

SUMMARY TABLES

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**National Science Foundation
Summary Table
FY 2013 Request to Congress**

(Dollars in Millions)

NSF by Account	FY 2011 Actual	FY 2012 Estimate	FY 2013 Request	FY 2013 Request over:			
				FY 2011 Actual Amount	FY 2011 Actual Percent	FY 2012 Estimate Amount	FY 2012 Estimate Percent
BIO	\$712.27	\$712.38	\$733.86	\$21.59	3.0%	\$21.48	3.0%
CISE	636.06	653.59	709.72	73.66	11.6%	56.13	8.6%
ENG	763.33	826.17	876.33	113.00	14.8%	50.16	6.1%
<i>ENG Programs</i>	<i>636.86</i>	<i>673.41</i>	<i>711.13</i>	<i>74.27</i>	<i>11.7%</i>	<i>37.72</i>	<i>5.6%</i>
<i>SBIR/STTR</i>	<i>126.47</i>	<i>152.76</i>	<i>165.20</i>	<i>38.73</i>	<i>30.6%</i>	<i>12.44</i>	<i>8.1%</i>
GEO	885.32	885.27	906.44	21.12	2.4%	21.17	2.4%
MPS	1,312.42	1,308.94	1,345.18	32.76	2.5%	36.24	2.8%
SBE	247.33	254.25	259.55	12.22	4.9%	5.30	2.1%
OCI ¹	300.75	211.64	218.27	-82.48	-27.4%	6.63	3.1%
OISE	49.03	49.85	51.28	2.25	4.6%	1.43	2.9%
OPP ²	440.70	435.87	449.74	9.04	2.1%	13.87	3.2%
IA	259.60	349.59	431.52	171.92	66.2%	81.93	23.4%
U.S. Arctic Research Commission	1.58	1.45	1.39	-0.19	-11.8%	-0.06	-4.1%
Research & Related Activities	\$5,608.38	\$5,689.00	\$5,983.28	\$374.90	6.7%	\$294.28	5.2%
Education & Human Resources	\$861.04	\$829.00	\$875.61	\$14.57	1.7%	\$46.61	5.6%
Major Research Equipment & Facilities Construction	\$125.37	\$197.06	\$196.17	\$70.80	56.5%	-\$0.89	-0.4%
Agency Operations & Award Management	\$299.29	\$299.40	\$299.40	\$0.11	0.0%	-	-
National Science Board	\$4.47	\$4.44	\$4.44	-\$0.03	-0.7%	-	-
Office of Inspector General	\$13.92	\$14.20	\$14.20	\$0.28	2.0%	-	-
OIG FY 2011 ARRA Obligations	\$0.08	-	-	-	-	-	-
Total, NSF	\$6,912.55	\$7,033.10	\$7,373.10	\$460.55	6.7%	\$340.00	4.8%

Totals may not add due to rounding.

¹ FY 2011 Actual for OCI includes \$90.50 million in funds that were obligated in FY 2010, deobligated in FY 2011, and then obligated in FY 2011 to other projects in the OCI portfolio.

² Funding for OPP for FY 2011 excludes a one-time appropriation transfer of \$53.892 million, \$54.0 million less the 0.2% rescission, to U.S. Coast Guard per P.L. 112-10.

NSF Funding Profile

The Funding Profile presents a high level, agency-wide estimate of proposal pressure, funding rates (or proposal "success"), and award statistics. These indicators are useful in gauging the relative efficacy of different funding levels.

Statistics for Competitive Awards: The Number of Proposals is based on several factors, including past actual activity, planned competitions, and research trends within the various disciplinary communities. External factors, such as the state of the national economy and other sources of funding, also play a part. The Number of Awards is also based on several factors, including estimated funding and expected proposal pool. The Funding Rate is the number of competitive awards made during a year as a percentage of total proposals competitively reviewed. This indicates the probability of receiving an award when submitting proposals to NSF.

Statistics for Research Grants: The Number of Proposals is based on several factors, including past actual activity, planned competitions, and research trends within the various disciplinary communities. External factors, such as the state of the national economy and other sources of funding, also play a part. The Number of Awards is also based on several factors, including estimated funding and expected proposal pool. Research Grants are grants limited to research projects and exclude other categories of awards that fund infrastructure-type activities, which do not require multi-year support, such as equipment and conference awards. Annualized Award Size shows the annual level of research grants provided to awardees by dividing the total dollars of each award by the number of years over which it extends. Both the average and the median annualized award size for competitively reviewed awards are shown. Average Duration is the length of awards in years.

NSF Funding Profile

	FY 2011		
	Actual Estimate ¹	FY 2012 Estimate	FY 2013 Estimate
Statistics for Competitive Awards			
Number of Proposals	51,400	53,400	55,100
Number of Awards	11,150	11,700	12,200
Funding Rate	22%	22%	22%
Statistics for Research Grants			
Number of Research Grant Proposals	38,600	40,050	41,350
Number of Research Grant Awards	7,550	7,850	8,150
Funding Rate	20%	20%	20%
Median Annualized Award Size	\$125,950	\$128,500	\$128,700
Average Annualized Award Size	\$156,200	\$161,250	\$160,500
Average Duration (years)	2.9	2.9	2.9

¹ The FY 2011 Actual Estimate does not capture actions within Integrative Activities (IA), which includes the Experimental Program to Stimulate Competitive Research.

Number of People Involved in NSF Activities

NSF estimates that in FY 2013 more than 284,500 people will be directly involved in NSF programs and activities, receiving salaries, stipends, or participant support. Beyond these figures, NSF programs indirectly impact millions of people. These programs reach K-12 students and teachers, the general public, and researchers through activities including workshops; informal science activities such as museums, television, videos, and journals; outreach efforts; and dissemination of improved curriculum and teaching methods.

FY 2013 Request			
Number of People Involved in NSF Activities			
	FY 2011		
	Actual	FY 2012	FY 2013
	Estimate	Estimate	Estimate
Senior Researchers	53,073	53,930	55,660
Other Professionals	14,441	14,595	14,975
Postdoctoral Associates	6,855	6,935	7,135
Graduate Students	40,163	40,885	42,160
Undergraduate Students	27,039	27,400	28,090
K-12 Teachers	48,086	48,115	48,850
K-12 Students	86,225	86,310	87,645
TOTAL, PEOPLE	275,882	278,170	284,515

Senior Researchers include scientists, mathematicians, engineers, and educators receiving funding through NSF awards. These include both researchers who are principal or co-principal investigators on research and education projects, and researchers working at NSF-supported centers and facilities.

Other Professionals are individuals who may or may not hold a doctoral degree or its equivalent, are considered professionals but are not reported as senior researchers, postdoctoral associates, or students. Examples are technicians, systems experts, etc.

Postdoctoral Associates are individuals who have received Ph.D., M.D., D.Sc., or equivalent and are not faculty members of the performing institution. About 98 percent are supported through funds included in research projects, centers, or facilities awards. Others are recipients of postdoctoral fellowships.

Graduate Students include those compensated from NSF grant funds. About 30 percent receive support through programs such as NSF Graduate Research Fellowship and NSF Integrative Graduate Education and Research Traineeship. Other graduate students supported assist senior researchers or postdoctoral associates in performing research through awards for research projects, centers, or facilities. NSF provides support for about 5 percent of the science and engineering graduate students in the U.S.

Undergraduate Students include students compensated from NSF grant funds who are enrolled in technical colleges or baccalaureate programs. They may be assisting senior researchers or postdoctoral associates in performing research, or participating in NSF programs aimed at undergraduate students, such as Research Experiences for Undergraduates.

K-12 Teachers include teachers at elementary, middle, and secondary schools. These individuals actively participate in intensive professional development experiences in the sciences and mathematics.

K-12 Students are those attending elementary, middle, and secondary schools. They are supported through program components that directly engage students in science and mathematics experiences.

