

## **Charleston STEM Outreach**

**Employees:** Approximately 2,663

### **K-12 Educational Partners:**

Berkeley County School District  
Charleston County School District  
Colleton County School District  
Dorchester County School District

## **Programs:**

### **Career Academies**

Career Academies are schools within middle or high schools where students can enter focused, career-based fields of study, similar to that of a college or university. In these academies, students work in a learning environment that reflects the atmosphere and expectations of a real-world workplace.

### **DimensionU**

DimensionU encourages students to learn and practice math. SSC Atlantic hosts and sponsors an annual DimensionU competition in which students from local middle schools compete against each other. Finalists compete virtually with students from across the country in the annual Department of Defense Math Games tournament. Students must solve problems to move successfully through each phase of the game.

### **Lunch Buddy**

In 2000, the Charleston campus partnered with Hanahan Middle School, located in proximity to our Hanahan and North Charleston offices. Employees connect with students by showing an interest in their lives. Buddies meet monthly during the school year. Buddies can participate in special sessions focusing on STEM and social skills.

### **“My Brother’s Keeper” Summer Camp**

The camp is designed to help rising 7<sup>th</sup>, 8<sup>th</sup> and 9<sup>th</sup> grade boys of color reach their full potential by empowering them to build opportunities for developing independence through education and career prospects. The event incorporates the concept of a “whole being” by introducing young men to STEM careers through mentoring, the importance of healthy nutrition, and necessary etiquette techniques and soft skills. The goals are to ensure these young men enter school cognitively, physically, socially and emotionally ready; to ensure all youth graduate from high school and complete post-secondary education or training; and to ensure all youth out of school are employed.

### **National Society of Black Engineers**

Members of the National Society of Black Engineers (NSBE) at SSC Atlantic strive to increase the number of culturally responsible black engineers to excel academically, succeed professionally and positively impact the community by:

- Stimulating interest in the various engineering disciplines,
- Increasing the number of minority students studying engineering at both the undergraduate and graduate levels,
- Encouraging others to seek advanced degrees in engineering or related fields,
- Promoting public awareness of engineering and the opportunities for blacks and other minorities, and
- Being a representative body on issues and developments that affect the careers of black engineers.

### **Palmetto Cyber Defense Competition**

Developed solely by SSC Atlantic, the Palmetto Cyber Defense Competition (PCDC) is a three-day competition -- a day for high school teams, a day for college students, and a pro day with embedded college students. The PCDC promotes Cyber Security education and awareness. The competition is intended to invigorate students with focused curriculum development for the technical skills that are needed in today's fast paced and challenging cyber environment.

### **SeaPerch**

Employees serve as technical mentors, judges, and referees for an underwater Remotely Operated Vehicle (ROV) Competition. Building a SeaPerch ROV teaches basic skills in ship and submarine design and encourages students to explore naval architecture and marine and ocean engineering principles. It also teaches STEM concepts, problem solving, and teamwork. Students learn important engineering and design skills and are exposed to the exciting careers that are possible in naval architecture and naval, ocean, and marine engineering.

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