



2014
Northrop Grumman
Foundation
Annual Report

A Message From the President



On behalf of the Northrop Grumman Foundation and its Board of Directors, it is my pleasure to present our 2014 annual report.

Our goal is to fund science, technology, engineering and math education (STEM) projects and programs that make a difference in the lives of students and their teachers. This annual report highlights a few of our initiatives and activities; we hope you are as excited by these programs as we are.

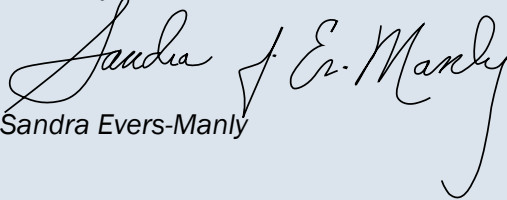
Additionally, we are pleased to support our employees as they fund a variety of educational endeavors across the nation through our Matching Gifts for Education program.

As Northrop Grumman's business has expanded internationally, our Foundation has taken a role in exploring programs that provide global STEM opportunities. We are especially excited about the opportunity to support students and their teachers around the world.

It is such an honor to be able to meet students and teachers and bring unique education opportunities to them. What we do makes a difference in their lives today and in the future of our world. If you would like more information about the Foundation, please visit: www.northropgrumman.com and keyword search: foundation.

Thank you for your interest in the Northrop Grumman Foundation.

Sincerely,


Sandra Evers-Manly





Foundation Overview

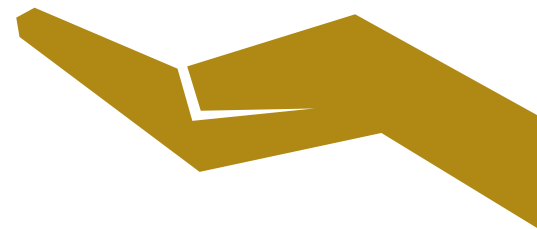
The Northrop Grumman Foundation supports diverse and sustainable national-level education programs for students as well as educators. The programs and initiatives highlighted in this annual report create innovative STEM experiences. We have two primary methods for giving: Matching Gifts for Education and Foundation grants.

Matching Gifts for Education

The Foundation matches the first \$1,000 per employee for donations made to qualifying education organizations each year.

\$8,791,810

2014 STEM Education Funding



\$326,448

K-12 Programming

+

\$359,328

Aid to Higher Education

= \$685,776

Matching Gifts Total

Giving Category Request

General/Annual Fund - 947
Specific Departments - 378
Scholarships - 153
Other - 186

Where do donors give?

California	Pennsylvania
Maryland	Colorado
Massachusetts	Indiana
New York	Illinois
Virginia	Ohio

Matching Gift Levels

Below \$100 - \$10,248
\$100-\$499 - \$175,142
\$500-\$999 - \$164,886
\$1000 and above - \$335,500

TOP 25

Matching Gift Recipients

Manhattan Beach Education Foundation.....	\$18,095
University of California, Los Angeles	\$17,025
Peninsula Education Foundation	\$16,455
Kansas State University	\$13,600
Purdue Foundation	\$10,225
University of Nevada, Reno Foundation	\$10,000
Virginia Tech Foundation	\$ 8,850
University of Southern California	\$ 8,125
Hermosa Beach Education Foundation	\$ 7,550
Massachusetts Institute of Technology	\$ 7,175
Georgia Tech Foundation	\$ 7,085
Rensselaer Polytechnic Institute	\$ 6,710
Union College	\$ 6,300
Mount St. Joseph High School	\$ 6,288
U.S. Naval Academy Foundation	\$ 5,530
University of California, Berkeley Foundation	\$ 5,450
Harvey Mudd College	\$ 5,050
Leland Stanford Junior University	\$ 4,900
Redondo Beach Educational Foundation	\$ 4,630
University of California, Santa Barbara.....	\$ 4,520
USAFA Endowment Inc.	\$ 4,340
The Pennsylvania State University	\$ 4,050
Ohio State University Foundation	\$ 4,000
Orange County School of the Arts	\$ 4,000

2014 Partners

- U.S. Space and Rocket Center
- MATHCOUNTS Foundation
- Kennedy Krieger Institute (Moto Research Center)
- Fab School Labs
- Thelonious Monk Institute of Jazz (National Public School Education & Community Outreach Programs)
- National WWII Museum
- National Center for Women & IT
- Jackie Robinson Foundation
- City Year
- US / Australia Association
- Sally Ride Science
- Air Force Museum Foundation
- Teach For America, Inc.
- Great Minds in STEM
- Troops to Engineer SERVICE
- National Society of Black Engineers / SEEK
- MIT
- UC Davis School of Education
- Wolf Trap
- National Math and Science Initiative for Military Families
- National Science Teachers Association
- National Engineers Week Foundation
- SciGirls
- Air Force Academy Foundation
- Camp Invention
- Science Buddies
- West Point Association of Graduates (Center for Leadership & Diversity in STEM)
- National Military Family Association
- United Through Reading
- Sentinels of Freedom Scholarship Foundation
- California Science Center
- AIA Team American Rocketry Challenge



CyberPatriot VI: High School Competition

CyberPatriot, established by the Air Force Association, is the National Youth Cyber Education Program that's inspiring students toward careers in cybersecurity and other science, technology, engineering, and mathematics (STEM) disciplines critical to our nation's future. The program features the National Youth Cyber Defense Competition, cyber camps, and an elementary school education program.