NSF By Account
Obligations, FY 1980 - FY 2013 Request
(Actual Obligations in Millions - Current Dollars)

Fiscal Year	Research & Related Activities	Education & Human Resources	Academic Research Infrastructure ¹	Major Research Equipment & Facilities Construction	Agency Operations & Award Management	Office of Inspector General	National Science Board	NSF
1980	836.83	80.06	-	-	58.24	-	-	975.13
1981	900.36	75.70	-	-	59.21	-	-	1,035.27
1982	909.75	26.20	-	-	63.18	-	-	999.14
1983	1,013.02	22.98	-	-	65.70	-	-	1,101.69
1984	1,177.70	62.97	-	-	66.26	-	-	1,306.92
1985	1,344.56	90.56	-	-	71.95	-	-	1,507.07
1986	1,329.64	91.69	-	-	71.84	-	-	1,493.17
1987	1,439.97	109.88	-	-	77.77	-	-	1,627.62
1988	1,481.31	156.79	-	-	84.47	-	-	1,722.57
1989	1,600.53	194.06	-	-	91.29	-	-	1,885.88
1990	1,696.56	230.41	0.41	-	96.35	2.33	-	2,026.06
1991	1,868.45	331.91	39.02	-	101.23	2.89	-	2,343.49
1992	1,940.48	459.44	33.36	-	109.99	3.86	-	2,547.13
1993	2,046.31	505.06	49.75	34.07	110.84	3.69	-	2,749.73
1994	2,168.36	569.03	105.38	17.04	123.49	3.92	-	2,987.21
1995	2,281.46	611.88	117.46	126.00	129.01	4.46	-	3,270.27
1996	2,327.80	601.16	70.89	70.00	132.50	3.98	-	3,206.33
1997	2,433.93	619.14	30.02	76.13	134.27	5.33	-	3,298.82
1998	2,572.62	633.16	-	78.21	136.95	4.80	-	3,425.73
1999	2,821.61	662.48	-	56.71	144.08	5.41	-	3,690.28
2000	2,979.90	683.58	-	105.00	149.28	5.60	-	3,923.36
2001	3,372.30	795.42	-	119.24	166.33	6.58	-	4,459.87
2002	3,615.97	866.11	-	115.35	169.93	6.70	-	4,774.06
2003	4,054.43	934.88	-	179.03	189.42	8.70	2.88	5,369.34
2004	4,293.34	944.10	-	183.96	218.92	9.47	2.22	5,652.01
2005	4,234.82	843.54	-	165.14	223.45	10.17	3.65	5,480.77
2006	4,351.03	798.48	-	233.81	247.06	11.47	3.94	5,645.79
2007	4,656.33	797.76	-	166.21	248.49	11.92	3.65	5,884.37
2008	4,853.24	766.26	-	166.85	282.04	11.83	3.82	6,084.04
<i>2009 Omnibus</i>	<i>5,152.39</i>	<i>845.52</i>	<i>-</i>	<i>160.76</i>	<i>294.09</i>	<i>11.99</i>	<i>4.02</i>	<i>6,468.76</i>
<i>2009 ARRA</i>	<i>2,062.64</i>	<i>85.00</i>	<i>-</i>	<i>254.00</i>	<i>-</i>	<i>0.02</i>	<i>-</i>	<i>2,401.66</i>
2009 Total	7,215.03	930.52	-	414.76	294.09	12.01	4.02	8,870.42
<i>2010 Omnibus</i>	<i>5,615.33</i>	<i>872.77</i>	<i>-</i>	<i>165.90</i>	<i>299.85</i>	<i>13.97</i>	<i>4.38</i>	<i>6,972.20</i>
<i>2010 ARRA</i>	<i>439.17</i>	<i>15.00</i>	<i>-</i>	<i>146.00</i>	<i>-</i>	<i>0.05</i>	<i>-</i>	<i>600.22</i>
2010 Total	6,054.50	887.77	-	311.90	299.85	14.03	4.38	7,572.42
<i>2011 Omnibus</i>	<i>5,608.38</i>	<i>861.04</i>	<i>-</i>	<i>125.37</i>	<i>299.29</i>	<i>13.92</i>	<i>4.47</i>	<i>6,912.46</i>
<i>2011 ARRA</i>	<i>-</i>	<i>-</i>	<i>-</i>	<i>-</i>	<i>-</i>	<i>0.08</i>	<i>-</i>	<i>0.08</i>
2011 Total	5,608.38	861.04	-	125.37	299.29	14.00	4.47	6,912.55
2012 Estimate	5,689.00	829.00	-	197.06	299.40	14.20	4.44	7,033.10
2013 Request	5,983.28	875.61	-	196.17	299.40	14.20	4.44	7,373.10

Totals may not add due to rounding.

¹ In addition to the specific appropriations for Academic Research Infrastructure (ARI) from FY 1990 to FY 1997, \$200.0 million was provided for ARI in the R&RA account under ARRA.

NSF By Account
 Obligations, 1980 - FY 2013 Request
 (FY 2012 Constant Dollars in Millions)

Fiscal Year	Research & Related Activities	Education & Human Resources	Academic Research Infrastructure ¹	Major Research Equipment & Facilities Construction	Agency Operations & Award Management	Office of Inspector General	National Science Board	NSF
1980	2,057.35	196.83	-	-	143.18	-	-	2,397.36
1981	2,015.08	169.42	-	-	132.51	-	-	2,317.00
1982	1,905.73	54.89	-	-	132.35	-	-	2,092.96
1983	2,032.71	46.11	-	-	131.83	-	-	2,210.64
1984	2,278.66	121.83	-	-	128.20	-	-	2,528.69
1985	2,519.86	169.71	-	-	134.84	-	-	2,824.41
1986	2,435.53	167.95	-	-	131.58	-	-	2,735.07
1987	2,568.97	196.03	-	-	138.74	-	-	2,903.74
1988	2,560.67	271.04	-	-	146.01	-	-	2,977.73
1989	2,663.41	322.93	-	-	151.91	-	-	3,138.25
1990	2,723.06	369.82	0.66	-	154.65	3.74	-	3,251.91
1991	2,889.24	513.24	60.34	-	156.53	4.46	-	3,623.80
1992	2,924.48	692.42	50.27	-	165.77	5.81	-	3,838.76
1993	3,017.62	744.80	73.37	50.24	163.45	5.44	-	4,054.92
1994	3,131.41	821.76	152.18	24.61	178.34	5.65	-	4,313.95
1995	3,226.36	865.30	166.10	178.18	182.45	6.31	-	4,624.70
1996	3,229.58	834.05	98.36	97.12	183.82	5.51	-	4,448.45
1997	3,315.66	843.43	40.90	103.71	182.91	7.26	-	4,493.88
1998	3,460.64	851.71	-	105.20	184.22	6.45	-	4,608.22
1999	3,745.97	879.51	-	75.28	191.28	7.18	-	4,899.23
2000	3,879.20	889.88	-	136.69	194.33	7.29	-	5,107.38
2001	4,289.26	1,011.70	-	151.66	211.56	8.37	-	5,672.55
2002	4,524.16	1,083.64	-	144.32	212.61	8.38	-	5,973.12
2003	4,971.25	1,146.28	-	219.51	232.25	10.67	3.53	6,583.50
2004	5,134.28	1,129.02	-	219.99	261.80	11.32	2.65	6,759.07
2005	4,904.77	976.99	-	191.27	258.80	11.78	4.23	6,347.83
2006	4,873.66	894.39	-	261.89	276.74	12.85	4.41	6,323.94
2007	5,065.72	867.90	-	180.82	270.34	12.97	3.97	6,401.72
2008	5,160.22	814.73	-	177.40	299.88	12.57	4.07	6,468.86
<i>2009 Omnibus</i>	<i>5,400.45</i>	<i>886.22</i>	<i>-</i>	<i>168.49</i>	<i>308.25</i>	<i>12.57</i>	<i>4.22</i>	<i>6,780.20</i>
<i>2009 ARRA</i>	<i>2,161.95</i>	<i>89.09</i>	<i>-</i>	<i>266.23</i>	<i>-</i>	<i>0.02</i>	<i>-</i>	<i>2,517.29</i>
2009 Total	7,562.40	975.31	-	434.72	308.25	12.59	4.22	9,297.49
<i>2010 Omnibus</i>	<i>5,831.85</i>	<i>906.42</i>	<i>-</i>	<i>172.29</i>	<i>311.41</i>	<i>14.51</i>	<i>4.55</i>	<i>7,241.04</i>
<i>2010 ARRA</i>	<i>456.10</i>	<i>15.58</i>	<i>-</i>	<i>151.63</i>	<i>-</i>	<i>0.06</i>	<i>-</i>	<i>623.36</i>
2010 Total	6,287.95	922.00	-	323.92	311.41	14.57	4.55	7,864.40
<i>2011 Omnibus</i>	<i>5,711.95</i>	<i>876.94</i>	<i>-</i>	<i>127.69</i>	<i>304.82</i>	<i>14.17</i>	<i>4.55</i>	<i>7,040.11</i>
<i>2011 ARRA</i>	<i>-</i>	<i>-</i>	<i>-</i>	<i>-</i>	<i>-</i>	<i>0.08</i>	<i>-</i>	<i>0.08</i>
2011 Total	5,711.95	876.94	-	127.69	304.82	14.26	4.55	7,040.20
2012 Estimate	5,689.00	829.00	-	197.06	299.40	14.20	4.44	7,033.10
2013 Request	5,885.71	861.33	-	192.97	294.52	13.97	4.37	7,252.87

Totals may not add due to rounding.

¹ In addition to the specific appropriations for Academic Research Infrastructure (ARI) from FY 1990 to FY 1997, \$200.0 million was provided for ARI in the R&RA account under ARRA.

