of the Research Institute for Electrical Communications of Tohoku University, Japan.