

**NATIONAL SCIENCE FOUNDATION
RESEARCH INFRASTRUCTURE SUMMARY
FY 2021 BUDGET REQUEST TO CONGRESS**

(Dollars in Millions)

	FY 2019 Actual	FY 2020 (TBD)	FY 2021 Request	FY 2021 Request change over FY 2019 Actual	
				Amount	Percent
Operations and Maintenance of Major Facilities¹	\$1,024.38	-	\$867.42	-\$156.96	-15.3%
Major Research Facilities Construction Investments	\$286.95	-	\$163.75	-\$123.20	-42.9%
Construction, Acquisition, and Commissioning (MREFC) ²	284.95	-	163.75	-121.20	-42.5%
Design Stage Activities ³	2.00	-	-	-2.00	-100.0%
Mid-scale Research Infrastructure⁴	\$94.46	-	\$116.73	\$22.27	23.6%
MREFC Mid-scale Research Infrastructure ²	-	-	65.00	65.00	N/A
NSF-wide Mid-scale Research Infrastructure (R&RA)	60.04	-	32.67	-27.37	-45.6%
Directorate Midscale Research Infrastructure Programs	34.43	-	19.06	-15.37	-44.6%
Major Research Instrumentation (MRI)	\$75.11	-	\$61.70	-\$13.41	-17.9%
Polar Logistical and Infrastructure Support⁵	\$138.57	-	\$118.36	-\$20.21	-14.6%
CISE Networking and Computational Resources Infrastructure and Services (NCRIS)⁶	\$124.91	-	\$111.04	-\$13.87	-11.1%
Research Resources⁷	\$210.89	-	\$173.10	-\$37.79	-17.9%
BIO	63.98	-	58.76	-5.22	-8.2%
CISE	44.71	-	39.00	-5.71	-12.8%
GEO	63.11	-	48.22	-14.89	-23.6%
MPS	22.32	-	15.10	-7.22	-32.4%
SBE	8.82	-	7.98	-0.84	-9.5%
OPP	7.95	-	4.04	-3.91	-49.2%
Other Research Infrastructure	\$83.53	-	\$83.60	\$0.07	0.1%
Subtotal, Research Infrastructure Support	\$2,038.81	-	\$1,695.70	-\$343.11	-16.8%
Research Infrastructure Stewardship Offset	-1.74	-	-1.32	0.42	-24.1%
RESEARCH INFRASTRUCTURE TOTAL	\$2,037.07	-	\$1,694.38	-\$342.69	-16.8%

¹ For facility level detail on operations and maintenance, see the Major Multi-User Research Facilities table in the Facilities chapter.

² Construction, Acquisition, and Commissioning are for implementation support provided through the MREFC account. MREFC funding is included for Daniel K. Inouye Solar Telescope (DKIST, \$19.59 million); Regional Class Research Vessels (RCRV, \$108.12 million); and National Ecological Observatory Network (NEON, \$70,000) in FY 2019; and Antarctic Infrastructure Modernization for Science (AIMS, \$103.70 million in FY 2019 and \$90.0 million in FY 2021); Vera C. Rubin Observatory (\$53.48 million in FY 2019 and \$40.75 million in FY 2021); the High Luminosity-Large Hadron Collider Upgrade (HL-LHC) (\$33.0 million in FY 2021), and Mid-scale Research Infrastructure (\$65.0 million in FY 2021, shown on the MREFC Mid-scale RI line below).

³ Design Stage Activities include support for potential next generation multi-user facilities funded through R&RA. This line reflects FY 2019 funding of \$2.0 million for the potential Leadership Class Computing Facility.

⁴ NSF-wide Mid-scale Research Infrastructure is provided through both the R&RA account (if the total project cost is less than \$20.0 million) and the MREFC account (if the total project cost is greater than \$20.0 million). For more information, please refer to the Mid-scale Research Infrastructure narrative in the NSF-wide Investments chapter.

⁵ Polar Logistical and Infrastructure Support includes funding for Arctic Logistics; U.S. Antarctic Logistical Support Activities (USALS); and Polar Environment, Health, and Safety (PEHS).

⁶ Funding for Networking and Computational Resources Infrastructure and Services excludes support for the potential Leadership Class Computing Facility in FY 2019 (\$2.0 million), which is captured under Design Stage Activities above.

⁷ Funding for Research Resources includes support for the operation and maintenance of minor facilities, infrastructure and instrumentation, field stations, museum collections, etc.

