

# STUDENT RESEARCHERS WANTED

... to help support an **Aquaponics-based research question**  
for the **spring 2020 semester**

Presidential Research Grant #12

## **HU Aquaponics Monitoring and Control System (HU AqMCS)**

This project involves the design and implementation of technology that will regularly take measurements within the aquaponics environment. PLCnext Technology (created by Phoenix Contact) will systematically collect, store, and web-publish the measurement data for HU researchers and the public to use for scientific research.

We are looking for **2 (two) HU Undergraduate Students** to:

- learn the important parameters that need consideration within an aquaponics setting and the various types of outputs and ranges that would be appropriate in such a dynamic ecosystem (Biology & Chemistry & Environmental)
- work with individual channel sensors to determine the key components required for functional sensor design (Computer Science & e-Business & Cybersecurity)
- understand the design requirements for the PLC control platform (Computer Science & Advanced Manufacturing)

Join our team to gain first-hand understanding as to how these technologies are important in an aquaponics research laboratory!

If interested, please email [Aquaponics@HarrisburgU.edu](mailto:Aquaponics@HarrisburgU.edu) by **December 6<sup>th</sup>** for additional details related to the research question of interest to you, and to schedule a time for an interview.