

EXPERT'S PROFILE



Name of Grantee: Dr. Hernando S. Salapare III
Area of Expertise: Plasma Physics, plasma processing, biomaterials
Inclusive Date of Contract: as BSP Awardee: Short-Term Program
01 February – 07 May 2016 (90 days)
Host Institution: UP Manila – Dep't of Physical Sciences and Math
UP Baguio – Dep't of Physical Sciences
E-mail Address: hssalapare@up.edu.ph

EDUCATIONAL BACKGROUND

Post-Doctoral Research Fellow, 2015, Université de Nice-Sophia Antipolis, France

PhD in Physics, 2014, UP Diliman, Quezon City

PhD in Physics, Chemistry and Materials Science, 2012, Université de Nice-Sophia Antipolis, France

MS in Physics, 2010, UP Diliman, Quezon City

BS Applied Physics, 2007, UP Diliman, Quezon City

WORK EXPERIENCES

2015 – March 2016 **University of the City of Manila, Philippines**
Professorial Lecturer I

Universities Space Research Association (USRA), Houston, Texas, USA
Visiting Scientist

2013 – 2014 **eUP-UP Systems: Policies & Standards, Risk Mgt, Academic Info System, Quality Assurance**
Team Leader

2011 - 2012 **KLM Packaging, Philippines**
Senior Science Specialist

2008 - 2011 **National Institute of Physics, UP Diliman**
Instructor

2007 - 2008 **Plasma Laboratory, National Institute of Physics, UP Diliman**
Science Research Assistant

TO BE ACCOMPLISHED AS A BSP AWARDEE

UP Manila

1. Public seminars and lectures: (1) Plasma Processing: Nanotechnology, (2) Surface and Interface Science: Mechanical and Cellular Adhesion, and (3) Plasma Medicine: Bioengineering and Biomaterials
2. Trainings and Workshops: Scientific Paper Writing and the Publication Process
3. Packaged research project proposal/s ready for submission to DOST-PCIEERD and other funding institutions
4. Collaborative research and provide technical assistance to faculty, staff, and students in writing scientific manuscripts for possible submissions to ISI-indexed journals.
5. Assist in the implementation and provide expert assistance to the PCIEERD-GIA project of Dr. Magdaleno Vasquez, Jr. entitled "Development of a Low-energy Ion Source System for the Synthesis of Diamond-like Carbon Films".
6. Develop a technology roadmap for UP Manila that is in line with its thrust to be a center for Health Physics in the Philippines.

UP Baguio

1. Public seminars and lectures: (1) Vacuum and Atmospheric Plasmas: Plasma Physics and Plasma Chemistry, (2) Plasma Processing: Nanotechnology, and (3) Surface and Interface Science: Mechanical and Cellular Adhesion.
2. Trainings and Workshops: Scientific Paper Writing and the Publication Process
3. Packaged research project proposal/s ready for submission to DOST-PCIEERD and other funding institutions
4. Collaborative research and provide technical assistance to faculty, staff, and students in writing scientific manuscripts for possible submissions to ISI-indexed journals.
5. Assist in the implementation and provide expert assistance to the DOST-funded research on "Establishment of a plasma physics laboratory for materials processing applications" of Prof. Giovanni M. Malapit, Ph.D.
6. Develop a technology roadmap for UP Baguio that will boost its research and development capability in the basic, theoretical and applied physics.