

Science  
Technology  
Engineering  
Math



**Naval Surface Warfare Center Philadelphia Division (NSWCPD)** in Philadelphia began implementation of the National Defense Education Program (NDEP)-supported science, technology, engineering, and mathematics (STEM) initiative in 2008. The organization works with schools in the School District of Philadelphia and in surrounding counties within the tri-state region of Pennsylvania, New Jersey, and Delaware. Schools range from inner-city, large suburban, and small rural schools. STEM initiatives which have been undertaken in Philadelphia include festivals and science fairs, classroom activities, outside classroom activities, mentorship and internship activities, and teacher and science and engineering training. NSWCPD partners with various universities and organizations to carry out these programs and is continuously looking for new opportunities to contribute to the development of talent within science, technology, engineering, and mathematics.



**For more information, contact the  
NSWCPD STEM Outreach Coordinator at  
215-897-1078.**

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NAVAL SURFACE WARFARE CENTER  
PHILADELPHIA DIVISION

**SUPPORTING THE NEXT STEM GENERATION**

**STEM** Outreach



After School Programs



Summer Camps



Students & Interns



SeaPerch



Robotics



Science Festivals



Naval Engines

<https://propulsion.navsses.navy.mil/dnn/stem/home.aspx>





## After School Programs

215-897-1078

NSWCPD volunteers lead STEM outreach at several area elementary, middle, and high schools. Partners include Drexel University, Philadelphia University, and Temple University. Volunteers mentor hundreds of students after school to increase student proficiency in STEM skills.



## Summer Camps

215-897-7596

NSWCPD partners with local universities for two-week summer camps for underserved and underrepresented students. The camps challenge students with curriculum in energy, robotics, and automation. The camps increase awareness and interest in STEM careers particularly careers in engineering, power and energy, and national security and defense.



## Robotics

215-897-1078

NSWCPD STEM representatives work with local schools' robotics clubs to prepare for and participate in various robotics competitions throughout the country. [www.usfirst.org](http://www.usfirst.org)



## Naval Engines

215-897-7258

NSWCPD conducts the Naval Engines Design Program. It is a cohort of classroom, laboratory, and hands-on learning about Navy shipboard propulsion and power generating machinery including gas turbines, diesel engines, steam turbines, and machinery controls.



## Students & Interns

215-897-1625

NSWCPD hires college and high school students each summer as paid interns to work with mentors on projects to give students an understanding of the day to day job of Naval Engineering and what it means to participate in an engineering project from start to finish. The Science and Engineering Apprenticeship Program is for high school students (<http://seap.asee.org>). The Naval Research Enterprise Internship Program is open to undergraduate and graduate college students (<http://nreip.asee.org>).



## SeaPerch

215-897-7369

The SeaPerch Challenge requires students (Middle and High School) to build underwater remotely operated vehicles (ROV) according to Navy requirements and within an allowable budget to compete in the Greater Philadelphia SeaPerch Challenge. The goal is to increase student interest in robotics, science, mathematics, engineering and technology and to introduce students to naval engineering. [www.phillyseaperch.org](http://www.phillyseaperch.org)



## Science Festivals

215-897-1078

The Philadelphia Science Festival is an annual celebration of science featuring lectures, debates, hands-on activities, special exhibitions and a variety of other informal science education experiences for Philadelphians of all ages. NSWCPD volunteers support activities produced by local universities. [www.philasciencefestival.org](http://www.philasciencefestival.org)