

**National Science Foundation  
Research Infrastructure Summary  
FY 2012 Request to Congress**

(Dollars in Millions)

	FY 2010 Omnibus Actual	FY 2010 ARRA Actual	FY 2010 Annualized FY 2011 CR <sup>1</sup>	FY 2012 Request	FY 2012 Request change over:			
					FY 2010		FY 2010 Enacted	
					Amount	Percent	Amount	Percent
<b>Facilities</b>	<b>\$954.21</b>	<b>\$361.00</b>	<b>\$880.46</b>	<b>\$982.41</b>	<b>\$28.20</b>	<b>3.0%</b>	<b>\$101.95</b>	<b>11.6%</b>
Academic Research Fleet	\$78.04	-	\$80.00	\$69.35	-\$8.69	-11.1%	-\$10.65	-13.3%
<i>Regional Class Research Vessels</i>	-	-	2.00	2.00	2.00	N/A	-	-
<i>RHOV Construction (R/V Alvin Replacement)</i>	-	-	5.00	-	-	N/A	-5.00	-100.0%
<i>R/V Langseth Construction (R/V Ewing Replacement)</i>	-	-	-	-	-	N/A	-	-
<i>Ship Operations and Upgrades</i>	78.04	-	73.00	67.35	-10.69	-13.7%	-5.65	-7.7%
Academic Research Infrastructure <sup>2</sup>	-	200.00	-	-	-	N/A	-	N/A
Cornell High Energy Synchrotron Source (CHESS) \ Cornell Electron Storage Ring (CESR)	9.51	-	9.00	15.47	5.96	62.7%	6.47	71.9%
EarthScope: USArray, SAFOD, PBO	25.25	-	25.05	26.00	0.75	3.0%	0.95	3.8%
Gemini Observatory	19.10	-	19.10	20.07	0.97	5.1%	0.97	5.1%
Incorporated Research Institutions for Seismology	12.36	-	12.36	12.36	-	-	-	-
Integrated Ocean Drilling Program	50.80	-	43.40	45.40	-5.40	-10.6%	2.00	4.6%
Large Hadron Collider	18.00	-	18.00	18.00	-	-	-	-
Laser Interferometer Gravitational Wave Observatory	28.50	-	28.50	30.40	1.90	6.7%	1.90	6.7%
National Astronomy & Ionosphere Center	10.75	-	10.60	8.70	-2.05	-19.1%	-1.90	-17.9%
National High Magnetic Field Laboratory	40.53	15.00	35.56	33.30	-7.23	-17.8%	-2.26	-6.4%
National Nanotechnology Infrastructure Network (NNIN)	16.71	-	16.26	15.56	-1.15	-6.9%	-0.70	-4.3%
National Solar Observatory	9.10	-	9.10	9.79	0.69	7.6%	0.69	7.6%
National Superconducting Cyclotron Laboratory	21.00	-	21.00	21.50	0.50	2.4%	0.50	2.4%
Network for Earthquake Engineering Simulation	23.46	-	22.00	20.50	-2.96	-12.6%	-1.50	-6.8%
Other Facilities <sup>3</sup>	6.93	-	7.02	3.90	-3.03	-43.7%	-3.12	-44.4%
Polar Facilities and Logistics <sup>4</sup>	307.18	-	312.27	327.30	20.12	6.6%	15.03	4.8%
Other Facilities Investments								
Major Research Equipment & Facilities Construction <sup>5</sup>	220.55	146.00	163.54	292.21	71.66	32.5%	128.67	78.7%
Pre-construction Planning <sup>6,7</sup>	56.44	-	47.70	12.60	-43.84	-77.7%	-35.10	-73.6%
<b>Federally Funded R&amp;D Centers</b>	<b>\$202.45</b>	<b>-</b>	<b>\$198.63</b>	<b>\$205.85</b>	<b>\$3.40</b>	<b>1.7%</b>	<b>\$7.22</b>	<b>3.6%</b>
National Center for Atmospheric Research	96.29	-	97.00	100.00	3.71	3.9%	3.00	3.1%
National Optical Astronomy Observatories <sup>7</sup>	35.40	-	31.50	29.17	-6.22	-17.6%	-2.33	-7.4%
National Radio Astronomy Observatories <sup>8</sup>	67.73	-	67.09	73.54	5.81	8.6%	6.45	9.6%
Science and Technology Policy Institute	3.04	-	3.04	3.14	0.10	3.3%	0.10	3.3%
<b>Other Research Instrumentation and Infrastructure</b>	<b>\$590.66</b>	<b>\$200.15</b>	<b>\$583.36</b>	<b>\$539.11</b>	<b>-\$51.55</b>	<b>-8.7%</b>	<b>-\$44.25</b>	<b>-7.6%</b>
Major Research Instrumentation	89.99	200.15	90.00	90.00	0.01	0.0%	-	-
National STEM Education Distributed Learning	16.19	-	16.25	-	-16.19	-100.0%	-16.25	-100.0%
Networking & Computational Resources Infrastructure & Services	160.40	-	150.38	148.06	-12.34	-7.7%	-2.32	-1.5%
Polar Environment, Health & Safety	6.84	-	7.01	7.27	0.43	6.3%	0.26	3.7%
Research Resources <sup>9</sup>	283.50	-	285.50	256.08	-27.42	-9.7%	-29.42	-10.3%
National Center for Science & Engineering Statistics <sup>10</sup>	33.74	-	34.22	37.70	3.96	11.7%	3.48	10.2%
<b>Subtotal, Research Infrastructure Support</b>	<b>\$1,747.32</b>	<b>\$561.15</b>	<b>\$1,662.45</b>	<b>\$1,727.37</b>	<b>-\$19.95</b>	<b>-1.1%</b>	<b>\$64.92</b>	<b>3.9%</b>
<b>Research Infrastructure Stewardship Offset</b>	<b>-\$0.65</b>	<b>-</b>	<b>-\$0.27</b>	<b>-</b>	<b>\$0.65</b>	<b>-100.0%</b>	<b>\$0.27</b>	<b>-100.0%</b>
<b>RESEARCH INFRASTRUCTURE TOTAL</b>	<b>\$1,746.67</b>	<b>\$561.15</b>	<b>\$1,662.18</b>	<b>\$1,727.37</b>	<b>-\$19.30</b>	<b>-1.1%</b>	<b>\$65.19</b>	<b>3.9%</b>