**National Science Foundation
Selected Cross-Cutting Programs
FY 2013 Request to Congress**

(Dollars in Millions)

Selected Cross-Cutting Programs		FY 2011 Actual	FY 2012 Estimate	FY 2013 Request	FY 2013 Request change over:			
					FY 2011 Actual		FY 2012 Estimate	
		Amount	Percent	Amount	Percent	Amount	Percent	
ADVANCE	Research & Related Activities	18.27	16.42	15.53	-2.74	-15.0%	-0.89	-5.4%
	Education & Human Resources	1.52	1.53	1.53	0.01	0.8%	-	-
	Total, NSF	\$19.79	\$17.95	\$17.06	-\$2.73	-13.8%	-\$0.89	-5.0%
Research at the Interface of Biological, Math, and Physical Sciences (BioMaPS)	Research & Related Activities	8.94	20.00	30.17	21.23	237.5%	10.17	50.9%
	Education & Human Resources	-	-	-	-	N/A	-	N/A
	Total, NSF	\$8.94	\$20.00	\$30.17	\$21.23	237.5%	\$10.17	50.9%
Climate Change Education Program	Research & Related Activities	4.06	4.50	1.50	-2.56	-63.0%	-3.00	-66.7%
	Education & Human Resources	5.43	5.50	4.76	-0.67	-12.4%	-0.74	-13.5%
	Total, NSF	\$9.49	\$10.00	\$6.26	-\$3.23	-34.0%	-\$3.74	-37.4%
Enhancing Access to the Radio Spectrum (EARS)	Research & Related Activities	0.03	15.00	50.50	50.48	N/A	35.50	236.7%
	Education & Human Resources	-	-	-	-	N/A	-	N/A
	Total, NSF	\$0.03	\$15.00	\$50.50	\$50.48	N/A	\$35.50	236.7%
Faculty Early Career Development - CAREER	Research & Related Activities	229.33	206.35	216.49	-12.84	-5.6%	10.14	4.9%
	Education & Human Resources	-	-	-	-	N/A	-	N/A
	Total, NSF	\$229.33	\$206.35	\$216.49	-\$12.84	-5.6%	\$10.14	4.9%
Graduate Research Fellowship - GRF	Research & Related Activities	44.40	88.50	121.49	77.09	173.6%	32.99	37.3%
	Education & Human Resources	93.27	109.64	121.49	28.22	30.3%	11.85	10.8%
	Total, NSF	\$137.67	\$198.14	\$242.98	\$105.31	76.5%	\$44.84	22.6%
Graduate STEM Fellows in K-12 Education - GK-12	Research & Related Activities	6.30	-	-	-6.30	-100.0%	-	N/A
	Education & Human Resources	48.18	26.95	27.00	-21.18	-44.0%	0.05	0.2%
	Total, NSF	\$54.48	\$26.95	\$27.00	-\$27.48	-50.4%	\$0.05	0.2%
Integrative Graduate Education and Research Traineeship - IGERT	Research & Related Activities	31.46	28.62	25.42	-6.04	-19.2%	-3.20	-11.2%
	Education & Human Resources	29.60	31.20	26.27	-3.33	-11.3%	-4.93	-15.8%
	Total, NSF	\$61.07	\$59.82	\$51.69	-\$9.38	-15.4%	-\$8.13	-13.6%
Total, Graduate Fellowships & Traineeships	Research & Related Activities	\$82.17	\$117.12	\$146.91	64.74	78.8%	29.79	25.4%
	Education & Human Resources	\$171.05	\$167.79	\$174.76	3.71	2.2%	6.97	4.2%
	Total, NSF	\$253.21	\$284.91	\$321.67	\$68.46	27.0%	\$36.76	12.9%
Long-Term Ecological Research Sites - LTER	Research & Related Activities	26.26	27.40	27.97	1.71	6.5%	0.57	2.1%
	Education & Human Resources	-	-	-	-	N/A	-	N/A
	Total, NSF	\$26.26	\$27.40	\$27.97	\$1.71	6.5%	\$0.57	2.1%
Research Experiences for Teachers - RET	Research & Related Activities	8.76	6.98	5.47	-3.29	-37.5%	-1.51	-21.6%
	Education & Human Resources	-	-	-	-	N/A	-	N/A
	Total, NSF	\$8.76	\$6.98	\$5.47	-\$3.29	-37.5%	-\$1.51	-21.6%
Research Experiences for Undergraduates - REU - Sites Only	Research & Related Activities	59.98	48.27	50.62	-9.36	-15.6%	2.35	4.9%
	Education & Human Resources	-	-	-	-	N/A	-	N/A
	Total, NSF	\$59.98	\$48.27	\$50.62	-\$9.36	-15.6%	\$2.35	4.9%
Research Experiences for Undergraduates - REU - Supplements Only	Research & Related Activities	18.66	17.72	17.78	-0.88	-4.7%	0.06	0.3%
	Education & Human Resources	-	-	-	-	N/A	-	N/A
	Total, NSF	\$18.66	\$17.72	\$17.78	-\$0.88	-4.7%	\$0.06	0.3%
Total, Research Experiences for Undergraduates - REU	Research & Related Activities	78.63	65.99	68.40	-10.23	-13.0%	2.41	3.7%
	Education & Human Resources	-	-	-	-	N/A	-	N/A
	Total, NSF	\$78.63	\$65.99	\$68.40	-\$10.23	-13.0%	\$2.41	3.7%
Research in Undergraduate Institutions - RUI	Research & Related Activities	58.63	40.15	40.15	-18.48	-31.5%	-	-
	Education & Human Resources	-	-	-	-	N/A	-	N/A
	Total, NSF	\$58.63	\$40.15	\$40.15	-\$18.48	-31.5%	-	-
Science and Technology Centers - STCs	Research & Related Activities	66.10	50.75	74.39	8.29	12.5%	23.64	46.6%
	Education & Human Resources	-	-	-	-	N/A	-	N/A
	Total, NSF	\$66.10	\$50.75	\$74.39	\$8.29	12.5%	\$23.64	46.6%

Totals may not add due to rounding.

**National Science Foundation
NSTC Crosscuts Summary
FY 2013 Request to Congress**

(Dollars in Millions)

	Climate Change Technology Program							U.S. Global Change Research Program						
	FY 2011 Actual	FY 2012 Estimate	FY 2013 Request	FY 2013 Request change over:				FY 2011 Actual	FY 2012 Estimate	FY 2013 Request	FY 2013 Request change over:			
				FY 2011 Actual		FY 2012 Estimate					FY 2011 Actual		FY 2012 Estimate	
				Amount	Percent	Amount	Percent				Amount	Percent	Amount	Percent
BIO	-	-	-	-	N/A	-	N/A	\$81.00	\$89.00	\$91.00	\$10.00	12.3%	\$2.00	2.2%
CISE	-	-	-	-	N/A	-	N/A	-	-	-	-	N/A	-	N/A
ENG	\$28.50	\$28.50	\$29.00	\$0.50	1.8%	\$0.50	1.8%	-	-	-	-	N/A	-	N/A
GEO	-	-	-	-	N/A	-	N/A	194.00	194.00	194.00	-	-	-	-
MPS	-	-	-	-	N/A	-	N/A	3.32	5.03	8.03	4.71	141.6%	3.00	59.6%
SBE	-	-	-	-	N/A	-	N/A	20.73	22.23	23.23	2.50	12.1%	1.00	4.5%
OCI	-	-	-	-	N/A	-	N/A	-	-	-	-	N/A	-	N/A
OISE	1.85	1.21	1.16	-0.69	-37.4%	-0.05	-4.1%	-	-	-	-	N/A	-	N/A
OPP	-	-	-	-	N/A	-	N/A	18.52	23.10	16.65	-1.87	-10.1%	-6.45	-27.9%
IA	-	-	-	-	N/A	-	N/A	-	-	-	-	N/A	-	N/A
R&RA	\$30.35	\$29.71	\$30.16	-\$0.19	-0.6%	\$0.45	1.5%	\$317.57	\$333.36	\$332.91	\$15.34	4.8%	-\$0.45	-0.1%
EHR	-	-	-	-	N/A	-	N/A	-	-	-	-	N/A	-	N/A
NSF Total	\$30.35	\$29.71	\$30.16	-\$0.19	-0.6%	\$0.45	1.5%	\$317.57	\$333.36	\$332.91	\$15.34	4.8%	-\$0.45	-0.1%

