

**NATIONAL SCIENCE FOUNDATION
NATIONAL NANOTECHNOLOGY INITIATIVE SUMMARY
FY 2021 BUDGET REQUEST TO CONGRESS**
(Dollars in Millions)

	BIO	CISE	ENG	MPS	SBE	OISE	RRA	EHR	Total
Total, FY 2019 Actual	\$42.50	\$13.50	\$218.35	\$243.34	\$0.40	\$0.10	\$518.19	\$2.53	\$520.72
NNI Grand Challenge (GC) and Signature Initiative (NSI) Total	-	1.98	99.35	49.59	-	-	150.92	-	150.92
<i>Sustainable Nanomanufacturing</i>	-	-	30.00	10.10	-	-	40.10	-	40.10
<i>Nanoelectronics for 2020 and Beyond</i>	-	-	21.00	30.82	-	-	51.82	-	51.82
<i>Nanotechnology Knowledge Infrastructure</i>	-	-	19.00	3.67	-	-	22.67	-	22.67
<i>Nanotechnology for Sensors and Sensors for Nanotechnology</i>	-	-	7.00	4.59	-	-	11.59	-	11.59
<i>Water Sustainability through Nanotechnology</i>	-	-	12.35	0.41	-	-	12.76	-	12.76
<i>Nanotechnology-Inspired Grand Challenge for Future Computing</i>	-	1.98	10.00	-	-	-	11.98	-	11.98
Environment, Health, and Safety	-	-	9.00	3.81	-	-	12.81	-	12.81
Foundational Research	40.00	6.98	52.00	172.39	-	-	271.37	-	271.37
Nanotechnology-Enabled Applications, Devices, and Systems	-	2.94	44.00	10.77	-	-	57.71	-	57.71
Research Infrastructure and Instrumentation	2.50	1.60	14.00	6.78	0.40	0.10	25.38	2.53	27.91
Delta from FY 2019 Actual to FY 2021 Request	-\$2.55	-\$0.42	-\$19.35	-\$44.34	-\$0.40	-\$0.10	-\$67.16	-\$0.03	-\$67.19
NNI Grand Challenge (GC) and Signature Initiative (NSI) Total	-	-0.06	-19.35	-31.09	-	-	-50.50	-	-50.50
<i>Sustainable Nanomanufacturing</i>	-	-	-	-8.10	-	-	-8.10	-	-8.10
<i>Nanoelectronics for 2020 and Beyond</i>	-	-	-	-17.82	-	-	-17.82	-	-17.82
<i>Nanotechnology Knowledge Infrastructure</i>	-	-	-19.00	-3.67	-	-	-22.67	-	-22.67
<i>Nanotechnology for Sensors and Sensors for Nanotechnology</i>	-	-	-	-3.09	-	-	-3.09	-	-3.09
<i>Water Sustainability through Nanotechnology</i>	-	-	-0.35	0.59	-	-	0.24	-	0.24
<i>Nanotechnology-Inspired Grand Challenge for Future Computing</i>	-	-0.06	-	1.00	-	-	0.94	-	0.94
Environment, Health, and Safety	-	-	-	-2.29	-	-	-2.29	-	-2.29
Foundational Research	-2.40	-0.22	-	-10.31	-	-	-12.93	-	-12.93
Nanotechnology-Enabled Applications, Devices, and Systems	-	-0.09	-	-6.87	-	-	-6.96	-	-6.96
Research Infrastructure and Instrumentation	-0.15	-0.05	-	6.22	-0.40	-0.10	5.52	-0.03	5.49
Total, FY 2021 Request	\$39.95	\$13.08	\$199.00	\$199.00	-	-	\$451.03	\$2.50	\$453.53
NNI Grand Challenge (GC) and Signature Initiative (NSI) Total	-	1.92	80.00	18.50	-	-	100.42	-	100.42
<i>Sustainable Nanomanufacturing</i>	-	-	30.00	2.00	-	-	32.00	-	32.00
<i>Nanoelectronics for 2020 and Beyond</i>	-	-	21.00	13.00	-	-	34.00	-	34.00
<i>Nanotechnology Knowledge Infrastructure</i>	-	-	-	-	-	-	-	-	-
<i>Nanotechnology for Sensors and Sensors for Nanotechnology</i>	-	-	7.00	1.50	-	-	8.50	-	8.50
<i>Water Sustainability through Nanotechnology</i>	-	-	12.00	1.00	-	-	13.00	-	13.00
<i>Nanotechnology-Inspired Grand Challenge for Future Computing</i>	-	1.92	10.00	1.00	-	-	12.92	-	12.92
Environment, Health, and Safety	-	-	9.00	1.52	-	-	10.52	-	10.52
Foundational Research	37.60	6.76	52.00	162.08	-	-	258.44	-	258.44
Nanotechnology-Enabled Applications, Devices, and Systems	-	2.85	44.00	3.90	-	-	50.75	-	50.75
Research Infrastructure and Instrumentation	2.35	1.55	14.00	13.00	-	-	30.90	2.50	33.40