

# Army Educational Outreach Program

## FY16 Annual Program Report

### Junior Science and Humanities Symposia (JSHS)

(Revised May 5, 2016)

#### Program Contact Information

##### Regional JSHS

**Name**

Title

Organization

Phone number

email:

Please complete data and return to the Academy of Applied Science prior to 25 June 2015. Please email to: [cousens@jshs.org](mailto:cousens@jshs.org) Additional reporting requirements may be separately submitted. Remember to submit: 1) published symposium program; 2) published abstracts or other materials (electronic file preferred); 3) sample guidelines for the student paper competition (electronic); 4) completed "Teacher Award Form"; 5) Reporting of Scholarship recipients; and 6) Regional Financial Statement.

#### Participant numbers and demographic characteristics

**1. How many of each participant group enrolled in the program? How many of each group applied and/or were selected/invited to participate? Report data using the following categories and enter "NA" where not applicable.**

	Applied	Selected
Participant Group	No.	No.
High school students (grades 9-12)		
Undergraduate students (including community college)		
Graduate students (including post-baccalaureates)		
In-service K-12 teachers		
Pre-service K-12 teachers		
College/university faculty or other personnel		
Army/DoD Scientists & Engineers		
Other volunteers (e.g., if a competition program)		



---

Organizations participating or served

**1. How many of each organization participate in or contribute to the program? Report data in the following categories:**

Organizations	No.
K-12 schools	
Title 1 K-12 schools	
Colleges/universities (including community colleges)	
Army/DoD laboratories	
Other collaborating organizations (educational agencies, professional associations, external sponsors, etc.)	

**2. Please list all colleges/universities contributing to the program.**

**3. Please list all Army/DoD laboratories contributing to the program.**

**4. Please list other collaborating organizations which contribute to the program.**

**5. Please list all participating high schools.**



---

## Accomplishments—Activities, Best Practices

Report major activities which contributed to the FY '16 objectives of the Army Educational Outreach Program (AEOP).

FY 16 AEOP Objectives for JSHS include:

1. Encourage and reward increased student participation in STEM.
2. Expand the participation of underrepresented populations in STEM. Underrepresented populations include race (Black, Hispanic, Native American), socioeconomic barriers (i.e. rural), and gender (females enrolled in engineering and physical sciences).
3. Expose students to STEM opportunities in Army and/or DoD laboratories through AEOP. (Increase awareness of AEOP opportunities among JSHS participants at regional and national symposia levels. Note: AEOP brochures were mailed to each regional symposium.)
4. Retain and support volunteers who support the program.

## Program Changes/Challenges- cVent Registration, Evaluation

The Academy of Applied Science in cooperation with Purdue University and Battelle distributed surveys to JSHS Regional Symposia Directors to forward to participating students, teachers and volunteers.

The surveys are a tool for AEOP to collect demographic data on program participants (see Table at page 5) and other evaluation data.

1. What efforts were made to request participation in the evaluation survey?
2. Are there any challenges, lessons learned or recommendations for the future design and use of the survey process?



---

## Products

1. List and briefly describe any products resulting from the administration of JSHS during FY 16. (Products may include instructional materials, educational resources, audio or video products, guiding documents, marketing or promotional materials, presentations or publications (provide citations), educational research or evaluation assessment.)
2. How many of each product resulted from the Army/AEOP-sponsored research conducted by students participating in JSHS:

Product type	Number
Research projects	
Abstracts	
Oral presentations	
Poster presentations	
Publications	
Patents	
Other	

## Social Media

1. List any websites (provide the associated URLs) associated with FY 16 JSHS at the regional level.
2. What efforts were made to market and promote the JSHS regional symposium through social media?
3. List any social media handles (Facebook, Twitter) associated with the FY 16 JSHS at the regional level. Please provide any statistics on the number of posts, increase in number of followers, retweets, etc. (if available).



***JSHS Participants – Demographic Data.*** This data is collected through the AEOP survey or evaluation process. Please report demographic data below if your region did not participate in the AEOP survey.

[Identify Participant Group]	Applied		Selected	
	No.	%	No.	%
<b>Demographic Category</b>				
<b>Gender</b>				
Male				
Female				
Choose not to report				
<b>Race/ethnicity</b>				
Native American or Alaskan Native				
Asian				
Black or African American				
Hispanic or Latino				
Native Hawaiian or Other Pacific Islander				
White				
Choose not to report				
<b>School setting (students and teachers)</b>				
Urban (city)				
Suburban				
Rural (country)				
Frontier or tribal School				
DoDDS/DoDEA School				
Home school				
Online school				
Choose not to report				
<b>Receives free or reduced lunch (students only)</b>				
Yes				
No				
Choose not to report				
<b>English is a first language (students only)</b>				
Yes				
No				
Choose not to report				
<b>One parent/guardian graduated from college (students only)</b>				
Yes				
No				
Choose not to report				
<b>Documented disability (students only)</b>				
Yes				
No				
Choose not to report				



## Fast Facts

Complete the summary chart below. Report data using the following categories and enter “NA” where not applicable.

FY16 [Enter Program Name]	No.
<b>Applications &amp; Participants</b>	
Student Applications	
Student Participants	
Student Participation Rate (no. participants/no. applications x 100)	%
Teacher Applications	
Teacher Participants	
Teacher Participation Rate	%
<b>Partners</b>	
Participating Colleges/Universities (including community colleges)	
Participating Army/DoD Laboratories	
Science & Engineer Participants (Volunteer judges, speakers, tour leaders)	
<b>Budget &amp; Expenses</b>	
FY15 Total Budget	\$
FY15 Total Expenses (estimate through 30 Sept)	\$
Average cost per student	\$



**Annual Program Plan (APP), FY 2016 – National Junior Science & Humanities Symposium.** The National JSHS has established below targets to address AEOP objectives. Regional symposia feedback is requested on activities to accomplish AEOP objectives. (Please refer to the text in Red.) For example, increased outreach to Title I schools is an established target to measure success in outreach to underrepresented populations. Regional symposia feedback is sought on any outreach activities to Title I schools, or partner organizations which may serve underrepresented student populations.