	Networking and Information Technology Research and Development							National Nanotechnology Initiative						
	FY 2011 Actual	FY 2012 Estimate	FY 2013 Request	FY 2013 Request change over:				FY 2011 Actual	FY 2012 Estimate	FY 2013 Request	FY 2013 Request change over:			
				FY 2011 Actual		FY 2012 Estimate					FY 2011 Actual		FY 2012 Estimate	
				Amount	Percent	Amount	Percent				Amount	Percent	Amount	Percent
BIO	\$93.00	\$99.00	\$99.00	\$6.00	6.5%	-	-	\$56.36	\$56.10	\$57.10	\$0.74	1.3%	\$1.00	1.8%
CISE	636.06	653.59	709.72	73.66	11.6%	\$56.13	8.6%	17.45	17.75	17.75	0.30	1.7%	-	-
ENG	21.00	18.30	19.80	-1.20	-5.7%	1.50	8.2%	181.59	166.37	174.37	-7.22	-4.0%	8.00	4.8%
GEO	22.98	22.98	26.98	4.00	17.4%	4.00	17.4%	0.85	0.85	0.75	-0.10	-11.8%	-0.10	-11.8%
MPS	83.88	93.75	94.75	10.87	13.0%	1.00	1.1%	224.56	183.16	183.16	-41.40	-18.4%	-	-
SBE	22.21	29.51	29.20	6.99	31.5%	-0.31	-1.1%	1.67	1.67	1.67	-	0.0%	-	-
OCI	300.75	211.64	218.27	-82.48	-27.4%	6.63	3.1%	-	-	-	-	N/A	-	N/A
OISE	-	-	-	-	N/A	-	N/A	0.10	0.10	0.10	-	-	-	-
OPP	-	-	-	-	N/A	-	N/A	-	-	-	-	N/A	-	N/A
IA	-	-	-	-	N/A	-	N/A	-	-	-	-	N/A	-	N/A
R&RA	\$1,179.88	\$1,128.77	\$1,197.72	\$17.84	1.5%	\$68.95	6.1%	\$482.58	\$426.00	\$434.90	-\$47.68	-9.9%	\$8.90	2.1%
EHR	\$9.50	\$9.50	\$9.50	-	-	-	-	\$2.50	-	-	-\$2.50	-100.0%	-	N/A
NSF Total	\$1,189.38	\$1,138.27	\$1,207.22	\$17.84	1.5%	\$68.95	6.1%	\$485.08	\$426.00	\$434.90	-\$50.18	-10.3%	\$8.90	2.1%

Totals may not add due to rounding.

Summary Tables

**National Science Foundation
Homeland Security Activities Summary
FY 2013 Request to Congress**

(Dollars in Millions)

	BIO	CISE	ENG	GEO	MPS	SBE	OCI	OPP	IA	R&RA	EHR	AOAM	Total, NSF
FY 2011 Actual	\$15.00	\$179.80	\$157.30	-	\$1.09	\$4.50	\$4.84	\$2.68	\$2.58	\$367.80	\$15.17	\$2.79	\$385.76
Protecting Critical Infrastructure & Key Assets	-	\$179.80	\$157.30	-	\$1.09	\$4.50	\$4.84	\$2.68	\$2.58	\$352.80	\$15.17	\$2.79	\$370.76
Antarctic Physical Security	-	-	-	-	-	-	-	0.28	-	0.28	-	-	0.28
Counterterrorism	-	27.00	-	-	-	-	-	-	-	27.00	-	-	27.00
Cybersecurity	-	123.50	3.10	-	-	-	4.84	-	-	131.44	-	-	131.44
Electronic Commerce	-	4.50	3.40	-	-	-	-	-	-	7.90	-	-	7.90
Emergency Planning & Response	-	24.80	25.80	-	0.29	-	-	-	-	50.89	-	-	50.89
Energy Supply Assurance	-	-	28.50	-	-	-	-	-	-	28.50	-	-	28.50
IT Security	-	-	-	-	-	-	-	2.40	2.58	4.98	0.38	2.79	8.15
Resilient Infrastructure (Risk Mgmt, Modeling, Simul)	-	-	96.50	-	0.81	4.50	-	-	-	101.81	-	-	101.81
Scholarships for Service / Cybercorps	-	-	-	-	-	-	-	-	-	-	14.79	-	14.79
Defending Against Catastrophic Threats	\$15.00	-	-	-	-	-	-	-	-	\$15.00	-	-	\$15.00
Research to Combat Bioterrorism	15.00	-	-	-	-	-	-	-	-	15.00	-	-	15.00
<i>Microbial Genomics, Analysis & Modeling</i>	15.00	-	-	-	-	-	-	-	-	15.00	-	-	15.00
FY 2012 Estimate	\$15.00	\$179.80	\$156.70	-	\$4.80	\$11.50	\$21.00	\$4.30	\$2.58	\$395.68	\$45.38	\$2.79	\$443.85
Protecting Critical Infrastructure & Key Assets	-	\$179.80	\$156.70	-	\$4.80	\$11.50	\$21.00	\$4.30	\$2.58	\$380.68	\$45.38	\$2.79	\$428.85
Antarctic Physical Security	-	-	-	-	-	-	-	0.30	-	0.30	-	-	0.30
Counterterrorism	-	27.00	-	-	-	-	-	-	-	27.00	-	-	27.00
Cybersecurity	-	123.50	5.05	-	1.00	6.00	21.00	-	-	156.55	-	-	156.55
Electronic Commerce	-	4.50	3.35	-	-	-	-	-	-	7.85	-	-	7.85
Emergency Planning & Response	-	24.80	25.30	-	3.10	-	-	-	-	53.20	-	-	53.20
Energy Supply Assurance	-	-	28.00	-	-	-	-	-	-	28.00	-	-	28.00
IT Security	-	-	-	-	-	-	-	4.00	2.58	6.58	0.38	2.79	9.75
Resilient Infrastructure (Risk Mgmt, Modeling, Simul)	-	-	95.00	-	0.70	5.50	-	-	-	101.20	-	-	101.20
Scholarships for Service / Cybercorps	-	-	-	-	-	-	-	-	-	-	45.00	-	45.00
Defending Against Catastrophic Threats	\$15.00	-	-	-	-	-	-	-	-	\$15.00	-	-	\$15.00
Research to Combat Bioterrorism	15.00	-	-	-	-	-	-	-	-	15.00	-	-	15.00
<i>Microbial Genomics, Analysis & Modeling</i>	15.00	-	-	-	-	-	-	-	-	15.00	-	-	15.00
Delta from FY 2012 Estimate to FY 2013 Request	-	\$4.50	-\$0.80	-	\$0.50	-\$0.50	\$0.00	-\$1.62	-	\$2.08	-\$20.00	-	-\$17.92
Protecting Critical Infrastructure & Key Assets	-	\$4.50	-\$0.80	-	\$0.50	-\$0.50	-	-\$1.62	-	\$2.08	-\$20.00	-	-\$17.92
Antarctic Physical Security	-	-	-	-	-	-	-	-0.02	-	-0.02	-	-	-0.02
Counterterrorism	-	-	-	-	-	-	-	-	-	-	-	-	-
Cybersecurity	-	4.50	-0.80	-	1.00	-	-	-	-	4.70	-	-	4.70
Electronic Commerce	-	-	-	-	-	-	-	-	-	-	-	-	-
Emergency Planning & Response	-	-	-	-	-0.50	-	-	-	-	-0.50	-	-	-0.50
Energy Supply Assurance	-	-	-	-	-	-	-	-	-	0.00	-	-	0.00
IT Security	-	-	-	-	-	-	-	-1.60	-	-1.60	-	-	-1.60
Resilient Infrastructure (Risk Mgmt, Modeling, Simul)	-	-	-	-	-	-0.50	-	-	-	-0.50	-	-	-0.50
Scholarships for Service / Cybercorps	-	-	-	-	-	-	-	-	-	-	-20.00	-	-20.00
Defending Against Catastrophic Threats	\$0.00	-	-	-	-	-	-	-	-	-	-	-	-
Research to Combat Bioterrorism	-	-	-	-	-	-	-	-	-	-	-	-	-
<i>Microbial Genomics, Analysis & Modeling</i>	-	-	-	-	-	-	-	-	-	-	-	-	-
FY 2013 Request	\$15.00	\$184.30	\$155.90	-	\$5.30	\$11.00	\$21.00	\$2.68	\$2.58	\$397.76	\$25.38	\$2.79	\$425.93
Protecting Critical Infrastructure & Key Assets	-	\$184.30	\$155.90	-	\$5.30	\$11.00	\$21.00	\$2.68	\$2.58	\$382.76	\$25.38	\$2.79	\$410.93
Antarctic Physical Security	-	-	-	-	-	-	-	0.28	-	0.28	-	-	0.28
Counterterrorism	-	27.00	-	-	-	-	-	-	-	27.00	-	-	27.00
Cybersecurity	-	128.00	4.25	-	2.00	6.00	21.00	-	-	161.25	-	-	161.25
Electronic Commerce	-	4.50	3.35	-	-	-	-	-	-	7.85	-	-	7.85
Emergency Planning & Response	-	24.80	25.30	-	2.60	-	-	-	-	52.70	-	-	52.70
Energy Supply Assurance	-	-	28.00	-	-	-	-	-	-	28.00	-	-	28.00
IT Security	-	-	-	-	-	-	-	2.40	2.58	4.98	0.38	2.79	8.15
Resilient Infrastructure (Risk Mgmt, Modeling, Simul)	-	-	95.00	-	0.70	5.00	-	-	-	100.70	-	-	100.70
Scholarships for Service / Cybercorps	-	-	-	-	-	-	-	-	-	-	25.00	-	25.00
Defending Against Catastrophic Threats	\$15.00	-	-	-	-	-	-	-	-	\$15.00	-	-	\$15.00
Research to Combat Bioterrorism	15.00	-	-	-	-	-	-	-	-	15.00	-	-	15.00
<i>Microbial Genomics, Analysis & Modeling</i>	15.00	-	-	-	-	-	-	-	-	15.00	-	-	15.00

Totals may not add due to rounding.

