



ASSOCIATION OF  
SCIENCE-TECHNOLOGY CENTERS

## Overview of FY 18 Budget Science Budgets

Updated September 8, 2017

### Introduction

On March 16, U.S. President Donald Trump released an abbreviated federal budget request for fiscal year (FY) 2018, which begins on October 1. The release signals the start of the annual appropriations process; House and Senate Appropriations Committees and Subcommittees have held related hearings in hopes of passing each of the twelve annual spending bills before the aforementioned deadline. Here is a detailed breakdown of how the federal agencies and programs of particular interest to ASTC and its members are faring.

### Institute of Museum and Library Services

	FY 15	FY 16	FY 17	FY 18 Trump Request	FY18 House	FY 18 Senate	ASTC Request
<b>IMLS</b>	227.86 M	230 M	231 M	<b>23 M</b>	231 M	235 M	
<b>Library Serv.</b>	180.91 M	182.94 M	183.6 M	<b>0</b>	183.02 M	187.57 M	
<b>Ofc of Museum Serv.</b>	28.72 M	29.86 M	30.23 M	<b>0</b>	29.86 M	30.23 M	<b>30.5 M</b>
<b>- Mus. for Amer.</b>	20.2 M	21.15 M	21.15 M	<b>0</b>	21.15 M	21.15 M	
<b>- Natl. Lead.</b>	7.6 M	7.74 M	8.1 M	<b>0</b>	7.74 M	8.1 M	

IMLS = Institute of Museum and Library Services overall  
 Library Serv. = Programs authorized by the Library Services Act  
 Museum Serv. = Programs authorized by the Museum Services Act  
 Mus. for America = Museums for America  
 Natl. Lead. = National Leadership Grants for Museums

The entire IMLS agency is eliminated in the President's FY 2018 Budget proposal.

- ❖ **Program Description (for ASTC Member Requests re. Labor-HHS-Education appropriations):** IMLS has been driven by its mission to inspire libraries and museums to advance innovation, lifelong learning, and cultural and civic engagement by providing leadership through research, policy development, and grant making. The agency's Office of Museum Services offers and administers competitive grant programs that undergo a rigorous peer review process in an effort to identify well-designed projects. Fall 2015, IMLS announced new grants for 217 museum projects through the Museums for America and National Leadership Grants for Museums programs.

## U.S. Department of Education

	FY 15	FY 16	FY 17	FY18 Trump Request	FY 18 House	FY 18 Senate	ASTC Request
<b>USED</b>	67.1 B	68.306 B	68.24 B	<b>62.89 B</b>	65.82 B	68.3 B	
<b>MSP *</b>	152.7 M	152.7 M	152.4 M	<b>0</b>			
<b>Title II – Effective Teaching</b>			2.056 B	<b>0</b>	0	2.056 B	
<b>Title IV A SSAE</b>	1.15 B	Authorized at \$1.65 B	400 M	<b>0</b>	500 M	\$450 M	<b>\$1. B</b>
<b>Title IV B 21<sup>st</sup> CCLC</b>	1.15 B	1.17 B	1.19 B	<b>0</b>	1.0 B	1.19 B	<b>\$1.17 B</b>
<b>CTE</b>			1.12 B	<b>976 M</b>	1.12 B	1.12 B	

USED = Department of Education overall

\*MSP = Math and Science Partnerships eliminated by ESSA

Title II – teacher PD, etc

Title IVA - SSAE = Student Support and Academic Enrichment Grants (new ESSA block grant)

Title IVB - 21<sup>st</sup> CCLC = 21<sup>st</sup> Century Community Learning Centers

CTE – Career & Technical Education

The Every Student Succeeds Act of 15 (ESSA), which replaced No Child Left Behind and reauthorized the Elementary and Secondary Education Act of 1965 (ESEA), eliminated the MSP program; as a result, ED is not requesting FY 2018 funding for MSP.

