

## **Title: Enhancement of Student Enrolment at Albany State University through Four Year Engineering Technology Program**

### **D. Personnel Description**

Project Director ---- Dr. Arun K Saha

Dr. Arun K Saha, Associate Professor of Physics & Pre-Engineering is a faculty in the Department of Natural Science. He obtained his Ph.D in Electrical & System Engineering from Yamaguchi University, Japan. Dr. Saha has been teaching algebra-based Introductory Physics I & II (for Biology, Nursing, and Forensic Science major), calculus-based Principles of Physics I & II (for Engineering, Math and Chemistry majors) and Computer Application course for last 5 years. Dr. Saha also supervises the Laboratory of both Physics. Dr. Saha also actively involved in various projects funded by NASA and Department of Defense (DoD). He is a recipient of DoD funded “Translational Breast Cancer Research” in which his role is a co-PI to characterize breast cancer cells and normal cells by electromagnetic wave. Recently Dr. Saha, together with Dr. Chan, brings significant improvements in Physics Laboratory experiments by utilizing various sensors and Bluetooth enabled iPads exploiting its remote or wireless data acquisition technology. Hence he has the necessary credentials and hands on experience to conduct this project.

Co Project Director 1 ---- Dr. Kwaichow Chan

Dr. Kwaichow Chan is a Professor of Physics in the Department of Natural Sciences of Albany State University. Dr. Chan will provide his expertise to introduce latest technology in classroom and laboratory instruction. He will help participants to select and download necessary application software from app stores. Dr. Chan will introduce various sensors (motion, voltage/current) and their applications in classroom and/or laboratory instruction incorporating the mobile devices such as iPads or iPhones in remote data acquisition.

Co Project Director 2 ---- Dr. Liqiu Zheng

Dr. Liqiu Zheng is an assistant professor of Physics, a faculty in the Department of Natural Science. She obtained her Ph.D in Physics from Clemson University, USA. Dr. Zheng has been

teaching algebra-based Introductory Physics I & II (for Biology, Nursing, and Forensic Science major), calculus-based Principles of Physics I & II (for Engineering, Math and Chemistry majors) and Computer Application course for last 5 years. Meantime, she supervises the Laboratory of both Physics. Dr. Saha also actively involved in various projects funded by NSF. She is a recipient of Target Infusion Project supplemental project. Recently Dr. Zheng, solely brings \$29, 9914 grant sponsored by NSF for the project of developing environmentally friendly high performance perovskite solar cells with fortified stability. From January 2015 to April 2016, Dr. Zheng was leading a college faculty teaching community, supported by Title III, to leverage QR for improving student learning outcomes. Overall, her past experiences speak volumes for her qualification to carry out the proposed project.