NSF Programs to Broaden Participation
FY 2013 Request to Congress

(Dollars in Millions)

	FY 2011 Actual	FY 2012 Estimate	FY 2013 Request	FY 2013 Request change over:			
				FY 2011 Actual		FY 2012 Estimate	
				Amount	Percent	Amount	Percent
ADVANCE	\$19.79	\$17.95	\$17.06	-\$2.73	-13.8%	-\$0.89	-5.0%
<i>ADVANCE - R&RA</i>	18.27	16.42	15.53	-2.74	-15.0%	-0.89	-5.4%
<i>ADVANCE - EHR</i>	1.52	1.53	1.53	0.01	0.8%	-	-
Advanced Technological Education (ATE)	64.35	64.00	64.00	-0.35	-0.5%	-	-
Alliances for Graduate Education and the Profession (AGEP) ¹	16.69	7.84	7.84	-8.85	-53.0%	-	-
Alliances for Graduate Education and the Profession (AGEP) Graduate Research Supplements ^{1,2}	-	2.00	2.00	2.00	N/A	-	-
Broadening Participation in Computing (BPC)	8.00	-	-	-8.00	-100.0%	-	N/A
Centers of Research Excellence in Science and Technology (CREST)	30.43	24.24	24.24	-6.19	-20.3%	-	-
Computing Education for the 21st Century (CE21)	13.14	12.50	16.00	2.86	21.8%	3.50	28.0%
<i>CE21 - R&RA</i>	13.14	12.50	16.00	2.86	21.8%	3.50	28.0%
<i>CE21 - EHR</i>	-	-	-	-	N/A	-	N/A
Transforming Broadening Participation through STEM (TBPS)	-	-	-	-	N/A	-	N/A
Cyberinfrastructure Training, Education, Advancement and Mentoring (CI-TEAM)	5.12	4.00	-	-5.12	-100.0%	-4.00	-100.0%
Experimental Program to Stimulate Competitive Research (EPSCoR)	146.82	150.90	158.19	11.37	7.7%	7.29	4.8%
GEO LSAMP Linkages	1.00	1.00	1.00	-	-	-	-
Graduate Research Diversity Supplements (GRDS) - ENG	1.57	1.50	1.50	-0.07	-4.3%	-	-
H-1B Nonimmigrant Petitioner Fee programs	96.30	100.00	100.00	3.70	3.8%	-	-
Historically-Black Colleges and Universities-Undergraduate Program (HBCU-UP)	31.93	31.94	31.94	0.01	0.0%	-	-
Advancing Informal STEM Learning (AISL) ¹	64.21	61.40	47.82	-16.39	-25.5%	-13.58	-22.1%
Interdisciplinary Training for Undergraduates in Biological and Mathematical Sciences (UBM)	2.74	-	-	-2.74	-100.0%	-	N/A
Louis Stokes Alliances for Minority Participation (LSAMP)	45.63	45.62	45.62	-0.01	0.0%	-	-
Math and Science Partnership (MSP)	57.12	57.08	57.08	-0.04	-0.1%	-	-
Minority Post-Docs	3.86	3.50	3.60	-0.26	-6.7%	0.10	2.9%
<i>BIO Minority Post-Docs</i>	2.91	2.50	2.50	-0.41	-14.0%	-	-
<i>SBE Minority Post-Docs</i>	0.95	1.00	1.10	0.15	15.7%	0.10	10.0%
Noyce Scholarships	54.90	54.89	54.89	-0.01	0.0%	-	-
Ocean Sciences Postdoctoral Fellowship ³	-	1.90	1.90	1.90	N/A	-	-
Ocean Sciences Research Initiation Grants (OCE-RIG) ⁴	-	0.60	0.60	0.60	N/A	-	-
Opportunities to Enhance Diversity in the Geosciences (OEDG)	3.65	3.60	3.60	-0.05	-1.3%	-	-
Partnerships for Innovation (PFI)	7.67	8.00	8.20	0.53	6.8%	0.20	2.5%
Partnerships in AST & Astrophysics Rsch Educ (PAARE) ⁵	0.99	1.00	1.00	0.01	1.2%	-	-
Partnerships for Research and Education in Materials (PREM) - MPS	2.66	5.58	6.00	3.34	125.6%	0.42	7.5%
Pre-Engineering Education Collaboratives (PEEC) ⁶	1.00	1.00	1.00	-	-	-	-
Research in Disabilities Education (RDE) ^{1,7}	6.53	6.50	6.50	-0.03	-0.5%	-	-
Research Initiation Grants in Biology (RIG)	0.56	-	-	-0.56	-100.0%	-	N/A
Research on Gender in Science and Engineering (GSE) ^{1,7}	10.42	10.50	10.50	0.08	0.8%	-	-
Science, Technology, Engineering and Math Talent Expansion Program (STEP)	33.23	25.30	17.30	-15.93	-47.9%	-8.00	-31.6%
<i>STEP - R&RA</i>	1.00	1.00	1.00	-	-	-	-
<i>STEP - EHR</i>	32.23	24.30	16.30	-15.93	-49.4%	-8.00	-32.9%
Significant Opportunities in Atmospheric Research and Science (SOARS) - GEO	0.60	0.62	0.62	0.02	3.3%	-	-
Tribal Colleges and Universities Program (TCUP)	13.33	13.31	13.31	-0.02	-0.1%	-	-
Undergraduate Research Mentoring in Biology (URM)	9.81	-	-	-9.81	-100.0%	-	N/A
Subtotal, R&RA	\$228.45	\$215.12	\$221.74	-\$6.71	-2.9%	\$6.62	3.1%
Subtotal, EHR	\$429.31	\$403.15	\$381.57	-\$47.74	-11.1%	-\$21.58	-5.4%
Subtotal, H-1B Nonimmigrant Petitioner Fees	\$96.30	\$100.00	\$100.00	\$3.70	3.8%	\$0.00	0.0%
TOTAL, NSF	\$754.05	\$718.27	\$703.31	-\$50.74	-6.7%	-\$14.96	-2.1%

Please note that this table displays a subset of the overall Broadening Participation portfolio. This list comprises the standard set of programs that have been historically tracked as Broadening Participation for budget purposes.

¹ In FY 2013, new program names are proposed: Advancing Informal STEM Learning (AISL), for Informal Science Education (ISE); Research on Education and Learning (REAL), for Research & Evaluation on Education in S&E (REESE), including Research on Disabilities in Education (RDE) and Research on Gender in Science and Engineering (GSE); and Alliances for Graduate Education and the Profession (AGEP), for Alliances for Graduate Education and the Professoriate (AGEP).

² Alliances for Graduate Education and the Profession (AGEP) Graduate Research Supplements is a new MPS program beginning in FY 2012.

³ The Ocean Sciences Postdoctoral Fellowship is a new program beginning in FY 2012.

⁴ Ocean Sciences Research Initiation Grants is a new program beginning in FY 2012.

⁵ Partnerships in Astronomy and Astrophysics Research Education (PAARE) replaces Research Partnerships for Diversity (RPD).

⁶ Pre-Engineering Education Collaboratives (PEEC) replaces Tribal College Pathways in ENG.

⁷ Funding for Research in Disabilities Education (RDE) and Research on Gender in Science and Engineering (GSE) is proposed to reside in the Research on Education and Learning (REAL) program (formerly Research & Evaluation on Education in S&E (REESE) in EHR.

