

NSF PROGRAMS TO BROADEN PARTICIPATION

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.

(Dollars in Millions)

	FY 2022 Actuals ¹	Disaster Relief Supplemental			FY 2023 Estimate Total	FY 2024 Request REVISED	Change Over FY 2023 Base Total ²	
		FY 2023 Estimate Base	Base	CHIPS and Science			Amount	Percent
Total, Broadening Participation Programs³	\$1,374.24	\$1,453.82	\$141.44	\$72.07	\$1,667.33	\$1,843.16	\$247.90	15.5%

¹ FY 2022 Actual levels do not include funds provided by the American Rescue Plan supplemental appropriation.

² Captures both the FY 2023 Omnibus appropriation and the Disaster Relief Supplemental base.

³ Totals exclude H-1B Visa funded programs (S-STEM and ITEST).

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)

		FY 2022 Actuals ¹	FY 2023			FY 2023 Estimate Total	FY 2024 Request	Change Over	
			Estimate Base	Disaster Relief Supplemental Base	CHIPS and Science			FY 2023 Base Total ²	Amount
Focused Programs³									
ADVANCE	EDU	\$18.50	\$19.00	-	\$2.00	\$21.00	\$22.33	\$3.33	17.5%
Advancing Informal STEM Learning (AISL)	EDU	65.50	70.00	-	16.00	86.00	80.00	10.00	14.3%
Alliances for Graduate Education & the Professoriate (AGEP)	EDU	8.50	9.50	-	3.00	12.50	15.50	6.00	63.2%
AGEP Graduate Research Supplements (AGEP-GRS)	RRA	4.82	3.74	-	-	3.74	4.64	0.90	24.1%
Broadening Participation in Biology Fellowships	RRA	3.45	8.00	-	-	8.00	10.50	2.50	31.3%
Broadening Participation in Engineering (BPE)	RRA	6.00	7.50	-	-	7.50	9.00	1.50	20.0%
Career-Life Balance (CLB) ⁴	RRA	1.99	0.28	-	-	0.28	0.73	0.45	160.7%
Centers of Research Excellence in Science & Technology (CREST)	EDU	26.01	29.00	-	3.00	32.00	41.00	12.00	41.4%
CISE Education and Workforce	RRA	15.65	14.75	-	-	14.75	16.75	2.00	13.6%
CISE Graduate Fellowships (CSGrad4US)	RRA	-	8.50	-	-	8.50	12.50	4.00	47.1%
CISE-MSI Research Expansion Program	RRA	3.07	7.00	-	-	7.00	12.00	5.00	71.4%
Disability and Rehabilitation Engineering (DARE)	RRA	5.66	5.10	-	-	5.10	6.00	0.90	17.6%
Eddie Bernice Johnson INCLUDES Initiative (INCLUDES Initiative)	EDU	23.01	30.00	-	5.00	35.00	50.50	20.50	68.3%
Excellence Awards in Science & Engineering (EASE) ⁵	EDU	4.11	7.40	-	-	7.40	8.00	0.60	8.1%
ExpandAI	RRA	-	7.00	-	-	7.00	10.00	3.00	42.9%
ExpandQISE	RRA	-	18.00	-	-	18.00	10.00	-8.00	-44.4%
Growing Resch Access for Nation'ly Transformative Equity & Diversity (GRANTED)	RRA	-	34.18	10.82	-	45.00	50.00	5.00	11.1%
HBCU Excellence in Research (HBCU-EIR)	RRA	18.78	10.00	15.00	-	25.00	37.93	12.93	51.7%
Historically Black Colleges & Universities Undergrad Prog (HBCU-UP)	EDU	38.01	43.00	-	3.00	46.00	48.50	5.50	12.8%
IUSE: Hispanic Serving Institutions (HSI) Program	EDU	48.50	53.50	-	2.00	55.50	60.50	7.00	13.1%
Louis Stokes Alliances for Minority Participation (LSAMP)	EDU	51.52	55.50	-	-	55.50	70.50	15.00	27.0%
MPS Ascending Postdoctoral Research Fellowships (MPS-Acend)	RRA	0.72	10.00	-	-	10.00	30.00	20.00	200.0%
MPS Partnerships for Research & Education	RRA	9.73	12.50	-	-	12.50	32.50	20.00	160.0%
NSF Scholarships in STEM (S-STEM)	EDU	[243.70]	[144.41]	-	-	[144.41]	[149.13]	[4.72]	[3.3%]
Resch and Mentoring for Postbaccalaureates in Biological Sciences (RaMP)	RRA	32.47	30.00	-	-	30.00	49.10	19.10	63.7%
SBE Build and Broaden	RRA	8.01	8.00	-	-	8.00	18.06	10.06	125.8%
SBE Postdoctoral Research Fellowships-Broadening Participation	RRA	1.49	1.50	1.50	-	3.00	6.00	3.00	100.0%
Science of Broadening Participation	RRA	1.50	1.50	-	-	1.50	2.73	1.23	82.0%
Tribal Colleges & Universities Program (TCUP)	EDU	17.50	20.00	-	6.00	26.00	23.00	3.00	15.0%
Subtotal, Focused Programs		\$414.50	\$524.45	\$27.32	\$40.00	\$591.77	\$738.27	\$186.50	33.8%

