



## Submarine Force Library and Museum Association Historic Ship Nautilus Summer 2013 STEM Teacher Fellowships



The Submarine Force Library and Museum Association, in cooperation with the Submarine Force Museum, Historic Ship Nautilus and the Naval Historical Foundation, is pleased to offer Teacher Fellowships to middle school and high school science, technology, engineering, and mathematics (STEM) teachers. Interested teachers from Southeast Connecticut may apply for the fellowships to be conducted at the museum in Groton, CT from July 22 – August 2, 2013, using the attached application.

**Background:** The Navy has partnered with the non-profit 501(c)(03) organizations: Submarine Force Library and Museum Association and Naval Historical Foundation, for acquisition of state-of-the-art exhibits and supporting education programs. Museum exhibits, on-line virtual tours, and education programs tell the story of the Navy's role in peace and war, achieving a peaceful outcome in the Cold War, and service as an essential force of stability in an increasingly unstable and interconnected world – a Global Force for Good. STEM Teacher Fellows will learn about the significant advances pioneered by Navy research, development, technology and engineering inherent in the museum exhibits, and then connect the fundamental concepts to science and math teaching standards by creating lesson plans.



The history of the Navy is the history of technology: nuclear propulsion, electronics, mathematical systems, computing, aerodynamics, inertial guidance, chemistry, metallurgy, underwater physics, satellite communications, and world-wide navigation systems. This technology led to many non-military applications that are commonplace in today's world. Connecting the museum exhibits to student learning objectives brings to life the science and mathematics involved. The completed work of STEM Teacher Fellows from 2011 and 2012 is found at: [www.usnavymuseum.org/Education.asp](http://www.usnavymuseum.org/Education.asp). Similar plans have been produced for non-museum Navy settings at [www.navsystemfortheclassroom.com](http://www.navsystemfortheclassroom.com).

Shown above, STEM Teacher Rhonda Crawford's students conduct "Missiles On A Mission" (at [www.usnavymuseum.org/Education\\_LP0009.asp](http://www.usnavymuseum.org/Education_LP0009.asp)). Using teamwork, hands-on activities, STEM inherent in museum exhibits, and our 21<sup>st</sup> century education standards, our goal is to use the past to inform the present and the past to advance future education achievement. 2013 STEM Teacher Fellowship applicants can add to this history of success by completion of this summer's fellowship experience.

**STEM Teacher Fellowship Opportunity:** The 2013 STEM Teacher Fellowship for Southeast Connecticut middle school and high school science, technology, engineering, and mathematics teachers will take place at the Submarine Force Museum and Historic Ship Nautilus, in Groton CT from July 22 to August 3, 2013. A stipend of \$2,400 will be paid to each of the three successful applicants for the program, upon fellowship completion.

**Fellowship Expectations:** Fellows will receive an immersion experience: a general Navy and submarine force orientation, discussion of museum exhibits and technology with subject experts, and submarine tours. By tapping these resources, the Fellows will develop lesson plans based on the science and mathematics inherent in exhibits. The lesson plans must also meet each teacher's subject area common core standards for mathematics or science standards of learning. Completed lesson plans will be posted on associated museum websites for use nationwide, in conjunction with virtual museum tours.

At the conclusion of the program on August 2, 2013, teacher Fellows will have the opportunity to showcase their work to a panel of Navy and Submarine Force Library and Museum Association staff. A follow-on Certificate of Completion Ceremony will be conducted on August 16, 2013. It is expected that our Fellows will share their experience and plans with colleagues at the local level, and (depending on acceptance) at state and national professional educator conferences. Previous STEM Teacher Fellows have been successful in highlighting their efforts in many teaching forums.

**Eligibility:** The Submarine Force Library and Museum Association seeks certified middle school or high school educators with at least five years of experience teaching in the areas of science, technology, engineering, or mathematics (Algebra I or higher). National Board Certification is a plus. Educators who are military veterans are encouraged to submit applications. The selection committee is looking for enthusiastic, creative individuals capable of developing interesting and challenging standards-based lesson plans.

**Applications:** The application below should be submitted with attachments: a resume, a letter of support from the school Principal or Department Chairperson, and a commitment to share completed work with colleagues at all levels. The application deadline is midnight July 1, 2013. Selections will be made on July 8, 2013. Send applications as scanned pdf attachment to [director@submarinemuseum.org](mailto:director@submarinemuseum.org) or by FAX to 860-405-0568.

**Information/Help:** John Paulson, our fellowship coordinator at the Naval Historical Foundation, can answer questions about the program at [jpaulson@navyhistory.org](mailto:jpaulson@navyhistory.org) or at (202) 678-4333 extension 8. Selections will be made on July 8, 2013 and selectees will be notified promptly, no later than July 10, 2013.



Submarine Force Library and Museum Association  
Summer 2013 STEM-H Teacher Fellowship Application  
**(Due midnight July 1)**



**Applicant Contact Information:**

Name: \_\_\_\_\_  
Street Address: \_\_\_\_\_  
City, State, ZIP: \_\_\_\_\_  
Home Phone: \_\_\_\_\_  
Work Phone: \_\_\_\_\_  
Cell Phone: \_\_\_\_\_  
E-mail address(es): \_\_\_\_\_  
Best time to contact you by phone: \_\_\_\_\_

**Teaching Experience:**

Total Years Teaching: \_\_\_\_\_  
Subject Certification(s) and State(s): \_\_\_\_\_  
School District: \_\_\_\_\_  
School Name and Number of Years at current school : \_\_\_\_\_  
School Principal: \_\_\_\_\_  
Principal's contact information: \_\_\_\_\_

**High School Subjects & Grade levels you currently teach:**

Department Chair/ Supervisor's Name: \_\_\_\_\_  
Supervisor's contact information: \_\_\_\_\_  
**Bonus:** National Board Certification Y/N Year/Subject(s): \_\_\_\_\_  
**Military experience:** Y/N. If yes please discuss: \_\_\_\_\_  
**Personal Laptop:** Y/N Does it have wireless capability? \_\_\_\_\_  
**Summer Availability:** Y/N 22 July - 2 August, comments: \_\_\_\_\_

**Attachment #1 Resume**

Please attach a resume which includes background, experience, awards received, presentations you have given to teacher groups for professional development or at conferences, and professional organizations to which you belong.

**Attachment #2 Letter of Endorsement**

Please include a letter of endorsement from your School Principal or Department Chairperson, describing your professional character and teaching strengths.

**Attachment #3 Outreach Plan**

A requirement of the STEM-H Fellowship is for teacher commitment to sharing their fellowship experience and lesson plans with colleagues. Fellows may do this at the individual school level and at district, state or national conferences. Please list your professional organizational membership(s), local, state or national conferences you have attended, and presentations you have given. If you are awarded a Fellowship, what future conferences do you anticipate as a venue for presenting your Fellowship work?