- Teams from all 50 states and Department of Defense Dependent Schools in Pacific and Europe
- 40% growth in registrations in past year, with record 2,175 teams participating in CyberPatriot VII
- CyberPatriot-based summer camps conducted in four Northrop Grumman communities in Summer 2014
- Expanded to the United Kingdom under the name CyberCenturion
- Since 2008, more than \$180,000 in scholarship funds have been awarded to CyberPatriot competitors
- Since 2011, we hired over 100 CyberPatriot high school interns working in Alabama, Arizona, California, Colorado, Maryland, Oklahoma, Utah, and Virginia
- Hundreds of Northrop Grumman employees have volunteered since program inception as mentors and technical advisors to teams

National Center for Women & Information Technology (NCWIT)

In 2013, NCWIT piloted AspireIT, a program designed to provide computing and technology outreach to middle school girls. To further the program's success, the Foundation provided funding to support the organization's goal of providing computing and technology outreach to 10,000 K-12 girls by 2018. Thus far, NCWIT has launched 70 programs and has provided an estimated 115,000 hours of computing education to over 2,000 girls in 23 states.

NCWIT was recognized by the Clinton Global Initiative for their commitment to action. Foundation President Sandra Evers-Manly was in attendance at the CGI America meeting in Denver.



VEX Robotics

In 2014, more than 100,000 elementary, middle, high school and college students from 33 different countries participated in the VEX robotics program. The World Championships, of which the Northrop Grumman Foundation is the presenting sponsor in partnership with the Robotics Education & Competition Foundation, were held in Anaheim, CA. Team development was also a focus of funding and allowed teams from Baltimore, MD to engage in this exciting competition.

The Robotics Education & Competition Foundation, which sponsors VEX Robotics, seeks to increase student interest and involvement in STEM by engaging them in hands-on, sustainable and affordable curriculum-based robotics engineering programs worldwide.

Highlights of the 2014 VEX World Championships can be found on YouTube.

Post-Season Mentor/Teacher Survey Highlights

- 96% of teams expect to return next year
- 90% believe Vex Robotics Competition (VRC) has improved their students' view of STEM activities
- 87% believe students in VRC are more likely to pursue STEM subjects beyond high school
- 85% report VRC raised student awareness of STEM careers
- 84% agree robots are student designed and built
- 83% of VEX IQ teachers anticipate students will participate in VRC in middle or high school
- 23% of team members are female

A Focus on Diversity

REC Foundation is committed to making robotics available to girls and students of color. In 2014, they connected with the National Society of Black Engineers, Great Minds in STEM and the American Indian Society of Engineers and Scientists to discuss partnerships.



University & College Partnerships and Diversity Scholarships

Our partnerships with universities and colleges play a key role in generating the knowledge, innovation and talent required to maintain and increase Northrop Grumman's global competitiveness. We value our partnerships and strive to develop collaborations that provide meaningful benefits to aid our university partners as well as Northrop Grumman accomplish our respective missions.

\$1,325,000

The Northrop Grumman Foundation funds STEM Scholarship Programs and higher education programs - ranging from STEM pipeline initiatives to diversity and academic organizations.

Education Grants to Support STEM Outreach and Pipeline Initiatives

- Massachusetts Institute of Technology
Zero Robotics Middle School Program
- San Diego State University
Troops to Engineering Program
- University of California, Davis - Common Core State Standards and the Next Generation Science Standards
- University of California, Los Angeles
HSSEAS Engineering Science Corps (ESC) Outreach Programs
- University of Colorado at Boulder
Scale Up of AspireIT - Middle School Outreach by Girls for Girls
- USAF Academy STEM Outreach and Diversity Visitation Program

Scholarship Programs

The National Action Council for Minorities in Engineering (NACME) Scholars Program collaborates with:

50 { Leading engineering college programs

30 { States to recruit, enroll, educate, retains and graduate African American, Latino and American Indian students.

Education Grants to Support Cyber Security Programs

- University of Maryland College Park Advanced Cyber Security Experience for Students (ACES) Program
- United States Naval Academy STEM Programs & Center for Cyber Security Studies

Support to Student Veteran Associations (SVA)

- California State University, Northridge
- North Carolina A & T State University
- Pennsylvania State University
- San Diego State University
- University of California, Irvine

- University of California, San Diego
- University of Colorado at Colorado Springs
- University of Florida
- University of Illinois, Urbana-Champaign
- University of Maryland-College Park
- University of Michigan, Ann Arbor
- University of Southern California

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For additional information on the Northrop Grumman Foundation or the grant application process, visit: www.northropgrumman.com and

keyword search: foundation.

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