

## EXPERT'S PROFILE

**Name of Grantee** : **RICHARD D. ALORRO, PhD**  
**Area of Expertise** : **Geo-environmental Engineering**

**Inclusive Date of Contract as BSP Awardee** : **Short-Term Program**  
02- 16 December 2018  
02-31 January 2019

**Host Institution** : **Mindanao State University- Iligan Institute of Technology**



## EDUCATIONAL BACKGROUND

- **Ph.D. in Engineering**, 2006, Hokkaido University, Japan
- **Post Grad Diploma in Sustainability Science**, 2008, Hokkaido University, Japan
- **Master of Engineering**, 2007, Hokkaido University, Japan
- **BS in Metallurgical Engineering**, 2002, Mindanao State University – IIT (MSU-IIT)

## PROFESSIONAL EXPERIENCE

- 2013-present **University Lecturer**  
Western Australian School of Mines, Curtin University, West Australia
- 2011-2013 **Metallurgist**  
Toyota Tsusho Corporation, Nagoya City, Japan
- 2010-2011 **Postdoctoral Researcher**  
Graduate School of Engineering, Hokkaido University, Japan
- 2004-2005 **Quality Control Engineer**  
Global Steel Philippines Incorporated, Iligan City, Philippines
- 2002-2004 **Associate Lecturer**  
College of Engineering, MSU - IIT

## TO BE ACCOMPLISHED AS A BSP AWARDEE

1. Assist and provide guidance in the scoping study on "Coal Fly Ash as a Secondary Resource of Rare Earths and other Strategic Elements: Amenability to Metallurgical Processing" and in the implementation on the PCIEERD-GIA, "Metallurgical Processing of Coal Fly Ash as Secondary Resource of Rare Earths and other Critical Elements in the Philippines"
2. Conduct special seminars and lectures to undergraduate and post-graduate students, academic staff members, and government and industry representatives from MSU-IIT and other universities in Mindanao.
3. Assist in the preparation of research manuscript/s for publication

4. Assist MSU-IIT College of Engineering and Technology in mentoring graduate and senior undergraduate students on research and development of Metallurgical Engineering, Materials Science and Engineering, and Sustainable Development
5. Explore collaboration with the Central Mindanao University, Caraga State University and University of Southern Philippines
6. Investigate and explore other potential sources of rare earth elements (REE) and other critical metals in the Philippines through literature review and data gathering from MGB, DoE and other agencies and industries