Totals may not add due to rounding.

<sup>1</sup> A full-year appropriation for these accounts was not enacted at the time the budget was prepared; therefore, these accounts are operating under a continuing resolution (P.L. 111-242, as amended). The amounts included for 2011 reflect the annualized levels provided by the continuing resolution.

<sup>2</sup> Awards for the Academic Research Infrastructure program were funded through ARRA.

<sup>3</sup> Other Facilities includes support for other physics and materials research facilities.

<sup>4</sup> Polar Facilities and Logistics funding includes support for the operations and maintenance of the South Pole Station Modernization (SPSM) project. Funds provided through the MREFC account for SPSM are included on the MREFC Projects line. In FY 2010, Polar Facilities and Logistics excludes a one-time appropriation transfer of \$54.0 million to U.S. Coast Guard per P.L. 111-117.

<sup>5</sup> Funding levels for MREFC projects in this table include support for: a) concept and development associated with ongoing and requested MREFC projects provided through the R&RA account, specifically for NEON; b) initial support for operations and maintenance provided through the R&RA account (except for ALMA, which is included in the funding for NRAO); and c) construction implementation support provided through the MREFC account. Final MREFC support for SPSM is also included in this line.

<sup>6</sup> Preconstruction planning includes funding for potential next generation multi-user facilities. Not included on this line is \$1.73 million in FY 2010 Actual pre-construction planning funds for the Large-Aperture Synoptic Survey Telescope included under NAOO.

<sup>7</sup> Funding for the National Optical Astronomy Observatories (NOAO) for FY 2010 Actual includes \$1.73 million in pre-construction planning funds for the Large-Aperture Synoptic Survey Telescope.

<sup>8</sup> Funding for the National Radio Astronomy Observatories (NRAO) includes operation and maintenance support for the Atacama Large Millimeter Array (ALMA). Construction funding for ALMA is included in the MREFC projects line.

<sup>9</sup> Funding for Research Resources includes support for the operation and maintenance of minor facilities, infrastructure and instrumentation, field stations, museum collections, etc.

<sup>10</sup> Science Resources Statistics (SRS) has been renamed the National Center for Science and Engineering Statistics, per P.L. 111-358.