SUMMARY TABLES/ CHARTS

National Science Foundation
By Strategic Goal and Account
FY 2004 Request

			FY 2004 Request Level						
NSF Accounts	FY 2002 Actuals	FY 2003 Request	People	Ideas	Tools	A&M	FY 2004 Request	$ Change Request over 03 Request	% Change Request over 03 Request
FY 2002 Actuals	**$4,774.06**		**$994.79**	**$2,436.28**	**$1,112.41**	**$230.58**			
FY 2003 Request		**$5,028.22**	**$1,086.70**	**$2,559.45**	**$1,121.50**	**$260.57**			
BIO	509.64	525.62	50.78	447.90	59.14	4.40	562.22	36.59	7.0%
CISE	515.01	526.94	56.94	354.12	166.09	7.11	584.26	57.32	10.9%
ENG	391.72	404.33	83.42	334.34	10.75	6.90	435.42	31.09	7.7%
SBIR, STTR	*79.11*	*83.65*	*0.00*	*101.15*	*0.00*	*0.00*	*101.15*	*17.50*	*20.9%*
GEO	609.55	691.07	36.51	395.10	248.31	8.00	687.92	-3.15	-0.5%
MPS	920.42	941.57	124.67	670.25	260.36	5.99	1,061.27	119.70	12.7%
SBE	183.97	195.61	15.23	151.15	39.99	5.37	211.74	16.13	8.2%
OPP	300.79	303.81	6.47	78.35	241.36	3.75	329.93	26.12	8.6%
IA	105.76	110.61	14.00	24.45	94.00	0.00	132.45	21.84	19.7%
Research & Related Activities	**$3,615.97**	**$3,783.21**	**$388.02**	**$2,556.82**	**$1,120.00**	**$41.52**	**$4,106.36**	**$323.15**	**8.5%**
Education & Human Resources	**$866.11**	**$908.08**	**$764.85**	**$139.22**	**$18.60**	**$15.37**	**$938.04**	**$29.96**	**3.3%**
Major Research Equipment & Facilities Constuction	**$115.35**	**$126.28**	**$0.00**	**$0.00**	**$202.33**	**$0.00**	**$202.33**	**$76.05**	**60.2%**
Salaries & Expenses	**$169.93**	**$202.95**	**$0.00**	**$0.00**	**$0.00**	**$225.70**	**$225.70**	**$22.75**	**11.2%**
Office of Inspector General	**$6.70**	**$7.70**	**$0.00**	**$0.00**	**$0.00**	**$8.77**	**$8.77**	**$1.07**	**13.9%**
Total, National Science Foundation	**$4,774.06**	**$5,028.22**	**$1,152.87**	**$2,696.04**	**$1,340.93**	**$291.36**	**$5,481.20**	**$452.98**	**9.0%**
H-1B Visa	*$57.31*	*$65.68*					*$0.00*		
Total NSF, Including H-1B Visa	*$4,831.37*	*$5,093.90*	*$1,152.87*	*$2,696.04*	*$1,340.93*	*$291.36*	*$5,481.20*	*$387.30*	*7.6%*
Percent Increase over Prior Year, excluding H-1B Visa			**6.1%**	**5.3%**	**19.6%**	**11.8%**			

Totals may not add due to rounding.