<p><b>Objective: Encourage and reward increased student participation in STEM.</b>  <b>(Supports AEOP Goal 1: Broaden, deepen and diversify the pool of STEM talent in support of our Defense Industry .)</b>  <b>Objectives</b> a. Encourage and reward student participation in STEM opportunities. b. Inspire students to excel in STEM.  <b>Proposed Plan:</b></p> <ul style="list-style-type: none"> <li>Regional symposia are encouraged to set goals to maximize participation of high school populations served by the region.</li> </ul>
<p><b>FY Target:</b>  Increase the numbe of high schools participating at the JSHS regional symposia level</p>
<p><b>Major activities:</b>  [REPORT REGIONAL SITE-LEVEL ACTIVITIES – EXAMPLES]:</p> <ol style="list-style-type: none"> <li>Total number of participants reached at the regional symposia? Number applications, number participants?</li> <li>High schools reached?</li> <li>How is JSHS regional symposium publicized? Any unique marketing efforts (i.e. participation in NSTA or statewide teacher association meetings)</li> </ol>
<p><b>Results:</b>  MEASURED BY DATA FROM PARTICIPANTS SURVEYS, REGIONAL SYMPOSIA REPORTS, AND FOCUS GROUPS  [REPORT PROGRESS TOWARD ACHEIVING TARGET]</p>
<p><b>Objective: Expand the participation of underrepresented populations in JSHS.</b>  <b>(Supports AEOP Goal 1: Broaden, deepen and diversify the pool of STEM talent in support of our Defense Industry.)</b>  <b>Objectives</b> a. Encourage and reward student participation in STEM opportunities. b. Inspire students to excel in STEM.  c. Increase participation of under-served populations in STEM.</p>
<p><b>FY Target:</b>  Increase outreach to Title 1 schools or partner organizations which encourage STEM success by underrepresented populations.</p>
<p><b>Major activities:</b>  [REPORT REGIONAL SITE-LEVEL ACTIVITIES – EXAMPLES]</p> <ol style="list-style-type: none"> <li>Describe any partnerships or outreach efforts to identify students from under-represented populations</li> </ol>
<p><b>Results:</b>  [REPORT RESULTS]—MEASURED BY DATA FROM PARTICIPANTS SURVEYS, REGIONAL SYMPOSIA REPORTS, AND FOCUS GROUPS</p>



<p><b>Objective: Expose students to STEM opportunities in Army and/or DoD laboratories through the AEOP.</b>  <b>(Supports AEOP Goal 1: Broaden, deepen and diversify the pool of STEM talent in support of our Defense Industry.)</b></p> <p><b>Objectives:</b> b. Inspire students to excel in STEM. D. Expand involvement of students in ongoing DoD research. E. Increase awareness of DoD STEM career opportunities.</p> <p><b>Proposed Plan:</b></p> <ul style="list-style-type: none"> <li>Engage students and military STEM researchers in regional and national symposia.</li> <li>Work with AEOP and military to develop a unified marketing initiative to 1) inform military labs of AEOP and JSHS opportunities; 2) solicit regional participation; 3) publicize AEOP and JSHS to nationwide high schools; and 4) expand students' knowledge of DoD STEM career opportunities.</li> </ul>
<p><b>FY Target:</b>  <b>Increase awareness of AEOP opportunities among JSHS participants at regional and national levels.</b></p>
<p><b>Major activities:</b>  <b>[REPORT REGIONAL SITE-LEVEL ACTIVITIES – EXAMPLES]:</b></p> <ol style="list-style-type: none"> <li>Data on military participation at the regional symposia level, including ROTC, labs, and major commands.</li> <li>Were AEOP materials distributed to participants at the regional symposia level, or through social media?</li> <li>Engagement of military personnel in Regional JSHS judging process? Other?</li> </ol>
<p><b>Results:</b>  <b>[REPORT RESULTS]</b>  <b>[REPORT PROGRESS TOWARD ACHIEVING TARGET]</b></p>
<p><b>Objective: Retain and support volunteers who support the program.</b>  <b>(Supports AEOP Goal 2: Support and empower educators with unique Army research and technology resources.)</b></p> <p><b>Objectives:</b> b. Use incentives to promote teacher participation in AEOP. C. Provide on-line resources for educators to share best practices. D. Provide and expand mentor capacity of the Army's highly qualified scientists and engineers.</p> <p><b>Proposed Plan:</b></p> <ul style="list-style-type: none"> <li>Increase retention and recruitment of high schools and teachers</li> <li>Utilizing social media and website, provide a platform to collect and share best practices.</li> <li>Increase awareness of AEOP through social media</li> </ul>
<p><b>FY Target:</b></p> <ul style="list-style-type: none"> <li>Total number of volunteers and activities to recognize and support participation.</li> </ul>
<p><b>Major activities:</b>  <b>[REPORT REGIONAL SITE-LEVEL ACTIVITIES – EXAMPLES]</b></p> <ol style="list-style-type: none"> <li>Describe any successful approaches to recognize, recruit and retain volunteer contributions of teachers and university faculty; and/or</li> <li>Describe any teacher enrichment programs, outreach, workshop, etc. conducted at the regional symposium level, or as a feeder to JSHS; and/or.</li> <li>Describe how the regional symposium supports high schools in preparing students for JSHS</li> </ol>
<p><b>Results:</b></p>
<p><b>FY Target:</b></p>



