

**NATIONAL SCIENCE FOUNDATION  
PROGRAMS TO BROADEN PARTICIPATION  
FY 2022 BUDGET REQUEST TO CONGRESS**

(Dollars in Millions)

	Amount of Funding Captured	FY 2020	FY 2021	FY 2022	Change over	
		Actual	Estimate	Request	FY 2021 Estimate Amount	Percent
<b>Total, Broadening Participation Programs</b>		\$1,105.15	\$1,212.21	\$1,407.92	\$195.71	16.1%

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.

Summary Tables

**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)

	Amount of Funding Captured	FY 2020 Actual	FY 2021 Estimate	FY 2022 Request	Change over FY 2021 Estimate	
					Amount	Percent
<b>Focused Programs</b>						
ADVANCE	100%	18.00	18.00	20.50	2.50	13.9%
Alliances for Graduate Education & the Professoriate (AGEP)	100%	8.00	8.00	12.00	4.00	50.0%
AGEP Graduate Research Supplements (AGEP-GRS)	100%	3.17	6.64	6.64	-	-
Broadening Participation in Biology Fellowships	100%	5.00	3.50	5.00	1.50	42.9%
Broadening Participation in Engineering (BPE)	100%	4.72	7.50	9.00	1.50	20.0%
Career-Life Balance (CLB) <sup>1</sup>	100%	0.69	0.28	0.28	-	-
Centers of Research Excellence in Science & Technology (CREST)	100%	24.00	24.00	39.00	15.00	62.5%
CISE Education and Workforce	100%	11.00	12.75	12.75	-	-
CISE-MSI Research Expansion Program	100%	-	-	7.00	7.00	N/A
Coastlines and People (CoPe)	100%	4.41	18.00	28.00	10.00	55.6%
Disability and Rehabilitation Engineering (DARE)	100%	5.07	5.10	6.00	0.90	17.6%
Excellence Awards in Science & Engineering (EASE) <sup>2</sup>	100%	7.33	5.00	7.64	2.64	52.8%
Historically Black Colleges & Universities Undergraduate Program (HBCU-UP)	100%	35.00	36.50	46.50	10.00	27.4%
HBCU Excellence in Research (HBCU-EiR)	100%	18.05	20.50	33.96	13.46	65.7%
Improving Undergraduate STEM Education (IUSE): Hispanic Serving Institutions (HSI) program	100%	45.00	46.50	56.50	10.00	21.5%
Inclusion across the Nation of Communities of Learners of Underrepresented Discoverers in Engineering and Science (NSF INCLUDES)	100%	20.75	20.00	46.50	26.50	132.5%
Louis Stokes Alliances for Minority Participation (LSAMP)	100%	47.49	49.50	69.50	20.00	40.4%
Mathematical and Physical Sciences Ascending Postdoctoral Research Fellowships (MPS-Ascend)	100%	-	10.00	10.00	-	-
NSF Scholarships in STEM (S-STEM) <sup>3</sup>	100%	79.91	132.75	121.85	-10.90	-8.2%
Partnerships for Research & Education in Materials (PREM)	100%	6.38	9.00	9.00	-	-
Partnerships in Astronomy & Astrophysics Res. Ed. (PAARE)	100%	-	-	0.50	0.50	N/A
SBE Build and Broaden	100%	1.37	8.00	8.00	-	-
SBE Postdoctoral Research Fellowships-Broadening Participation (SPRF-BP)	100%	1.49	3.00	3.00	-	-
Science of Broadening Participation	100%	1.73	1.50	1.50	-	-
Tribal Colleges & Universities Program (TCUP)	100%	15.00	16.50	21.00	4.50	27.3%
<b>Subtotal, Focused Programs</b>		<b>\$363.56</b>	<b>\$462.52</b>	<b>\$581.62</b>	<b>\$119.10</b>	<b>25.8%</b>

<sup>1</sup> NSF continues to support the Career-Life Balance (CLB) Initiative through supplemental funding to active NSF awards. In general, CLB funding will be reported annually as part of NSF's actual obligations.

<sup>2</sup> 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).

<sup>3</sup> NSF Scholarships in Science, Technology, Engineering, and Mathematics (S-STEM) and Innovative Technology Experiences for Students and Teachers (ITEST) are H1B Visa funded programs.

**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)

	Amount of Funding Captured	FY 2020 Actual	FY 2021 Estimate	FY 2022 Request	Change over FY 2021 Estimate Amount	Percent
<b>Emphasis Programs</b>						
Advancing Informal STEM Learning (AISL)	58%	36.24	36.25	40.60	4.35	12.0%
Computer Science for All (CSforAll)	62%	18.89	15.19	15.19	-	-
CyberTraining	51%	2.53	3.06	3.06	-	-
Discovery Research PreK-12 (DRK-12)	56%	53.20	53.20	53.20	-	-
EHR Core Research	62%	41.43	47.52	60.15	12.63	26.6%
Graduate Research Fellowship Program (GRFP)	67%	189.48	189.49	212.13	22.64	11.9%
Improving Undergraduate STEM Education (IUSE)	64%	70.11	71.36	69.50	-1.86	-2.6%
Innovative Technology Experiences for Students and Teachers (ITEST) <sup>3</sup>	74%	25.80	32.75	30.06	-2.69	-8.2%
International Research Experiences for Students (IRES)	54%	6.36	6.62	6.48	-0.14	-2.0%
Research Experiences for Teachers (RET) Sites in Engineering and Computer Science	72%	5.90	4.54	5.18	0.65	14.3%
Research Experiences for Undergraduates (REU) - Sites and Supplements	61%	60.17	50.19	51.57	1.38	2.7%
Robert Noyce Teacher Scholarship Program (NOYCE)	59%	41.16	39.53	39.53	-	-
<b>Subtotal, Emphasis Programs</b>		<b>\$551.27</b>	<b>\$549.69</b>	<b>\$586.66</b>	<b>\$36.97</b>	<b>6.7%</b>

<sup>3</sup> NSF Scholarships in Science, Technology, Engineering, and Mathematics (S-STEM) and Innovative Technology Experiences for Students and Teachers (ITEST) are H1B Visa funded programs.

**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)

	Amount of Funding Captured	FY 2020 Actual	FY 2021 Estimate	FY 2022 Request	Change over FY 2021 Estimate Amount	Percent
<b>Geographic Diversity Programs</b>						
EPSCoR	100%	190.32	200.00	239.64	39.64	19.8%
<b>Subtotal, Geographic Diversity Programs</b>		<b>\$190.32</b>	<b>\$200.00</b>	<b>\$239.64</b>	<b>\$39.64</b>	<b>19.8%</b>