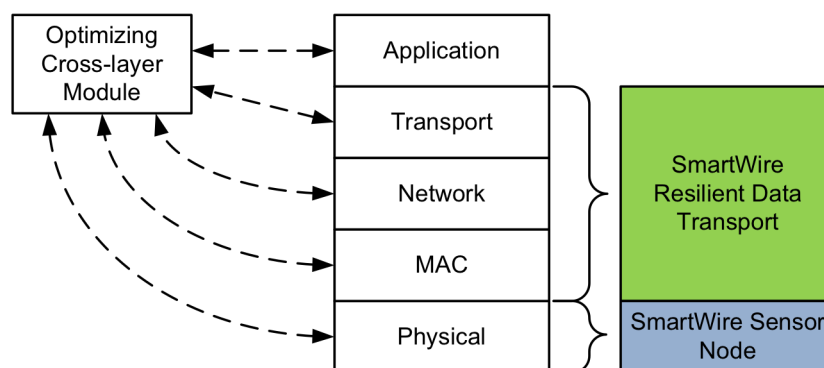


## CALL FOR APPLICATIONS

### SmartWire Resilient Data Transport Project

#### Description:

The aim of this project is to develop energy efficient and resilient data transport mechanisms for the SmartWire sensor network. These mechanisms, as shown in the figure below, will span the medium access control (MAC), network, and transport layers of the network stack. Additionally, we intend to leverage the cross-layer optimization design approach that has been shown to provide better network performance compared to the traditional layered approach. However, such approach needs to be used with caution. Thus, we need to develop suitable network protocols and mechanisms and ensure coordination of optimization processes at the different layers of the protocol stack.



#### Positions Available:

- Senior Science Research Specialist (PHP 40,631/month)
- Science Research Specialist II (PHP 32,254/month)

Duration: 24 months

#### Requirements:

- Bachelor's degree in Computer Engineering, Computer Science, or related fields
- Knowledge in wireless networks and computer simulations
- Tools: ns2/ns3, Matlab, WSN hardware platform

#### Contact:

Nestor Michael C. Tiglao  
nestor@eee.upd.edu.ph  
Room 313, EEE Institute  
University of the Philippines  
Diliman, Quezon City 1101  
Tel. 981-8500 local 3323  
<http://www.nestortiglao.info>