

Science
Technology
Engineering
Math



Naval Surface Warfare Center Philadelphia Division (NSWCPL) 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. NSWCPL 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
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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

Contact Peter Mark at 215-897-1078

NSWCPL 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

Contact Irene Katakinski at 215-897-7596

NSWCPL 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

Contact Peter Mark at 215-897-1078

NSWCPL STEM representatives work with local schools' robotics clubs to prepare for and participate in various robotics competitions throughout the country. www.usfirst.org



Naval Engines

Contact Mike Zekas at 215-897-7258

NSWCPL 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

Contact Kelley Woessner at 215-897-1625

NSWCPL 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

Contact Steve Michetti at 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



Science Festivals

Contact Peter Mark at 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. NSWCPL volunteers support activities produced by local universities. www.philasciencefestival.org