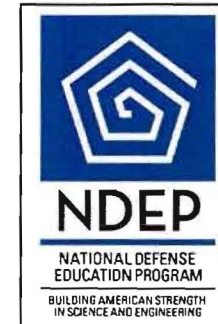




Education Outreach Program
2010/2011 School Year
 Naval Air Warfare Center Aircraft Division
 Naval Air Systems Command
 Patuxent River, Maryland



The following table lists major program offerings from the education outreach office at the Naval Air Warfare Center Aircraft Division, Patuxent River, Maryland. Request a tour, speaker or other activity by using the services request form located on the website. www.ndep.us/labspax.aspx (Behind the Scene tab, Educators section). Requests should be submitted at least four weeks in advance of the program date to Kathy Glockner (Kathryn.Glockner@navy.mil) or Karen Lane (Calvert County only) (Karen.Lane.ctr@navy.mil).

Program	Grades	Ideal Size	Description
Tours	ES, MS, HS	30 (can handle groups up to 50 with modifications to the format)	The outreach office organizes tours to complement science, technology, engineering and mathematics or business curriculum to provide real world examples of classroom lessons. Specialized tours in aviation, chemistry, physics, environmental science and more can be arranged. For elementary schools, we will also coordinate your visits to the Naval Aviation Museum along with your tour on base. Tour requests should be no less than one month in advance to allow for planning time. To learn more about Pax River, log onto www.navair.navy.mil/nawcad
Pax River 101	MS, HS	NA	A representative from Pax River will provide students an overview of the base mission. We suggest this briefing be followed within one week by a tour of the base scheduled through the office.
Science Fair	MS, HS	NA	A representative from the base with experience in the science fair program will brief students on the science fair program. This presentation should be scheduled in September. Additionally, the base will provide local schools judges for in-school science fairs.

The Case of the Challenging Flight	4 – 8 grade	Normal class size	Students will watch a one-hour DVD in four 15 minute segments shown in the classroom by the teacher prior to the engineer visit. The engineer will provide four classroom visits providing a hands on demonstration and presentation on the forces of flight. This program should conclude with a tour to the base organized by this office.
“What’s an Engineer?”	MS, HS	NA	This comprehensive overview will expose students to the difference between a scientist and engineer, work that engineers do, and how students can create their own pathway to a career in science, technology, engineering or mathematics. The speaker will provide the magazine, <i>“Engineering Go For It”</i> which was purchased through funds from the National Defense Education Program (NDEP).
“Math in the Real World” In School and After School Robotics St. Mary’s County	ES, MS	Normal class size	Through a grant from NDEP and in partnership with the Naval Sea Systems Command Indian Head, an in-school 11 week program is available, along with support for after school clubs for elementary schools. Schools have already been designated for the in-school program for the 2010/2011 school year. Volunteers are needed to support the after school program, and employees can contact Tom Palathra at Thomas.Palathra@navy.mil or call (301) 744-4106
After School Clubs	ES, MS	NA	The office will schedule speakers for after school clubs in STEM topics. Kit activities may also be provided.
STEM Project Development	E, MS, HS	Normal Class size	The education outreach office will set up meetings with teachers who wish to launch a unique project but need help from a scientist or engineer.

Speakers' Bureau	ES, MS, HS	NA	If you're looking for a speaker on a specific topic to reinforce classroom lessons, then contact the office for assistance. Aviation science, atom cooling, heat transfer, catapults, lasers, math modeling, alternative fuels, machines, computer technology, structures, electricity, radar, engineering topics, and more can be arranged. Log onto www.navair.navy.mil/nawcad to learn more about the base.
Summer Jobs	16 yrs +	This briefing is suitable for larger audiences or may be given to smaller groups.	Each summer, the base hires a limited number of students through several different programs. The outreach office will provide an overview of the positions, and step students through the application process. This is primarily focused on students who are pursuing STEM higher education and business degrees. We recommend scheduling this presentation in November, December or January to provide students adequate time to prepare their resumes and apply.
Non Paid Internships	HS	NA	The office will evaluate applications from schools for non-paid internships. Students interested in working in science and engineering career fields may be placed in research, development, test and evaluation facilities. The internship request must be submitted through a partner school.
"Where in the World is Pax River?"	Career Counselors, Science Educators	NA	This is suitable for a one hour professional development session. "Coaching Students about Engineering" and "Where in the World is Pax River?" The first segment focuses on the "Engineer Your Life" research and offers opportunities to change the message about careers in STEM. "Where in the World is Pax River?" focuses specifically on education pathways and careers at Pax River.
FIRST Robotics	MS, HS	NA	The outreach office has a designated engineer, Randy Gross, who will work with schools in providing mentors from the base for FIRST teams. Grants to fund start up teams may be available in the spring 2011 from the National Defense Education Program office and partner schools will be notified of this opportunity.

Science Fair Judges	MS, HS	NA	The outreach office will provide a limited number of judges for in-school science fairs. The county science fairs advertise for judges separately.
STARBASE-Atlantis http://starbasedod.org/	5 th Grade	NA	STARBASE - Atlantis is a premier educational program, sponsored by the Office of the Assistant Secretary of Defense for Reserve Affairs, located in building 588 at Pax River. Students participate in challenging "hands-on, mind-on" activities in aviation, science, technology, engineering, math, and space exploration. They interact with military personnel to explore careers and make connections with the "real world." NAWCAD employees are needed at the school to support the teachers for computer aided design, flight simulation and rocket launches. Contact the director, Julie Guy, at (301) 342-2789.
Teacher Employment	HS	NA	The office hires a limited number of science teachers over the summer to collaborate with scientists and engineers to develop lesson plans and projects to bring back to the classroom. Post a resume at www.navair.navy.mil/jobs
Special Events	ES, MS, HS	NA	The outreach office participates in large scale public STEM related expos such as the Youth in Technology Summit at the College of Southern Maryland (November 13, 2010), Jump Start Junior at Capitol College and the ISTEM program at Morgan State. Displays may be available in alternative fuels, sensors, physics, aviation, crashworthiness testing and flight simulation. Requests should be made at least four months in advance of the event to Kathy Glockner (301) 342-2281.
Grants	All partner schools	NA	On a limited basis, the education outreach office may provide grant opportunities to partner schools via the federal grants program listed on www.grants.gov