

## **MUREP Precollege Summer Institute (PSI) - (MUREP PSI)**

**Title: HAWKS MUREP Precollege Summer Institute**

**Institution: University of Maryland, Eastern Shore**

**City/State: Princess Anne, MD**

**PI: Joseph Arumala**

### **Summary:**

A team of University of Maryland, Eastern Shore (UMES) Scientists and Engineers is planning to establish the HAWKS MUREP Precollege Summer Institute (PSI), a two-week residential program designed to increase the participation and retention of historically underserved and underrepresented high school students in STEM areas and equip them for success in college degree programs and eventually STEM careers.

The HAWKS MUREP PSI will provide female, historically underserved, and underrepresented high school students with STEM learning activities aligned to NASA's themes of space exploration, aeronautics, and Earth Science. In one activity, students will have the opportunity to work in a Nano Research Laboratory on the UMES campus making nanofibers. The PSI will also offer an SAT preparation component. Through the PSI, student participants will build a powerful connection to University of Maryland Eastern Shore's faculty mentors/ advisors, and peers who share interests in STEM. Additionally, NASA Wallops Flight Facility has agreed to partner with UMES in this project whereby the high school student participants will have access to NASA Wallops FCC's engineers, scientists and facilities for mentoring, job shadowing, and involvement in real-life STEM Projects, Research and Activities.