

**OFFICE OF INTERNATIONAL SCIENCE  
AND ENGINEERING (OISE)**

**\$44,020,000  
-\$5,050,000 / -10.3%**

**OISE Funding**  
(Dollars in Millions)

	FY 2016 Actual	FY 2017 (TBD)	FY 2018 Request	Change Over FY 2016 Actual	
				Amount	Percent
<b>OISE</b>	<b>\$49.07</b>	<b>-</b>	<b>\$44.02</b>	<b>-\$5.05</b>	<b>-10.3%</b>

**About OISE**

The Office of International Science and Engineering (OISE) is the NSF focal point for international science and engineering activities. OISE’s mission is to promote an integrated, Foundation-wide international engagement strategy and manage internationally-focused programs that are innovative and catalytic. OISE focuses on international activities to promote innovation among the U.S. research community through access to international knowledge, infrastructure, and capabilities. OISE’s FY 2018 budget focuses on three activities: (1) promoting the development of a globally competent U.S. workforce, (2) facilitating and supporting international partnerships to leverage NSF and foreign resources, and (3) providing opportunities for U.S. leadership to shape the global science and engineering agenda.

To realign the office’s programs with its mission, several programs will be suspended and/or terminated. The East Asia-Pacific Summer Institute (EAPSI) program will be suspended to review the program and its outcomes. Funding used in previous years for the International Research Fellowship Program (IRFP) will be integrated into the International Research Experience for Students (IRES) program to provide global research experiences to undergraduate and graduate students. IRES will expand to include a track based on the successes of the Pan-American Advanced Studies Institutes Program for global Advanced Studies Institutes, a program that trained cohorts of scientists and engineers. Both the Catalyzing New International Collaborations (CNIC) and the Science Across Virtual Institutes (SAVI) programs were sunset in FY 2017.

Using lessons learned from SAVI, OISE will expand efforts to advance transformative science and engineering research by launching the Accelerating Research through International Networks (AccelNet) program. AccelNet will create international network-to-network partnerships, leveraging international resources to provide new opportunities for enhanced interface between U.S. researchers and their international colleagues. AccelNet will focus on NSF priority investment areas. Each award is expected to establish a network of networks across international and interdisciplinary boundaries. AccelNet will not support core research programs of participating researchers. Instead, it will provide the funding to connect U.S. research networks with their international counterpart networks. These efforts will ensure the United States has access to the best ideas, people, and facilities wherever they may be.

OISE also manages the NSF’s overseas offices in Beijing, Brussels, and Tokyo. These offices report on and analyze in-country and regional science and technology developments and policies. They promote greater collaboration between U.S. and foreign counterparts and research institutions.

**FY 2018 Summary**

<b>OISE Funding</b> (Dollars in Millions)					
	FY 2016 Actual	FY 2017 (TBD)	FY 2018 Request	Change Over FY 2016 Actual	
				Amount	Percent
Research	\$38.95	-	\$32.74	-\$6.21	-15.9%
Education	10.02	-	11.18	1.16	11.6%
Infrastructure	0.10	-	0.10	-	-
<b>Total</b>	<b>\$49.07</b>	<b>-</b>	<b>\$44.02</b>	<b>-\$5.05</b>	<b>-10.3%</b>

**Research**

- In FY 2018, OISE will invest \$32.74 million, \$6.21 million below the FY 2016 Actual, in research programs to promote NSF’s international engagement strategy. These funds will support international partnerships and networks and leverage research investments made in other parts of the Foundation.
- Research programs funded in FY 2018, including the Global Venture Fund (GVF), will support a broad range of collaborative activities (workshops, planning grants, and international research) with NSF’s research and education directorates. In FY 2018, GVF will be funded at \$1.00 million to support co-funding of international activities with NSF directorates and offices.
- OISE will continue support for existing awards in the Partnerships in International Research and Education (PIRE) program, which leverages NSF’s resources with those of numerous foreign science and technology funding agencies. In FY 2018, PIRE will be funded at \$25.06 million, or \$1.62 million above the FY 2016 Actual of \$23.44 million.
- With the sun-setting of SAVI, OISE will launch AccelNet, which will be funded at \$1.0 million.
- The FY 2018 Request will support \$900,000 for the Innovations at the Nexus of Food, Energy, and Water Systems (INFEWS) program. These investments will enable U.S. scientists and engineers to partner with their international colleagues in this area.

