Summer 2017 UNPAID Internship Programs

(for ages 16 and above)

1. Radar Introduction for Student Engineers (RISE), June 19 - July 7, 2017

High school seniors and college underclassmen who are passionate about science, math, and engineering will gain an in-depth experience learning about small radar systems, and will be challenged to work with and test a Doppler and range radar system. Students must be U.S. citizens, and must have completed Physics and Pre-calculus. This RISE Internship program will include interactions and mentoring from scientists and engineers, and will provide tours of various sites, including those involving radar systems. Ten students will be accepted. Upon completion of the internship, students will be required to prepare a PowerPoint presentation and brief their internship experiences to NAVAIR/NAWCAD leadership.

1. Unmanned Aerial Systems Internship Program (UASIP), June 26 – Aug 18, 2017

The Unmanned Aircraft Systems Test Directorate (UASTD) at Webster Field will host high school juniors, seniors and college underclassmen, preferably with previous radio-controlled (RC) aircraft or drone experience, and/or who have participated in a UAS4STEM or other drone competition. This is a hands-on program that will focus on: flight test support, aircraft safety, aircraft operations, aircraft maintenance, and UAS flying. Students will witness and participate in actual UAS test flights as an integral part of the test team. They will be assisting in all phases of the evolution (planning, testing, data collection, and reporting). Also they will be provided an opportunity to learn to fly quadcopters and fixed wing remote control aircraft. Ten students will be accepted. Upon completion of the internship, students will be required to prepare a PowerPoint presentation and brief their internship experiences to NAVAIR/NAWCAD leadership.

1. Supercomputing Internship Program (SIP), July 5 – Aug 4, 2017

This is the third year of the Supercomputing Internship Program, and it is open to high school juniors, seniors, and college underclassmen. It requires moderate experience in programming in C, C++ or Java. Students will assemble mini-supercomputers (Beowolf clusters) and will advance their programming skills through threads, vectors, OpenMP and MPI, aiming to attain the level of parallel processing on the mini supercomputers. This is a programming intensive internship. Students will also have the opportunity to hear from guest speakers and to tour various sites on station. Twenty students will be accepted. Students will be required to complete a computer-oriented case study, resulting in a research paper. Upon completion of the internship, students will be required to prepare a PowerPoint presentation and brief their internship experiences to NAVAIR/NAWCAD leadership.

**Students can apply by sending a resume and cover letter specifying program of interest to Holly Kellogg at** [**hollykellogg@navy.mil**](mailto:hollykellogg@navy.mil)**. For additional questions, feel free to call her at 301-995-2082.**