Mr Bui Le Duy is a researcher from the Vietnam National Institute of Malariology, Parasitology and Entomology (NIMPE). He has a Master of Biology from Vietnam National University College of Science in Hanoi and is currently completing his PhD in Entomology at the NIMPE.

During his APMEN Thematic Fellowship with VecNet, Bui Le Duy will learn to design in-silico experiments, parameterize and run models to address questions posed by in-silico experiments. He will develop a basic understanding of the EMOD and OpenMalaria models to analyze malaria transmission control and elimination models using data acquired from the National Malaria Control Program of Vietnam, his home country.

“This fellowship will improve my ability to help the implementation of the malaria program in Viet Nam, and my understanding of the EMOD and Open Malaria models using data from Viet Nam to analyze malaria transmission, control and elimination.”

Mr Bui Le Duy, National Institute of Malariology, Parasitology and Entomology, Vietnam

Host Mentor Organisation: VecNet is a consortium of institutions assembled to address the need for new strategies to eliminate malaria. This requires an understanding of how interventions affect the transmission of the disease across different geographic areas where the mosquitoes that transmit malaria differ in their behaviour. The majority of the fellowship will take place at the University of Notre Dame, in South Bend, Indiana, USA. The University of Notre Dame’s major malaria research activity includes directing the Malaria Transmission Consortium, a group of scientists at multiple research institutions who work on developing more effective ways to measure malaria transmission and use those measures to better assess the effectiveness of malaria control methods that target mosquito vectors.

Host Mentor Supervisor: Dr Frank Collins is Professor of Biological Sciences at the University of Notre Dame and the director of the Malaria Transmission Consortium. He is one of the key figures in the 2002 sequencing of the genome of Anopheles gambiae, the primary mosquito species that transmits the malaria parasite Plasmodium falciparum to humans. In addition, Professor Tom Burkot from APMEN Partner Institution James Cook University (JCU) in North Queensland, Australia, is the Orchestrator of VecNet and greatly assists the APMEN Thematic Fellowship program.