- ❖ **Programmatic Description (for ASTC Member Requests re. Labor-HHS-Education appropriations):** The new ESSA Student Support and Academic Enrichment (SSAE) grants, authorized in ESSA’s Title IV, Part A, combined more than 50 distinct education programs and intended to offer flexibility and help school districts: 1) create safe and healthy school environments; 2) provide access to a well-rounded education; and, 3) improve the effective use of technology in schools. SSAE can support a broad array of activities and programs including student mental health services; physical education and health education; college and career counseling; improving access to music, the arts, STEM, computer science and advanced coursework; bullying, harassment and violence prevention; professional development for educators to enhance the use of technology; and any other activity that supports a well-rounded education. *In order to maximize the use of the SSAE program resources, SEAs, LEAs, and schools may partner with organizations such as nonprofits, institutions of higher education (IHEs), museums, and community organizations to offer programs and services to students.* ESSA authorized funding for SSAE at \$1.65 billion, a level deemed sufficient for districts to make meaningful investments in programs that support their students and schools. The Senate FY17 bill provided a mere \$300 million while the House provided \$1 billion. ASTC members respectfully urge that SSAE grants receive full funding to provide districts with the flexibility that is intended in ESSA and to ensure all students in every district are provided access to the programs and activities that will help them succeed and thrive in school and in life.

The 21<sup>st</sup> Century Community Learning Centers Program is eliminated in the President’s FY 2018 budget proposal.

- ❖ **Programmatic Description (for ASTC Member Requests re. Labor-HHS-Education appropriations):** For years, the 21<sup>st</sup> Century Community Learning Centers program has supported the creation of community learning centers that provide academic enrichment opportunities during non-school hours for children—particularly those students who attend high-poverty and low performing schools. The 21st CCLC program helps students meet state and local student standards in core academic subjects, such as reading and math; offers

students a broad array of enrichment activities that can complement their regular academic programs; and offers literacy and other educational services to the families of participating children. ASTC members across the country have utilized 21st CCLC funding to partner with local school districts in an effort to highlight STEM in afterschool.

## National Institutes of Health

	FY 15	FY 16	FY 17	FY 18 Trump Request	FY 18 House	FY 18 Senate	ASTC Request
<b>NIH</b>	30.31 B	32.31 B	34 B	<b>26.92 B</b>	35.18 B	\$36.08 B	
<b>- SEPA</b>	18.5 M	18.5 M	17.1 M	<b>17.1 M</b>		17.1 M	<b>18.5 M</b>

NIH = National Institutes of Health overall

\*SEPA = Science Education Partnership Awards moved from Ofc of Director to Natl Institute of Gen Medicine Sciences

After being targeted for elimination in President Obama’s FY 2014 budget request as part of a massive proposed consolidation of federal STEM education programs, the SEPA program has enjoyed Administration and Congressional support—albeit at level funding—in each of the past three requests.

- ❖ **Program Description (for ASTC Member Requests re. Labor-HHS-Education appropriations):** According to NIH, the goal of the Science Education Partnership Award program is to invest in educational activities that assist in workforce development to meet the nation’s biomedical, behavioral and clinical research needs. By supporting partnerships between researchers and teachers, schools, and institutions like science centers and museums, the SEPA program provides opportunities for students from underserved communities to consider careers in research, provides teachers with professional development in science- and health-related content and teaching skills, and improves community health literacy through exhibits and programming at science centers and museums. To date, NIH has made 150 SEPA awards in 40 states—including Alabama, Arkansas, California, Connecticut, Maryland, Oklahoma, Pennsylvania, Tennessee, and Virginia—as well as in the District of Columbia and Puerto Rico.

## National Science Foundation

	FY 15	FY 16	FY 17	FY 18 Trump Request	FY 18 House	FY18 Senate	ASTC Request
<b>NSF</b>	7.34 B	7.46 B	7.433 B	<b>6.653 B</b>	7.34 B	7.31 B	
<b>- EHR</b>	886.33 M	880 M	880	<b>761 M</b>	880 M	862.4 M	<b>880 M</b>
<b>- AISL</b>	55 M	62.5 M	62.5 M	<b>63 M</b>	-	62.5 M	<b>62.5 M</b>
<b>- DRPK-12</b>		84 M		<b>83 M</b>	-		
<b>- STEM+C</b>			51.9 M	<b>33 M</b>	-	51.9 M	<b>51.9 M</b>

NSF = National Science Foundation overall

EHR = Directorate for Education and Human Resources

AISL = Advancing Informal STEM Learning

DRPreK-12 12 = Discovery Research from PreK-12

STEM+C = STEM & Computer Science Education cofounded by EHR & CISE (Computer Information Science & Engineering)

