

EXPERT'S PROFILE

Name of Grantee : **Melanie Y. David**
Area of Expertise : Applied Physics
Inclusive Date of Contract as BSP Awardee : June 2011-June 2013
(Long-term Program)
Host Institution : College of Science, De La Salle University
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EDUCATIONAL BACKGROUND

- **PhD in Engineering**– Division of Precision Science and Technology and Applied Physics, Osaka University, Japan, 2008
- **MS in Physics**- De La Salle University, 2004
- **BS in Physics and Secondary Education**, De La Salle University, 1995

WORK EXPERIENCE

- 2010-Present **Associate Professor**
Physics Department, College of Science
De La Salle University
- 2010-2008 **Research Assistant Professor**
Graduate School of Engineering, Global Center of Excellence Program
Osaka University, Japan
- 2008-2005 **Research Assistant**
Graduate School of Engineering, 21st Century Center of Excellence Program
Osaka University, Japan
- 1997-2004 **Lecturer and Instructor**
De La Salle University
- 1996-1997 **Process Engineer**
NEC Components Philippines, Inc. Laguna

TO BE ACCOMPLISHED AS A BSP AWARDEE :

1. Set-up initial preparations for studying electrode interaction for fuel cells;
2. Identify best/appropriate materials to be used for hydrogen fuel cell;
3. Collaborate with researchers or professors having the same field in nanoscale modeling/computational physics with regards to the experiments to be done;
4. Conduct studies of different materials that could be used in storing hydrogen, biosensors and nanosensors for environment;
5. Attend conferences, publish papers and collaborate with different private companies and institutes;
6. Conduct Computational Materials Design Workshop to be participated by students and researchers in the country; and
7. Give lectures and present papers in workshops, conferences and symposiums, advise students in their research and thesis and recommend students for practicum and possible employment to industries