**NSF STEM Education Programs by Level of Education
FY 2013 Request to Congress**

(Dollars in Millions)

	FY 2011 Actual	FY 2012 Estimate	FY 2013 Request	FY 2013 Request change over:			
				FY 2011 Actual		FY 2012 Estimate	
				Amount	Percent	Amount	Percent
K-12 Programs	\$267.50	\$244.63	\$262.84	-\$4.66	-1.7%	\$18.21	7.4%
Undergraduate Programs	523.06	483.86	500.63	-22.43	-4.3%	16.77	3.5%
Graduate & Professional Programs	327.79	373.64	395.10	67.31	20.5%	21.46	5.7%
Outreach and Informal Education Programs	74.74	70.79	56.21	-18.53	-24.8%	-14.58	-20.6%
TOTAL, NSF	\$1,193.09	\$1,172.92	\$1,214.78	\$21.69	1.8%	\$41.86	3.6%

National Science Foundation
FY 2013 STEM Education Programs by Level of Education
(Dollars in Millions)

Level of Education	Program Name	FY 2011	FY 2012	FY 2013	Change Over FY 2012 Estimate	
		Actual	Estimate	Request	Amount	Percent
	Minority-Serving Institutions	\$45.26	\$45.25	\$45.25	-	N/A
UG	Historically-Black Colleges and Universities Undergraduate Program (HBCU-UP)	31.93	31.94	31.94	-	N/A
UG	Tribal Colleges and Universities Program (TCUP)	13.33	13.31	13.31	-	N/A
	Fellowships/Scholarships	\$428.29	\$473.97	\$492.73	\$18.76	4.0%
UG	Broadening Participation in Computing (BPC)	8.00	-	-	-	N/A
G	East Asia & Pacific Summer Institutes for U.S. Graduate Students (EAPSI) ¹	1.50	2.40	2.40	-	N/A
G	Enhancing the Mathematical Sciences Workforce in the 21st Century (EMSW21)	15.48	11.77	13.77	2.00	17.0%
G	Federal Cyber Service: Scholarship for Service (SFS)	14.79	45.00	25.00	-20.00	-44.4%
G	Graduate Research Fellowship Program (GRFP)	137.67	198.14	242.98	44.84	22.6%
G	Graduate Teaching Fellows in K-12 Education (GK-12)	54.48	26.95	27.00	0.05	0.2%
UG	Interdisciplinary Training for Undergraduates in Biological and Mathematical Sciences	2.74	-	-	-	N/A
G	Integrative Graduate Education and Research Traineeship (IGERT) Program	61.07	59.82	51.69	-8.13	-13.6%
UG	NSF Scholarships in Science, Technology, Engineering, and Mathematics (S-STEM)	77.67	75.00	75.00	-	N/A
UG	Robert Noyce Scholarship (Noyce) Program	54.90	54.89	54.89	-	N/A
	Other Grant Programs	\$693.42	\$631.98	\$652.38	\$20.40	3.2%
UG	Advanced Technological Education (ATE)	64.35	64.00	64.00	-	N/A
G	Alliances for Graduate Education and the Profession (AGEP) ²	16.69	7.84	7.84	-	N/A
O&I	Centers for Ocean Sciences Education Excellence (COSEE)	5.35	4.24	3.24	-1.00	-23.6%
UG	CISE Pathways to Revitalized Undergraduate Computing Education (CPATH)	1.37	-	-	-	N/A
UG	Cyberinfrastructure Training, Education, Advancement & Mentoring (CI-TEAM)	5.12	4.00	-	-4.00	-100.0%
UG	Climate Change Education (CCE)	9.49	10.00	6.26	-3.74	-37.4%
UG	Computing Education for the 21st Century (CE21) ³	13.14	12.50	16.00	3.50	28.0%
K-12	Discovery Research K-12 (DR-K12)	120.00	99.23	114.23	15.00	15.1%
UG	Engineering Education (EE)	10.47	11.10	11.10	-	N/A
O&I	Excellence Awards in Science and Engineering (EASE)	5.18	5.15	5.15	-	N/A
UG	Geoscience Education ⁴	1.49	1.50	1.50	-	N/A
K-12	Geoscience Teacher Training (GEO-Teach)	2.00	2.00	2.00	-	N/A
K-12	Global Learning and Observations to Benefit the Environment (GLOBE) ⁴	1.06	1.10	1.10	-	N/A
O&I	Advancing Informal STEM Learning (AISL) ²	64.21	61.40	47.82	-13.58	-22.1%
K-12	Innovative Technology Experiences for Students and Teachers (ITEST)	18.62	25.00	25.00	-	N/A
UG	International Research Experiences for Students (IRES) ¹	4.47	3.15	2.25	-0.90	-28.6%
UG	Louis Stokes Alliances for Minority Participation (LSAMP)	45.63	45.62	45.62	-	N/A
K-12	Math and Science Partnership (MSP)	57.12	57.08	57.08	-	N/A
UG	Nanotechnology Undergraduate Education in Engineering (NUE) ⁴	1.67	1.50	1.50	-	N/A
UG	Opportunities for Enhancing Diversity in the Geosciences (OEDG)	3.65	3.60	3.60	-	N/A
K-12	Research Experiences for Teachers (RET) in Engineering and Computer Science ^{1,4}	6.16	5.50	4.00	-1.50	-27.3%
UG	Research Experiences for Undergraduates (REU) - Sites and Supplements	78.63	65.99	68.40	2.41	3.7%
K-12	Research in Disabilities Education (RDE) ²	6.53	6.50	6.50	-	N/A
K-12	Research on Education and Learning (REAL) ²	45.58	37.72	42.43	4.71	12.5%
K-12	Research on Gender in Science and Engineering (GSE) ²	10.42	10.50	10.50	-	N/A
UG	Science, Technology, Engineering, and Mathematics Talent Expansion Program (STEP)	33.23	25.30	17.30	-8.00	-31.6%
UG	Transforming Undergraduate Biology Education (TUBE)	10.71	13.00	6.50	-6.50	-50.0%
UG	Transforming Undergrad Education in STEM (TUES)	41.25	39.46	61.46	22.00	55.8%
UG	Undergraduate Research and Mentoring in the Biological Sciences (URM)	9.81	-	-	-	N/A
UG	Widening Implementation and Demonstration of Evidence-based Reforms (WIDER) ³	-	8.00	20.00	12.00	150.0%
	Subtotal, Above Categories	\$1,166.98	\$1,151.20	\$1,190.36	\$39.16	3.4%
G	NSF Postdoctoral Programs	\$26.12	\$21.72	\$24.42	\$2.70	12.4%
	<i>BIO Postdoctoral Research Fellowships in Biology</i>	5.29	3.80	3.80	-	N/A
	<i>GEO Postdoctoral Fellowships Programs³</i>	2.29	3.09	3.52	0.43	13.9%
	<i>MPS American Competitiveness in Chemistry Fellowships</i>	2.03	-	-	-	N/A
	<i>MPS Astronomy and Astrophysics Postdoctoral Fellowships</i>	1.83	2.40	2.40	-	N/A
	<i>MPS Math Sciences Postdoctoral Research Fellowships</i>	5.40	3.93	4.10	0.17	4.3%
	<i>SBE Minority Postdoctoral Fellowships</i>	0.95	1.00	1.10	0.10	10.0%
	<i>OCI Cyberinfrastructure Postdoctoral Fellowship (CITRaCS)</i>	2.64	2.00	4.90	2.90	145.0%
	<i>OISE International Research Fellowship program</i>	4.66	4.50	3.60	-0.90	-20.0%
	<i>OPP Polar Postdoctoral Fellowships</i>	1.04	1.00	1.00	-	N/A
	K-12 STEM Education Programs (K-12) Subtotal	\$267.50	\$244.63	\$262.84	\$18.21	7.4%
	Undergraduate STEM Education Programs (UG) Subtotal	\$523.06	\$483.86	\$500.63	\$16.77	3.5%
	Graduate STEM Education Programs (G) Subtotal	\$327.79	\$373.64	\$395.10	\$21.46	5.7%
	Outreach & Informal Ed STEM Education Programs (O&I) Subtotal	\$74.74	\$70.79	\$56.21	-\$14.58	-20.6%
	TOTAL, NSF STEM Education	\$1,193.09	\$1,172.92	\$1,214.78	\$41.86	3.6%

¹ Totals may not add due to rounding.

¹ East Asia & Pacific Summer Institutes for US Graduate Students (EAPSI), International Research Experiences for Students (IRES), and Research Experiences for Teachers (RET) Sites - ENG are existing programs added to the inventory in FY 2012.

² In FY 2013, new program names are proposed: Advancing Informal STEM Learning (AISL), for Informal Science Education (ISE); Research on Education and Learning (REAL), for Research & Evaluation on Education in S&E (REESE), including Research on Disabilities in Education (RDE) and Research on Gender in Science and Engineering (GSE), shown separately here; and Alliances for Graduate Education and the Profession (AGEP), for Alliances for Graduate Education and the Professoriate (AGEP).

³ Computing Education for the 21st Century (CE21), GEO Postdoctoral Fellowships Programs, Widening Implementation and Demonstration of Evidence-based Reforms (WIDER) are new programs proposed in the FY 2012 Request.

⁴ Geoscience Education, Global Learning and Observations to Benefit the Environment (GLOBE), Nanotechnology Undergraduate Education (NUE), and Research Experiences for Teachers (RET)-CISE are programs newly added to the inventory for the FY 2013 Request.

