



Teachers and Engineers for Academic Achievement

Building a Brighter Future

To help develop tomorrow's technical talent, Northrop Grumman's Electronic Systems (ES) sector, headquartered near Baltimore Washington International Airport, introduced the TEAACH (Teachers and Engineers for Academic Achievement) internship program in collaboration with the Maryland State Department of Education five years ago.

For almost two decades, ES employees have taken part in programs to engage young students (K-12) in discussion of STEM (Science, Technology, Engineering and Mathematics) disciplines as possible careers. At its simplest, this form of community outreach allows engineers to convey their enthusiasm about engineering, provides the students with some exciting and relevant activities and helps promote science and math in our schools.

But forecasts show that our nation faces a critical shortage of engineers that makes it all the more important for communities -- educators, parents and legislators -- to increase the emphasis on science and math, as a foundation for technology and research affecting both the nation's economy and its security. It's an important and urgent message that we need to communicate broadly.

As a result of mentoring programs like WORTHY and DiscoverE, Northrop Grumman has received an increasing number of requests from schools to have engineers visit and provide an overview of career options in engineering and technology. One response to this request is the creation of the TEAACH program to partner with teachers to influence an even larger number of students.



During the summer of 2009, up to 40 middle-school math, science and technology education teachers will be selected to attend a four-day teacher internship program at Northrop Grumman's Linthicum, Maryland facility. Participants should desire to learn more about engineering and science professions and be willing to look for ways to integrate the TEAACH experience into their classroom instruction.

Program Objectives

- Assist mathematics, science and technology education teachers in integrating engineering concepts and applications into the classroom;
- Acquaint educator-interns with various engineering disciplines in a high tech environment;
- Portray engineering as a challenging, multi-dimensional and exciting career choice;
- Expose teachers to best practice demonstrations, experiments and classroom applications;
- Provide hands-on/shadowing opportunity for real-world engineering application; and
- Provide networking opportunity among teachers and with NGES engineers.

Key Program Elements

- Two separate sessions will be offered: July 20-23/July 27-30 from 8:30 am-3:00 pm each day
- Participants will have the opportunity to be teamed with an engineer for classroom support if requested
- Teachers will receive a \$500 stipend for the four-day session and an opportunity for in-service credits.

Eligibility

To be considered for participation in the TEAACH Program, applicants must be a middle school mathematics, science or technology education teacher or guidance counselor for the 2009-2010 school-year in Maryland and able to secure a Department of Defense Clearance (must be a U.S. citizen to qualify).

Selection

Please complete the 2009 TEAACH application available on the Northrop Grumman website www.es.northropgrumman.com/community/teach/ and submit it by **May 18, 2009** to daniela.pfister@ngc.com. All applicants will receive a written response by June 1.

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