NATIONAL SCIENCE FOUNDATION
PROGRAMS TO BROADEN PARTICIPATION
FY 2018 Request to Congress

(Dollars in Millions)

Group/Program	FY 2016 Actual	FY 2017 (TBD)	FY 2018 Request	FY 2018 Request Change Over FY 2016 Actual	
				Amount	Percent
Total, NSF Broadening Participation Programs	**$975.09**	**-**	**$752.38**	**-$222.71**	**-22.8%**

NSF has taken a variety of approaches to broaden participation across its many programs. While broadening participation is included in the NSF review criteria, some program announcements and solicitations go beyond the standard criteria. They range from encouraging language to specific requirements. Investments range from capacity building, research centers, partnerships, and alliances to the use of co-funding or supplements to existing awards in the core research programs.

NSF's broadening participation portfolio can be divided into three categories: (1) Focused, (2) Emphases, and (3) Geographic Diversity. The following sections define each of these categories and provide a list of the programs and activities with their respective funding levels that comprise each.

Focused Programs

Focused Programs have broadening participation as an explicit goal of the program and are included at 100 percent of their funding.

(Dollars in Millions)

Group/Program	Amount of Funding Captured	FY 2016 Actual	FY 2017 (TBD)	FY 2018 Request	FY 2018 Request Change Over FY 2016 Actual	
					Amount	Percent
ADVANCE	100%	$14.86	-	$4.90	-$9.96	-67.0%
Alliances for Graduate Education & the Professoriate (AGEP)	100%	8.00	-	7.00	-1.00	-12.5%
AGEP Graduate Research Supplements (AGEP-GRS)	100%	1.99	-	2.84	0.85	42.7%
Broadening Participation in Biology Fellowships	100%	3.45	-	2.50	-0.95	-27.5%
Broadening Participation in Engineering (BPE)	100%	10.00	-	7.00	-3.00	-30.0%
Career-Life Balance (CLB)	100%	0.55	-	0.47	-0.08	-14.5%
Centers of Research Excellence in Science & Technology (CREST)	100%	24.04	-	24.00	-0.04	-0.2%
Excellence Awards in Science & Engineering (EASE)[1]	100%	5.59	-	3.82	-1.77	-31.7%
Historically Black Colleges & Universities Undergraduate Program (HBCU-UP)	100%	35.01	-	35.00	-0.01	-0.0%
Inclusion across the Nation of Communities of Learners of Underrepresented Discoverers in Engineering and Science (NSF INCLUDES)	100%	13.97	-	14.88	0.91	6.5%
Louis Stokes Alliances for Minority Participation (LSAMP)	100%	46.01	-	40.67	-5.34	-11.6%
Partnerships for Research & Education in Materials (PREM)	100%	6.38	-	6.30	-0.08	-1.3%
Partnerships in Astronomy & Astrophysics Research Education (PAARE)	100%	1.50	-	1.00	-0.50	-33.3%
SBE Postdoctoral Research Fellowships-Broadening Participation	100%	1.32	-	1.50	0.18	13.9%
SBE Science of Broadening Participation	100%	1.50	-	1.50	-	-
Tribal Colleges & Universities Program (TCUP)	100%	14.01	-	13.00	-1.01	-7.2%
Subtotal, Focused Programs		**$188.17**	**-**	**$166.38**	**-$21.79**	**-11.6%**

[1] The Excellence Awards in Science and Engineering (EASE) program is comprised of both Presidential Awards for Excellence in Science, Math and Engineering Mentoring (PAESMEM) and Presidential Awards for Excellence in Mathematics and Science Teaching (PAEMST).

Emphasis Programs

Emphasis Programs have broadening participation as one of several emphases but broadening participation is not an explicit goal of the program. These programs are included at a percentage of their funding level. The percentage used equals the 3-year average percentage of the programs' award portfolio that meets one the following criteria where an award:

- Was to a Minority Serving Institution (MSI);
- Had at least 50 percent of its principal investigators from an underrepresented group; or
- Had at least 50 percent of the students or postdocs supported by the grant reporting themselves as members of an underrepresented group on project reports.

(Dollars in Millions)

Group/Program	Amount of Funding Captured	FY 2016 Actual	FY 2017 (TBD)	FY 2018 Request	FY 2018 Request Change Over FY 2016 Actual	
					Amount	Percent
Advancing Informal STEM Learning (AISL)	53%	$33.12	-	$33.13	$0.00	0.0%
Disability and Rehabilitation Engineering (DARE)[1]	55%	2.67	-	2.20	-0.47	-17.7%
Discovery Research PreK-12 (DR-K12)	62%	52.26	-	51.30	-0.97	-1.8%
Engineering Research Centers (ERC)	63%	35.53	-	36.23	0.70	2.0%
Graduate Research Fellowship (GRF)	63%	209.38	-	155.32	-54.06	-25.8%
Improving Undergraduate STEM Education (IUSE)	56%	58.67	-	54.04	-4.63	-7.9%
Innovative Technology Experiences for Students and Teachers (ITEST)[2]	51%	22.62	-	12.75	-9.87	-43.6%
International Research Experiences for Students (IRES)	53%	3.14	-	5.93	2.78	88.6%
Robert Noyce Teacher Scholarship Program (NOYCE)	61%	39.34	-	32.87	-6.47	-16.4%
NSF Scholarships in STEM (S-STEM)[2]	59%	82.92	-	44.25	-38.67	-46.6%
Research Experiences for Undergraduates (REU) - Sites and Supplements	55%	53.75	-	41.09	-12.66	-23.5%
STEM + Computing Partnerships (STEM+C Partnerships)	52%	33.47	-	16.90	-16.57	-49.5%
Subtotal, Emphasis Programs		**$626.88**	**-**	**$486.00**	**-$140.89**	**-22.5%**

[1] Program formally known as General and Age Related Disabilities Engineering (GARDE).

[2] Amounts for Innovative Technology Experiences for Students and Teachers (ITEST) and NSF Scholarships in Science, Technology, Engineering, and Mathematics (S-STEM) are H-1B Non-Immigrant Petitioner mandatory funds.

Geographic Diversity Programs

Geographic Diversity Programs, EPSCoR, has geographic diversity as an explicit goal of the program and is included at 100 percent of its funding.

(Dollars in Millions)

Group/Program	Amount of Funding Captured	FY 2016 Actual	FY 2017 (TBD)	FY 2018 Request	FY 2018 Request Change Over FY 2016 Actual	
					Amount	Percent
EPSCoR	100%	$160.03	-	$100.00	-$60.03	-37.5%
Subtotal, Geographic Diversity Program		**$160.03**	**-**	**$100.00**	**-$60.03**	**-37.5%**