**National Science Foundation
Education and Human Resources (EHR) by Division and Program
FY 2013 Request in the FY 2013 Budget Structure**

(Dollars in Millions)

	FY 2011 Actual	FY 2012 Current Plan Estimate	FY 2013 Request	FY 2013 Request change over:			
				FY 2011 Actual		FY 2012 Current Plan Estimate	
				Amount	Percent	Amount	Percent
DUE	\$217.28	\$235.65	\$246.65	\$29.37	13.5%	\$11.00	4.7%
Core R&D Programs¹	147.59	127.76	146.76	-0.83	-0.6%	19.00	14.9%
Core Launch:STEM Learning Environments ²	-	-	5.00	5.00	N/A	5.00	N/A
Advanced Technological Education (ATE)	64.35	64.00	64.00	-0.35	-0.5%	-	0.0%
STEM Talent Expansion Program (STEP)	32.23	24.30	16.30	-15.93	-49.4%	-8.00	-32.9%
Transforming Undergraduate Education in STEM (TUES)	41.25	39.46	61.46	20.21	49.0%	22.00	55.8%
National STEM Education Distributed Learning (NSDL)	9.75	-	-	-9.75	-100.0%	-	N/A
Expeditions¹	-	8.00	20.00	20.00	N/A	12.00	150.0%
Widening Implementation and Demonstration of Evidence-based Reforms (WIDER)/E ² : Transforming Undergraduate STEM Learning ³	-	8.00	20.00	20.00	N/A	12.00	150.0%
Leadership Programs¹	69.69	99.89	79.89	10.20	14.6%	-20.00	-20.0%
Robert Noyce Scholarship Program (NOYCE)	54.90	54.89	54.89	-0.01	0.0%	-	0.0%
Federal Cyber Service: Scholarship for Service/Cybercorps (SFS)	14.79	45.00	25.00	10.21	69.0%	-20.00	-44.4%
DGE	\$176.58	\$173.29	\$184.82	\$8.24	4.7%	\$11.53	6.7%
Core R&D Programs¹	29.70	31.20	28.16	-1.54	-5.2%	-3.04	-9.7%
Core Launch: STEM Professional Workforce Preparation ²	-	-	5.00	5.00	N/A	5.00	N/A
NSF Innovation Corps (I-Corps) ⁴	0.10	-	0.30	0.20	196.8%	0.30	N/A
Integrative Graduate Education and Research Traineeship Program (IGERT)	29.60	31.20	22.86	-6.74	-22.8%	-8.34	-26.7%
Expeditions¹	5.43	5.50	8.17	2.74	50.4%	2.67	48.5%
Climate Change Education (CCE)/E ² : Learning and Understanding Sustainability ⁵	5.43	5.50	4.76	-0.67	-12.4%	-0.74	-13.5%
Integrative Graduate Education and Research Traineeship Program (IGERT)/E ² : Learning and Understanding Sustainability	-	-	3.41	3.41	N/A	3.41	N/A
Leadership Programs¹	141.44	136.59	148.49	7.05	5.0%	11.90	8.7%
Graduate Research Fellowship (GRF)	93.27	109.64	121.49	28.22	30.3%	11.85	10.8%
Graduate STEM Fellows in K-12 Education (GK-12)	48.18	26.95	27.00	-21.18	-44.0%	0.05	0.2%
HRD	\$144.71	\$129.63	\$134.63	-\$10.08	-7.0%	\$5.00	3.9%
Core R&D Programs¹	139.53	124.48	129.48	-10.05	-7.2%	5.00	4.0%
Core Launch: Broadening Participation and Institutional Capacity in STEM ²	-	-	5.00	5.00	N/A	5.00	N/A
ADVANCE	1.52	1.53	1.53	0.01	0.8%	-	0.0%
Alliances for Graduate Education and the Profession (AGEP) ⁶	16.69	7.84	7.84	-8.85	-53.0%	-	0.0%
Centers for Research Excellence in Science and Technology (CREST)/E ² : Learning and Understanding Sustainability	30.43	24.24	24.24	-6.19	-20.3%	-	0.0%
Historically Black Colleges and Universities Undergraduate Program (HBCU-UP)	31.93	31.94	31.94	0.01	0.0%	-	0.0%
Louis Stokes Alliances for Minority Participation (LSAMP)	45.63	45.62	45.62	-0.01	0.0%	-	0.0%
Tribal Colleges & Universities Program (TCUP)	13.33	13.31	13.31	-0.02	-0.1%	-	0.0%
Transforming Broadening Participation through STEM (TBPS)	-	-	-	-	N/A	-	N/A
Leadership Programs¹	5.18	5.15	5.15	-0.03	-0.6%	-	0.0%
Excellence Awards in Science and Engineering (EASE) ⁷	5.18	5.15	5.15	-0.03	-0.6%	-	0.0%
DRL	\$322.47	\$290.43	\$309.51	-\$12.96	-4.0%	\$19.08	6.6%
Core R&D Programs¹	303.87	272.43	281.23	-22.64	-7.4%	8.80	3.2%
Core Launch: STEM Learning ²	-	-	5.00	5.00	N/A	5.00	N/A
Discovery Research K-12 (DR-K12)	120.00	99.23	109.90	-10.10	-8.4%	10.67	10.8%
Advancing Informal STEM Learning (AISL) ⁸	64.21	61.40	47.82	-16.39	-25.5%	-13.58	-22.1%
Math and Science Partnership (MSP) ⁹	57.12	57.08	57.08	-0.04	-0.1%	-	0.0%
Research on Education and Learning (REAL) ^{6,9}	62.53	54.72	59.43	-3.10	-5.0%	4.71	8.6%
INSPIRE ¹⁰	-	-	2.00	2.00	N/A	2.00	N/A
Teacher Learning for the Future (TLF)	-	-	-	-	N/A	-	N/A
Expeditions¹	-	-	4.33	4.33	N/A	4.33	N/A
DR-K12/E ² : Cyberlearning, Data, and Observations for STEM Education	-	-	4.33	4.33	N/A	4.33	N/A
Leadership Programs¹	18.60	18.00	23.95	5.35	28.8%	5.95	33.1%
Project and Program Evaluation (PPE)	18.60	18.00	23.95	5.35	28.8%	5.95	33.1%
EHR	\$861.04	\$829.00	\$875.61	\$14.57	1.7%	\$46.61	5.6%

Totals may not add due to rounding.

¹ In FY 2013, EHR programs in all divisions are aligned with the new budget activity lines of 'CORE R&D Programs', 'Expeditions', and 'Leadership Programs'. The existing budget activity lines in DUE ('Curriculum, Laboratory and Instructional Development', 'Workforce Development', and 'Teacher Education') and HRD ('Broadening Participation at the Core' and 'Research and Education Infrastructure') are dissolved.

² 'Core Launch' is a new program proposed for FY 2013. It is funded by all of EHR's divisions with each division heading a different thematic area.

³ Widening Implementation and Demonstration of Evidence-based Reforms (WIDER) and Teacher Learning for the Future (TLF) are new programs proposed for FY 2012.

⁴ NSF Innovation Corps (I-Corps) is a new NSF-wide program developed in FY 2011.

⁵ In FY 2013, the Climate Change Education (CCE) program moves from DUE to DGE.

⁶ In FY 2013, new program names are proposed: Advancing Informal STEM Learning (AISL), for Informal Science Education (ISE); Research on Education and Learning (REAL), for Research & Evaluation on Education in S&E (REESE); and Alliances for Graduate Education and the Profession (AGEP), for Alliances for Graduate Education and the Professoriate (AGEP).

⁷ In FY 2013, the Excellence Awards in Science and Engineering (EASE) program moves from DUE to HRD.

⁸ In FY 2013, the Math Science Partnership (MSP) program moves from DUE to DRL.

⁹ Funding for Research and Evaluation on Education in Science & Engineering (REESE) is restated for FY 2011 to include Research on Gender in Science & Engineering (GSE) and Research in Disabilities Education (RDE) as proposed for FY 2012.

¹⁰ INSPIRE is a new NSF-wide program proposed for FY 2012.