**Education**

- OISE supports international research and education activities for U.S. undergraduate students, graduate students, and post-doctoral fellows through the International Research experiences for Students (IRES). IRES will issue a revised program solicitation in FY 2018 to include activities previously supported by Pan-American Advanced Studies Institutes (PASI) and the International Research Fellowship Program (IRFP). In FY 2018, IRES will be funded at \$11.18 million, or \$5.25 million above the FY 2016 Actual of \$5.93 million.

**Infrastructure**

- In FY 2018, OISE will maintain a \$100,000 investment in the National Nanotechnology Coordinated Infrastructure (NNCI) program. NNCI advances U.S. efforts to advance nanoscience research and education. For detailed information about NNCI, see the Facilities chapter.

## Major Investments

### OISE Major Investments

(Dollars in Millions)

Area of Investment	FY 2016 Actual	FY 2017 (TBD)	FY 2018 Request	Change Over FY 2016 Actual	
				Amount	Percent
CAREER	\$0.33	-	-	-\$0.33	-100.0%
Clean Energy Technology	10.45	-	-	-10.45	-100.0%
INFEWS	1.20	-	0.90	-0.30	-25.0%
Science, Engineering & Education for Sustainability	6.31	-	-	-6.31	-100.0%
Understanding the Brain	4.60	-	-	-4.60	-100.0%

Major investments may have funding overlap and thus should not be summed.

All funding decreases/increases represent changes over the FY 2016 Actual.

- INFEWS (-\$300,000 to a total of \$900,000 million): OISE will co-fund meritorious proposals relevant to INFEWS with international components from across NSF. OISE will identify opportunities to catalyze new, synergistic collaborations that involve early career scientists, engineers, and students. This is an area where OISE interaction with other federal agencies (U.S. Department of State, USAID, and U.S. Department of Agriculture) is of particular benefit.

## Summary and Funding Profile

In FY 2018, the number of research grant proposals is expected to increase by 27 percent compared to the FY 2016 Actual Estimate. Average annual award size and duration are expected to materially fluctuate in FY 2018 because it anticipated that the new IRES solicitation and the launching of AccelNet will generate an increase in awards.

### OISE Funding Profile

	FY 2016 Actual Estimate	FY 2017 (TBD)	FY 2018 Estimate
<b>Statistics for Competitive Awards:</b>			
Number of Proposals	314	-	400
Number of New Awards	237	-	300
Funding Rate	75%	-	75%
<b>Statistics for Research Grants:</b>			
Number of Research Grant Proposals	108	-	100
Number of Research Grants	32	-	35
Funding Rate	30%	-	35%
Median Annualized Award Size	\$83,369	-	\$100,000
Average Annualized Award Size	\$102,450	-	\$250,000
Average Award Duration, in years	2.7	-	3.0

## Program Monitoring and Evaluation

External Program Evaluations and Studies:

- In FY 2018, OISE will fund an evaluation of the IRES program. A request for proposals will be issued by January 2018 and the final results are expected in January 2019.

Committees of Visitors (COV):

- In FY 2018, a COV will review OISE's programs and activities.

The Performance chapter provides details regarding the periodic reviews of programs and portfolios of programs by external Committees of Visitors and directorate Advisory Committees. Please see this chapter for additional information.

### Number of People Involved in OISE Activities

	FY 2016 Actual Estimate	FY 2017 (TBD)	FY 2018 Estimate
Senior Researchers	488	-	500
Other Professionals	52	-	50
Postdoctoral Associates	182	-	200
Graduate Students	147	-	150
Undergraduate Students	97	-	100
<b>Total Number of People</b>	<b>966</b>	<b>-</b>	<b>1,000</b>