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² Captures both the FY 2023 Omnibus appropriation and the Disaster Relief Supplemental base.

³ Totals exclude H-1B Visa funded programs (S-STEM and ITEST).

⁴ NSF continues to support the Career-Life Balance Initiative through supplemental funding to active NSF awards. In general, CLB funding will be reported annually as part of NSF's actual obligations.

⁵ EASE comprises both Presidential Awards for Excellence in Science, Math, and Engineering Mentoring and Presidential Awards for Excellence in Mathematics and Science Teaching.

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)

	FY 2022 Actuals ¹	FY 2023 Estimate Base	Disaster Relief Supplemental		FY 2023 Estimate Total	FY 2024 Request REVISED	Change Over FY 2023 Base Total ²		
			Base	CHIPS and Science			Amount	Percent	
Emphasis Programs³									
Computer Science for All (CSforAll)	61%	\$14.79	\$13.15	\$1.83	-	\$14.98	\$14.98	-	-
CyberTraining	59%	11.42	12.34	-	-	12.34	12.34	-	-
Discovery Research PreK-12 (DRK-12)	68%	67.41	68.85	-	7.46	76.31	68.10	-0.75	-1.1%
EDU Core Research	72%	58.14	59.60	-	-	59.60	71.84	12.24	20.5%
Faculty Early Career Development Program (CAREER)	55%	220.55	234.24	-	-	234.24	207.80	-26.44	-11.3%
Graduate Research Fellowship Program (GRFP)	68%	196.34	155.71	62.28	-	217.99	257.48	39.48	18.1%
H-1B: Innovative Tech Experiences for Students & Teachers (ITEST)	72%	[25.15]	[34.79]	-	-	[34.79]	[35.94]	[-6.08]	[17.5%]
Improving Undergraduate STEM Education (IUSE)	75%	71.97	77.05	-	24.01	101.07	80.91	3.85	5.0%
International Research Experiences for Students (IRES)	58%	4.43	7.02	-	-	7.02	7.02	-	-
Resch Experiences for Teachers (RET) Sites in BIO, CISE, ENG	72%	9.21	5.82	-	-	5.82	9.50	3.68	63.2%
Resch Experiences for Undergrads (REU) - Sites and Supplements	63%	50.43	50.00	-	-	50.00	53.07	3.07	6.1%
Robert Noyce Teacher Scholarship Program (NOYCE)	60%	39.99	40.58	-	0.60	41.18	41.18	0.60	1.5%
Subtotal, Emphasis Programs		\$744.68	\$724.37	\$64.12	\$32.07	\$820.56	\$824.21	\$35.72	4.5%

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² Captures both the FY 2023 Omnibus appropriation and the Disaster Relief Supplemental base.

³ Totals exclude H-1B Visa funded programs (S-STEM and ITEST).

Summary Tables

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)

	FY 2022 Actuals ¹	Disaster Relief Supplemental			FY 2023 Estimate Total	FY 2024 Request	Change Over FY 2023 Base Total ²	
		FY 2023 Estimate Base	Base	CHIPS and Science			Amount	Percent
Geographic Diversity Programs³								
EPSCoR RRA	\$215.06	\$205.00	\$50.00	-	\$255.00	\$280.68	\$25.68	10.1%
Subtotal, Geographic Diversity Programs	\$215.06	\$205.00	\$50.00	-	\$255.00	\$280.68	\$25.68	10.1%

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