

**NATIONAL SCIENCE FOUNDATION
NSTC CROSS-CUTS SUMMARY
FY 2022 BUDGET REQUEST TO CONGRESS
(Dollars in Millions)**

National Nanotechnology Initiative (NNI)							
	FY 2020 Actual	FY 2021 Estimate	FY 2022 Request	FY 2022 Request change over:			
				FY 2020 Actual		FY 2021 Estimate	
				Amount	Percent	Amount	Percent
BIO	\$42.50	\$39.95	\$39.95	-\$2.55	-6.0%	-	-
CISE	14.36	14.05	14.05	-0.31	-2.2%	-	-
ENG	221.52	190.95	219.99	-1.53	-0.7%	29.04	15.2%
MPS	330.70	183.50	183.50	-147.20	-44.5%	-	-
SBE	0.40	0.40	0.40	-	-	-	-
TIP ¹	11.67	10.05	10.05	-1.62	-13.9%	-	-
OISE	0.10	0.10	0.10	-	-	-	-
R&RA	\$621.25	\$439.00	\$468.04	-\$153.21	-24.7%	\$29.04	6.6%
EHR	\$13.74	\$2.50	\$2.50	-\$11.24	-81.8%	-	-
NSF Total	\$634.99	\$441.50	\$470.54	-\$164.45	-25.9%	\$29.04	6.6%

¹ FY 2020 and FY 2021 funding for TIP is shown for comparability across fiscal years.

Networking & Information Technology R&D (NITRD)							
	FY 2020 Actual	FY 2021 Estimate	FY 2022 Request	FY 2022 Request change over:			
				FY 2020 Actual		FY 2021 Estimate	
				Amount	Percent	Amount	Percent
BIO	\$79.00	\$79.00	\$79.00	-	-	-	-
CISE	996.40	1,005.49	1,116.06	119.66	12.0%	110.57	11.0%
ENG	134.75	154.98	179.26	44.51	33.0%	24.28	15.7%
GEO	27.00	27.00	27.00	-	-	-	-
MPS	228.42	191.62	200.81	-27.61	-12.1%	9.19	4.8%
SBE	31.86	29.44	37.44	5.58	17.5%	8.00	27.2%
TIP ¹	73.76	76.11	398.11	324.35	439.7%	322.00	423.1%
IA	2.97	1.00	1.00	-1.97	-66.3%	-	-
R&RA	\$1,574.16	\$1,564.64	\$2,038.68	\$464.52	29.5%	\$474.04	30.3%
EHR	\$17.00	\$17.59	\$27.59	\$10.59	62.3%	\$10.00	56.9%
NSF Total	\$1,591.16	\$1,582.23	\$2,066.27	\$475.11	29.9%	\$484.04	30.6%

¹ FY 2020 and FY 2021 funding for TIP is shown for comparability across fiscal years.

Quantum Information Science (QIS)							
	FY 2020 Actual	FY 2021 Estimate	FY 2022 Request	FY 2022 Request change over:			
				FY 2020 Actual		FY 2021 Estimate	
				Amount	Percent	Amount	Percent
BIO	\$3.28	\$3.28	\$3.28	-	-	-	-
CISE	17.59	19.28	24.28	6.69	38.0%	5.00	25.9%
ENG	23.83	27.89	32.89	9.06	38.0%	5.00	17.9%
MPS	125.46	136.13	146.13	20.67	16.5%	10.00	7.3%
SBE	0.37	-	-	-0.37	-100.0%	-	N/A
TIP ¹	15.47	18.42	48.42	32.95	213.0%	30.00	162.9%
OISE	2.21	1.00	1.00	-1.21	-54.8%	-	-
IA	2.33	-	-	-2.33	-100.0%	-	N/A
R&RA	\$190.54	\$206.00	\$256.00	\$65.46	34.4%	\$50.00	24.3%
EHR	\$3.98	\$4.00	\$4.00	\$0.02	0.5%	-	-
NSF Total	\$194.52	\$210.00	\$260.00	\$65.48	33.7%	\$50.00	23.8%

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U.S. Global Change Research Program (USGCRP)							
	FY 2020 Actual	FY 2021 Estimate	FY 2022 Request	FY 2022 Request change over:			
				FY 2020 Actual		FY 2021 Estimate	
				Amount	Percent	Amount	Percent
BIO	\$90.00	\$145.00	\$212.15	\$122.15	135.7%	\$67.15	46.3%
GEO	294.17	329.23	481.70	187.53	63.7%	152.47	46.3%
MPS	-	10.00	14.63	14.63	N/A	4.63	46.3%
SBE	19.61	17.18	25.14	5.53	28.2%	7.96	46.3%
OPP	15.40	19.40	28.38	12.98	84.3%	8.98	46.3%
R&RA	\$419.18	\$520.81	\$762.00	\$342.82	81.8%	\$241.19	46.3%
EHR	-	-	-	-	N/A	-	N/A
NSF Total	\$419.18	\$520.81	\$762.00	\$342.82	81.8%	\$241.19	46.3%