

Table II-7. NSF R&D

Table II-7. R&D in the National Science Foundation
(budget authority in millions of dollars) *

	FY 2003 Actual	FY 2004 Estimate	FY 2005 Budget	Change FY 04-05	
				Amount	Percent
1. Research and Related Activities (R&RA)					
Mathematical and Physical Sciences (MPS)					
Astronomical Sciences	187	197	204	8	4.0%
Chemistry	182	185	189	4	2.0%
Materials Research	241	251	253	2	0.9%
Mathematical Sciences	179	200	202	2	0.9%
Physics	225	228	236	8	3.6%
Multidisciplinary Activities	27	31	31	0	0.9%
Total MPS	1,041	1,092	1,116	24	2.2%
Engineering (ENG)					
Bioengineering & Env. Sys.	49	51	50	-1	-2.5%
Chemical & Transport System Design, Manufacture, & Industrial Innovation	68	69	67	-2	-2.5%
Electrical & Commun. Sys.	155	169	170	1	0.3%
Engineering Edu. & Centers	73	75	73	-2	-2.5%
Civil & Mechanical Systems	133	134	131	-3	-2.5%
	63	67	86	18	27.3%
Total ENG	542	565	576	11	1.9%
Biological Sciences (BIO)					
Molecular and Cellular Biosci.	122	122	125	3	2.6%
Integrative Biology & Neurosci.	107	107	111	3	3.0%
Environmental Biology	108	108	111	3	3.0%
Biological Infrastructure	75	80	85	5	6.5%
Emerging Frontiers	73	80	78	-2	-2.3%
Plant Genome Research	84	89	89	0	0.0%
Total BIO	570	587	600	13	2.2%
Geosciences (GEO)					
Atmospheric Sciences	231	239	244	5	2.0%
Earth Sciences	147	152	156	4	2.7%
Ocean Sciences	313	323	329	7	2.0%
Total GEO	692	713	729	15	2.2%
Computer and Information Science and Engineering (CISE)					
Computer & Networked Sys.	117	115	132	17	15.2%
Computing & Communication Information & Intelligent Systems	81	79	91	12	15.8%
	82	80	93	12	15.6%

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	FY 2003	FY 2004	FY 2005	Change FY 04-05	
	Actual	Estimate	Budget	Amount	Percent
Shared Cyberinfrastructure	95	113	124	11	9.7%
Information Tech. Research	214	218	178	-40	-18.3%
Total CISE	589	605	618	13	2.2%
Social, Behavioral, and Economic Sciences (SBE)					
Social & Economic Scis.	71	81	89	8	9.3%
Behavioral & Cognitive Scis.	62	69	76	8	10.9%
Int'l. Sci. and Engineering	27	28	34	6	21.1%
Science Resources Statistics	25	26	26	0	0.0%
Total SBE	185	204	225	21	10.3%
US Polar Programs					
Polar Research Programs	255	274	282	8	2.8%
Antarctic Logistical Support	69	68	68	0	0.0%
Total Polar Programs	324	342	350	8	2.2%
Integrative Activities ³	98	144	240	96	66.5%
BA Adjustment *	29	0	0	0	--
Total R&RA *	4,070	4,251	4,452	201	4.7%
2. Major Research Equipment & Facilities Construction	150	155	213	58	37.6%
3. Education & Human Resources (EHR)					
Elem., Secondary, & Informal ¹	223	212	173	-40	-18.6%
Undergraduate Education	173	156	159	3	2.2%
Graduate Education	140	156	174	18	11.5%
Human Resource Develop.	99	116	108	-8	-6.8%
Math & Science Partnerships ³	144	139	0	-139	-100.0%
Res., Eval., And Commun.	67	66	74	8	12.4%
EPSCoR ²	89	94	84	-10	-11.1%
BA Adjustment *	-26	0	0	0	--
Total EHR	909	939	771	-168	-17.9%

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	FY 2003	FY 2004	FY 2005	Change FY 04-05	
	Actual	Estimate	Budget	Amount	Percent
4. Salaries and Expenses	190	219	294	75	34.4%
5. National Science Board	4	4	4	0	1.8%
6. Inspector General	9	10	10	0	1.7%
Total NSF Budget *	5,332	5,578	5,745	167	3.0%
Deduct non-R&D Activities:					
<i>R&RA non-R&D</i>	-432	-467	-571	105	22.4%
<i>EHR non-R&D</i>	-770	-802	-640	-162	-20.2%
<i>Salaries and Expenses</i>	-190	-219	-294	75	34.4%
<i>National Science Board</i>	-4	-4	-4	0	1.8%
<i>Inspector General</i>	-9	-10	-10	0	1.7%
Total NSF R&D	3,926	4,077	4,226	149	3.6%
Conduct of R&D	3,620	3,730	3,844	114	3.1%
R&D Facilities	306	347	382	35	10.0%

Source: NSF budget justification and Quantitative Data Tables.

* - Directorate detailed figures are in obligations. BA adjustment converts obligations to budget authority.

Does not include funding from H-1B Nonimmigrant Petitioner Fees.

¹ Includes Education System Reform as of FY 2004.

² Experimental Program to Stimulate Competitive Research.

³ The FY 2005 request proposes to move funding for the partnerships from E.H.R. to Integrative Activities in R&RA at a request of \$80 million.

All figures are rounded to the nearest million. Changes calculated from unrounded figures.

Please see Chapter 7 for information on the NSF budget.