

## EXPERT'S PROFILE



**Name of Grantee** : **DR. MANUEL V. HERNANDEZ**  
**Area of Expertise** : Theoretical condensed matter physics  
**Inclusive Date of Contract as BSP Awardee** : Short-Term Program  
11 July – 23 October 2015  
**Host Institution** : Metals Industry Research and Development Center (MIRDC)

### EDUCATIONAL BACKGROUND

- **PhD in Mechanical Engineering**, 1983, University of Florida
- **MS in Mechanical Engineering**, 1979, University of Florida
- **BS in Mechanical Engineering**, 1975, University of the Philippines Diliman

### PROFESSIONAL EXPERIENCE

- 2006 – 2007 **University of the Philippines**  
Professorial Lecturer
- 2006 **Department of Mechanical Engineering, UP Diliman**  
Research Associate
- 1976 - 2005 **College of Engineering, UP Diliman**  
Instructor to Full Professor
- 1997 - 2005 **ACME Tools Company**  
**Baltimore Spice Corporation**  
**MK Screens**  
**Malakas Steel Mill**  
**Argo Steel Fabrications**  
Consultant
- 1994 - 1996 **SteelAsia Manufacturing Corporation**  
Vice President for Engineering and Special Projects
- 1992 - 1994 **MK Screens**  
Engineering and R&D Head
- 1988 – 1992 **H.M Montenegro Group of Companies**  
Vice President for Engineering and Maintenance
- 1984 – 1987 **Department of Mechanical Engineering, UP Diliman**  
Chairman
- 1984 **Tariff Commission**  
Consultant

### TO BE ACCOMPLISHED BY THE BSP AWARDEE

1. Consultation for AGT, LRT, and Railway Train Project
2. Development and refinement of the design of the following industrial equipment:
  - a. Continuous vacuum packaging machine

- b.** Continuous vacuum fryer
  - c.** Automatic trash rake
  - d.** Continuous immersion freezer
  - e.** Microwave vacuum dryer vessel
- 3.** Formulate a concept design for complementary food plant and coconut water processing plant
- 4.** Formulate a concept design and lecture series on food processing equipment
- 5.** Establish gear-making facility