- ❖ **Program Description (for ASTC Member Requests re. Commerce-Justice-Science appropriations):** The Advancing Informal STEM Learning program, offered by the Directorate for Education and Human Resources, typically provides resources to support design, adaptation, implementation, and research on innovative modes of learning in the informal environment with important emphases on citizen science, making, and cyber learning. There is a growing body of evidence that informal learning environments focused on STEM disciplines cultivates an interest among young people in STEM careers

and promotes understanding of STEM content knowledge and the scientific process. Just last year, ASTC itself was awarded an AISL grant for a project that centers on the creation and validation of a theoretically grounded and empirically derived framework for professional growth and learning within the informal STEM learning (ISL) field. The framework will be useful to ISL practitioners at any stage of their education or career by laying out the necessary skills, knowledge, and dispositions to guide their professional growth. While the immediate beneficiaries of the project will be the ISL professionals themselves, the ultimate beneficiaries of the work will be the young people, teachers, and general public that engage with STEM experiences designed and implemented by a skilled and knowledgeable ISL professional workforce.

## National Aeronautics and Space Administration

	FY 15	FY 16	FY 17	FY 18 Trump Proposal	FY 18 House	FY 18 Senate	ASTC Request
<b>NASA</b>	18.01 B	19.29 B	19.65 B	<b>19.1 B</b>	19.9 B	19.53 B	
<b>Education</b>	119 M	115 M	100 M	<b>37</b>	90 M*	100 M	
<b>- SEAP</b>	29 M	25 M	10 M	<b>0</b>	-	10 M	
<b>--CP4SMPVC</b>	TBD	TBD	-	<b>0</b>	-	10 M	<b>10 M</b>
<b>SMD EPO</b>	42 M	37 M	37 M	<b>44</b>	-	44 M	

NASA = National Aeronautics and Space Administration overall

Education = NASA Office of Education

SEAP = STEM Education and Accountability Projects \*\$58M set aside for Space Grant & EPSCOR (32M usually for MUREP, leaves 0 for SEAP)

CP4SMPVC = Competitive Program for Science Museums, Planetariums, NASA Visitor Centers Plus Other Opportunities

SMD EPO = Science Mission Directorate Education and Public Outreach

The NASA Office of Education is eliminated in the President's FY 2018 Budget proposal. Though NASA has not identified any recent overall funding amounts for the Competitive Program for Science Museums, Planetariums, and NASA Visitor Centers in recent years, Congress has been very supportive of this program since its inception in FY 2008.

While the President's FY18 budget proposal would no longer fund a formal Office of Education, it suggests NASA could continue to inspire the next generation through its missions and channel education efforts in a more focused way through a robust portfolio within its Science Mission Directorate.

- ❖ **Program Description (for ASTC Member Requests re. Commerce-Justice-Science appropriations):** NASA's Competitive Program for Science Museums, Planetariums, and NASA Visitor Centers (CP4SMPVC) provides support for education or research engagement projects, exhibits, and/or partnerships with K-12 schools to support inquiry- or experiential based activities led by informal education institutions—like science centers and museums—that feature NASA missions, science engineering, explorations, or technologies.

## National Oceanic and Atmospheric Administration

	FY 15	FY 16	FY 17	FY 18 Trump Request	FY 18 House	FY 18 Senate	ASTC Request
<b>NOAA</b>	5.5 B	5.77 B	5.675 B	<b>4.775 B</b>	4.965 B	5.6 B	
<b>Education</b>	27.6 M	26.6 M	27 M	<b>0</b>	19.18 M	27 B	<b>24.2 M</b>
<b>-Comp. Grants/ELG</b>	4 M	3 M	5 M	<b>0</b>	-	5 M	<b>5 M</b>
<b>-Bay-Water</b>			7.5M	<b>0</b>	3.75 M	7.5 M	<b>7.5 M</b>

NOAA = National Oceanic and Atmospheric Administration overall

Education = NOAA Office of Education

Comp. Grants = Competitive Education Grants/Environmental Literacy Grants

NOAA's Competitive Education Grants are zeroed out under the President's budget request; in each of the previous three fiscal years, Congress has rejected the proposed cuts and restored funding for the offerings.

- ❖ **Program Description (for ASTC Member Requests re. Commerce-Justice-Science appropriations):** NOAA's Competitive Education Grants/Environmental Literacy Grants and Bay-Watershed grant programs aim to increase the understanding and use of environmental information to promote stewardship and increase informed decision making by U.S. educators, students, and the public. In its most recent ELG funding announcement, NOAA challenged applicants to develop proposals that specifically addressed community resilience to extreme weather events and environmental changes, one of the agency's prime areas of focus. Since its inception, NOAA has made 80 ELG awards to 60 institutions across the country who, in turn, count nearly 30 million visits each year.