

The new expanded mission is to support the Coast Guard Command and Control systems on all ships and shore units, plus develop and maintain new integrated navigation systems including the latest advancements in electronic charting systems.

The facility is approximately 25,000 sq. ft and it contains full scale computer mock-ups of all major Coast Guard command and control systems. These mock-ups are used for training, engineering development, and maintenance.

Intern Projects:

Prospective interns will work on engineering design projects for one of the following systems.

Port and Coastal Security System (PCSS)



The Mission of the Coast Guard is to protect the public, the environment, and U.S. economic interests - in our ports and waterways, along our nation's coasts, in international waters, or in any maritime region as required to support national security. PCSS monitors and tracks commercial vessels on the coast and in port areas using radar, cameras, and Automatic Identification Systems (AIS) sensors. Watch standers monitor all vessels, using sophisticated tools to detect anomalous behavior. After examination of vessel data from multiple sources, the operator can choose to dispatch Coast Guard and port partner assets using the Blue Force Tracking (BFT) system. PCSS data is transmitted to the Coast Guard Common Operating Picture (COP). The CG COP integrates PCSS data and data from other sources to provide a national depiction of maritime activities.



Vessel Traffic Service (VTS)



Originating in the Ports & Waterways Safety Act of 1972, VTS's were installed in four ports: New York, Seattle, San Francisco and Houston/Galveston. They were later outfitted with CGVTS Core C2 system using data from remote sensors (radar, VHF-FM voice, camera video, etc.) into the Vessel Traffic Center (VTC). Data displayed in a graphical interface, chart-based format provides early recognition of potentially dangerous situations at the VTC. In 1996, Congress directed USCG to revisit the VTS program, resulting in deployment of Lockheed Martin's MTM 200 software-based PAWSS system in VTS Houston/Galveston and New York. Five additional VTS's also were established.

Internship Details:

C2CEN is primarily an electrical engineering center; the preferred candidates would have a background in an engineering discipline. Interns within the local area are preferred. Previous interns have found suitable housing on the economy. Sponsors will make every effort to help interns find suitable housing and work with interns to ensure scheduling flexibility. Security clearances are not necessary and will not be processed during the internship. For more information please use the contact information below.

Contact Information:

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