**National Science Foundation
Research Infrastructure (RI) Funding, by Account, Activity and Subactivity
FY 2013 Request to Congress**

(Dollars in Millions)

	FY 2011		FY 2012		FY 2013		FY 2013 Request RI Change over		FY 2013 Request RI Change over	
	FY 2011	FY 2011	FY 2012	FY 2012	FY 2013	FY 2013	FY 2011	FY 2011	FY 2012	FY 2012
	Actual	RI Funding	Estimate	RI Funding	Request	RI Funding	Actual RI	Actual RI	Estimate RI	Estimate RI
							Amount	Percent	Amount	Percent
BIO	\$712.27	\$98.73	\$712.38	\$128.82	\$733.86	\$140.63	\$41.90	42.4%	\$11.81	9.2%
CISE	636.06	31.58	653.59	34.60	709.72	41.60	10.02	31.7%	7.00	20.2%
ENG	763.33	31.04	826.17	31.33	876.33	31.33	0.29	0.9%	-	-
GEO	885.32	380.27	885.27	355.25	906.44	341.18	-39.09	-10.3%	-14.07	-4.0%
MPS	1,312.42	331.58	1,308.94	292.71	1,345.18	306.67	-24.91	-7.5%	13.96	4.8%
SBE	247.33	42.80	254.25	43.49	259.55	42.15	-0.65	-1.5%	-1.34	-3.1%
OCI ¹	300.75	221.35	211.64	116.56	218.27	117.00	-104.35	-47.1%	0.44	0.4%
OISE	49.03	0.10	49.85	0.10	51.28	0.10	-	-	-	-
OPP ²	440.70	307.25	435.87	305.61	449.74	307.88	0.63	0.2%	2.27	0.7%
IA	259.60	93.01	349.59	93.14	431.52	93.14	0.13	0.1%	-	-
U.S. Arctic Research Commission	1.58	-	1.45	-	1.39	-	-	N/A	-	N/A
Research & Related Activities	\$5,608.38	\$1,537.71	\$5,689.00	\$1,401.61	\$5,983.28	\$1,421.68	-\$116.03	-7.5%	\$20.07	1.4%
Education & Human Resources	\$861.04	\$9.45	\$829.00	-	\$875.61	-	-\$9.45	-100.0%	-	N/A
Major Research Equipment & Facilities Construction	\$125.37	\$125.37	\$197.06	\$197.06	\$196.17	\$196.17	\$70.80	56.5%	-\$0.88	-0.4%
Agency Operations & Award Management	\$299.29	-	\$299.40	-	\$299.40	-	-	N/A	-	N/A
National Science Board	\$4.47	-	\$4.44	-	\$4.44	-	-	N/A	-	N/A
Office of Inspector General	\$14.00	-	\$14.20	-	\$14.20	-	-	N/A	-	N/A
OIG FY 2011 ARRA Obligations	\$0.08	-	-	-	-	-	-	N/A	-	N/A
Total, National Science Foundation	\$6,912.63	\$1,672.54	\$7,033.10	\$1,598.67	\$7,373.10	\$1,617.85	-\$54.69	-3.3%	\$19.18	1.2%

Totals may not add due to rounding.

¹ FY 2011 Actual for OCI includes \$90.50 million in funds that were obligated in FY 2010, deobligated in FY 2011, and then obligated in FY 2011 to other projects in the OCI portfolio.

² Funding for OPP for FY 2011 excludes a one-time appropriation transfer of \$53.892 million, \$54.0 million less the 0.2% rescission, to U.S. Coast Guard per P.L. 112-10.

**National Science Foundation
Research Infrastructure Summary
FY 2013 Request to Congress**

(Dollars in Millions)

	FY 2011 Actual	FY 2012 Estimate	FY 2013 Request	FY 2013 Request change over:			
				FY 2011 Actual		FY 2012 Estimate	
				Amount	Percent	Amount	Percent
Facilities	\$843.66	\$910.91	\$927.76	\$84.10	10.0%	\$16.86	1.9%
Academic Research Fleet	81.67	78.75	73.00	-8.67	-10.6%	-5.75	-7.3%
Regional Class Research Vessels ¹	-	2.00	1.00	1.00	N/A	-1.00	-50.0%
RHOV Construction (R/V Alvin Replacement)	8.00	2.40	-	-8.00	-100.0%	-2.40	-100.0%
R/V Langseth Construction (R/V Ewing Replacement)	-	-	-	-	N/A	-	N/A
Ship Operations and Upgrades	73.67	74.35	72.00	-1.67	-2.3%	-2.35	-3.2%
Cornell High Energy Synchrotron Source (CHESS) \ Cornell Electron Storage Ring (CESR)	14.12	19.67	20.00	5.88	41.7%	0.33	1.7%
EarthScope: USArray, SAFOD, PBO	26.02	25.05	26.17	0.15	0.6%	1.12	4.5%
Gemini Observatory	19.50	22.07	18.15	-1.35	-6.9%	-3.92	-17.8%
IceCube Neutrino Observatory (IceCube)	6.90	6.90	6.90	-	-	-	-
Incorporated Research Institutions for Seismology	12.37	12.36	11.25	-1.12	-9.1%	-1.11	-9.0%
Integrated Ocean Drilling Program	53.35	44.40	38.90	-14.45	-27.1%	-5.50	-12.4%
Large Hadron Collider	18.00	18.00	18.00	-	-	-	-
Laser Interferometer Gravitational Wave Observatory	30.30	30.40	30.50	0.20	0.7%	0.10	0.3%
Arecibo Observatory (was National Astronomy & Ionosphere Center)	9.26	8.70	8.20	-1.06	-11.5%	-0.50	-5.7%
National High Magnetic Field Laboratory	32.68	25.80	31.75	-0.92	-2.8%	5.95	23.1%
National Nanotechnology Infrastructure Network (NNIN)	16.36	15.86	15.36	-1.00	-6.1%	-0.50	-3.2%
National Solar Observatory	9.10	9.10	8.00	-1.10	-12.1%	-1.10	-12.1%
National Superconducting Cyclotron Laboratory	21.50	21.50	21.50	-	-	-	-
Network for Earthquake Engineering Simulation	20.10	20.50	20.50	0.40	2.0%	-	-
Other Facilities ²	4.86	2.52	2.66	-2.20	-45.2%	0.14	5.6%
Polar Facilities and Logistics ³	297.54	295.79	297.51	-0.03	0.0%	1.72	0.6%
Other Facilities Investments					N/A		N/A
Major Research Equipment & Facilities Construction ⁴	152.53	248.79	271.66	119.13	78.1%	22.88	9.2%
Pre-construction Planning ^{1,5}	17.50	4.75	7.75	-9.75	-55.7%	3.00	63.2%
Federally Funded R&D Centers	\$198.29	\$198.99	\$194.85	-\$3.441	-1.7%	-\$4.14	-2.1%
National Center for Atmospheric Research	98.10	98.60	92.29	-5.81	-5.9%	-6.31	-6.4%
National Optical Astronomy Observatories	29.50	25.50	25.50	-4.00	-13.6%	-	-
National Radio Astronomy Observatories ⁶	67.65	71.75	73.92	6.27	9.3%	2.17	3.0%
Science and Technology Policy Institute	3.04	3.14	3.14	0.10	3.3%	-	-
Other Research Instrumentation and Infrastructure	\$630.90	\$488.77	\$495.24	-\$135.66	-21.5%	\$6.47	1.3%
Major Research Instrumentation	89.99	90.00	90.00	0.01	0.0%	-	-
National Stem Education Distributed Learning	9.75	-	-	-9.75	-100.0%	-	N/A
Networking & Computational Resources Infrastructure & Services	221.35	116.56	117.00	-104.35	-47.1%	0.44	0.4%
Polar Environment, Health & Safety	6.26	6.37	6.92	0.66	10.5%	0.55	8.6%
Research Resources ⁷	268.64	240.24	247.06	-21.58	-8.0%	6.82	2.8%
National Center for Science & Engineering Statistics	29.46	29.65	29.31	-0.15	-0.5%	-0.34	-1.1%
NCSES Science of Science & Innovation Policy Activities	5.45	5.95	4.95	-0.50	-9.2%	-1.00	-16.8%
Subtotal, Research Infrastructure Support	\$1,672.85	\$1,598.67	\$1,617.85	-\$55.00	-3.3%	\$19.18	1.2%
Research Infrastructure Stewardship Offset	-\$0.31	-	-	\$0.31	-100.0%	-	N/A
RESEARCH INFRASTRUCTURE TOTAL	\$1,672.54	\$1,598.67	\$1,617.85	-\$54.69	-3.3%	\$19.18	1.2%

Totals may not add due to rounding.

¹ Regional Class Research Vessels are a Pre-construction Planning project for potential MREFC funding. This funding is shown here (Academic Research Fleet) and is not included in the Pre-construction Planning line.

² Other Facilities includes support for other physics and materials research facilities.

³ Polar Facilities and Logistics funding includes support for the operations and maintenance of the South Pole Station Modernization (SPSM) project. Polar Facilities and Logistics excludes a one-time appropriation transfer of \$53.892 million, \$54.0 million less 0.2% rescission, to U.S. Coast Guard per P.L. 112-10.

⁴ Funding levels for MREFC Projects in this table include support for: a) concept and development associated with ongoing and requested MREFC projects provided through the R&RA account, specifically for NEON; b) initial support for operations and maintenance provided through the R&RA account (except for ALMA, which is included in the funding for NRAO); and c) implementation support provided through the MREFC account.

⁵ Preconstruction planning includes funding for potential next generation multi-user facilities. Not included in this line are Regional Class Research Vessels, shown here under the Academic Research Fleet.

⁶ Funding for the National Radio Astronomy Observatory (NRAO) includes operation and maintenance support for the Atacama Large Millimeter Array (ALMA). Construction funding for ALMA is included in the MREFC projects line above.

⁷ Funding for Research Resources includes support for the operation and maintenance of minor facilities, infrastructure and instrumentation, field stations, museum collections, etc.