

**NATIONAL SCIENCE FOUNDATION
RESEARCH INFRASTRUCTURE SUMMARY
FY 2020 BUDGET REQUEST TO CONGRESS**

(Dollars in Millions)

	FY 2018 Actual	FY 2019 (TBD)	FY 2020 Request	FY 2020 Request change over	
				FY 2018 Actual Amount	Actual Percent
Operations and Maintenance of Major Facilities¹	\$1,039.77	-	\$861.94	-\$177.83	-17.1%
Major Research Facilities Construction Investments	\$228.47	-	\$181.63	-\$46.84	-20.5%
Construction, Acquisition, and Commissioning (MREFC) ²	185.73	-	177.23	-8.50	-4.6%
Design Stage Activities ³	42.74	-	4.40	-38.34	-89.7%
Mid-scale Research Infrastructure⁴	\$57.11	-	\$111.87	\$54.76	95.9%
MREFC Mid-scale Research Infrastructure	-	-	45.00	45.00	N/A
NSF-wide Mid-scale Research Infrastructure (R&RA)	-	-	30.00	30.00	N/A
Directorate Midscale Research Infrastructure Programs	57.11	-	36.87	-20.24	-35.4%
Major Research Instrumentation (MRI)	\$100.44	-	\$65.00	-\$35.44	-35.3%
Polar Logistical and Infrastructure Support⁵	\$124.23	-	\$120.61	-\$3.62	-2.9%
CISE Networking and Computational Resources Infrastructure and Services (NCRIS)⁶	\$118.39	-	\$113.50	-\$4.89	-4.1%
Research Resources⁷	\$186.47	-	\$157.88	-\$28.59	-15.3%
BIO	58.78	-	54.15	-4.63	-7.9%
CISE	36.27	-	36.00	-0.27	-0.7%
GEO	57.99	-	47.30	-10.69	-18.4%
MPS	15.65	-	8.02	-7.63	-48.8%
SBE	11.48	-	8.18	-3.30	-28.8%
OPP	6.29	-	4.23	-2.06	-32.7%
Other Research Infrastructure	\$76.32	-	\$75.45	-\$0.87	-1.1%
Subtotal, Research Infrastructure Support	\$1,931.19	-	\$1,687.88	-\$243.31	-12.6%
Research Infrastructure Stewardship Offset	-1.29	-	-1.67	-0.38	29.7%
RESEARCH INFRASTRUCTURE TOTAL	\$1,929.91	-	\$1,686.21	-\$243.70	-12.6%

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 DKIST (\$20.0 million in FY 2018); for RCRV (\$88.0 million in FY 2018); and LSST (\$57.80 million in FY 2018 and \$46.34 million in FY 2020); in FY 2020 for: Antarctic Infrastructure Modernization for Science (AIMS) (\$97.89 million), High-Luminosity Large Hadron Collider Upgrade (HL-LHC) (\$33.0 million), and Mid-scale Research Infrastructure (\$45.0 million, 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 funding for AIMS in FY 2018 (\$16.14 million); for a potential HL-LHC in FY 2018 (\$16.60 million, of which \$7.50 million funds FY 2019 and FY 2020 activities); for LIGO A+ (\$10.0 million in FY 2018 and \$400,000 in FY 2020); and for the potential Leadership Class Computing Facility in FY 2020 (\$4.0 million).

⁴ NSF-wide Mid-scale Research Infrastructure is provided through both the Research and Related Activities account (if the total project cost is less than \$20.0 million) and the Major Research Equipment and Facilities 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 excludes support for the potential Leadership Class Computing Facility in FY 2020 (\$4.0 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.