National Science Foundation
Selected Cross-Cutting Programs
FY 2004

Selected Cross-Cutting Programs		FY 2002 Actuals	FY 2003 Request	FY 2004 Request	$ Change Request over 03 Request	% Change Request over 03 Request
ADVANCE	Research & Related Activities	$15.67	$16.69	$21.16	$4.47	26.8%
	Education & Human Resources	$0.45	$0.45	$0.00	-$0.45	-100.0%
	Total, NSF	**$16.12**	**$17.14**	**$21.16**	**$4.02**	**23.5%**
Faculty Early Career Development - CAREER	Research & Related Activities	$132.21	$122.68	$128.33	$5.65	4.6%
	Education & Human Resources	$0.00	$0.00	$0.00	$0.00	
	Total, NSF	**$132.21**	**$122.68**	**$128.33**	**$5.65**	**4.6%**
Graduate Teaching Fellowships in K-12 Education - GK-12	Research & Related Activities	$3.64	$6.70	$7.64	$0.94	14.0%
	Education & Human Resources	$23.17	$34.75	$42.46	$7.71	22.2%
	Total, NSF	**$26.81**	**$41.45**	**$50.10**	**$8.65**	**20.9%**
Graduate Research Fellowships - GRF	Research & Related Activities	$4.10	$7.11	$8.06	$0.95	13.4%
	Education & Human Resources	$63.30	$73.45	$89.74	$16.29	22.2%
	Total, NSF	**$67.40**	**$80.56**	**$97.80**	**$17.24**	**21.4%**
Integrative Graduate Education and Research Traineeships - IGERT	Research & Related Activities	$23.24	$33.59	$42.40	$8.81	26.2%
	Education & Human Resources	$19.50	$20.20	$24.70	$4.50	22.3%
	Total, NSF	**$42.74**	**$53.79**	**$67.10**	**$13.31**	**24.7%**
Model Institutions of Excellence - MIE	Research & Related Activities	$7.29	$7.29	$7.29	$0.00	0.0%
	Education & Human Resources	$2.50	$2.52	$2.52	$0.00	0.0%
	Total, NSF	**$9.79**	**$9.81**	**$9.81**	**$0.00**	**0.0%**
PostDoctoral Programs	Research & Related Activities	$14.51	$15.04	$20.46	$5.42	36.0%
	Education & Human Resources	$0.00	$0.00	$0.00	$0.00	
	Total, NSF	**$14.51**	**$15.04**	**$20.46**	**$5.42**	**36.0%**
Research Experience for Undergraduates - REU	Research & Related Activities	$47.68	$44.83	$45.58	$0.75	1.7%
	Education & Human Resources	$0.00	$0.00	$0.00	$0.00	
	Total, NSF	**$47.68**	**$44.83**	**$45.58**	**$0.75**	**1.7%**
Interagency Education Research Initiative - IERI	Research & Related Activities	$8.00	$10.00	$10.00	$0.00	0.0%
	Education & Human Resources	$14.67	$15.00	$15.00	$0.00	0.0%
	Total, NSF	**$22.67**	**$25.00**	**$25.00**	**$0.00**	**0.0%**
Science and Technology Centers - STCs	Research & Related Activities	$44.38	$45.10	$44.91	-$0.19	-0.4%
	Education & Human Resources	$0.00	$0.00	$0.00	$0.00	
	Total, NSF	**$44.38**	**$45.10**	**$44.91**	**-$0.19**	**-0.4%**

**Totals may not add due to rounding.*

NSF Funding Profile

The Number of Requests for Funding is a count of all proposals received as well as requests for additional funding on continuing awards. Additional funding on continuing awards is contingent upon availability of funds and whether the results achieved are determined to warrant further support. Dollars Requested includes all dollars associated with the requests for funding.

Total Number of Awards is a count of the awards funded in the fiscal year. It includes both new awards and the second and subsequent years of a continuing award.

Approximately half of the awards that are supported in a particular fiscal year are competitively reviewed in that year through NSF's merit review process. The other awards are continuations of projects that were competitively reviewed in a prior year. As shown in the Number of Competitive Awards, the Funding Rate is the number of competitive awards made during a year as a percentage of total proposals competitively reviewed. It indicates the probability of winning an award when submitting proposals to NSF.

Research Grants are those limited to research projects and excludes other categories of awards that fund infrastructure-type activities such as equipment and conference awards, which do not require multi-year support.

The Annualized Award Size displays the annual level of research grants provided to awardees by dividing the total dollars of each award by the number of years over which it extends. Both the average and the median annualized award size for competitively reviewed awards are shown.

Average Duration is the length of the award in years.

The Quantitative Data Tables, provided under a separate tab, are based on all proposals and awards, including competitive awards, contracts, cooperative agreements, supplements and amendments to existing grants and contracts.

NSF FUNDING PROFILE

	FY 2002 Actual	FY 2003 Estimate	FY 2004 Estimate
Number of Requests for Funding [1]	45,280	45,940	47,260
Dollars Requested (in millions) [1]	$31,620	$32,190	$33,220
Total Number of Awards	21,670	21,900	22,870
Statistics for Competitive Awards			
Number	10,630	10,460	10,950
Funding Rate	30%	31%	30%
Statistics for Research Grants			
Number of Research Grants	6,850	6,550	6,870
Median Annualized Award Size	$84,290	$87,470	$90,890
Average Annualized Award Size	$115,710	$125,000	$128,000
Average Duration (yrs.)	2.9	3.0	3.0

[1] Does not include H-1B scholarship and graduate fellowship applications.

NSF NSTC CROSSCUTS
FY 2004 Budget Request to Congress

	U.S. Global Change Research Program			Networking and Information Technology Research & Development			National Nanotechnology Initiative		
	FY 2002 Actual	FY 2003 Request	FY 2004 Request	FY 2002 Actual	FY 2003 Request	FY 2004 Request	FY 2002 Actual	FY 2003 Request	FY 2004 Request
BIO	15.10	15.10	15.10	31.00	31.60	32.30	2.50	2.98	4.98
CISE				514.88	526.94	583.18	10.20	11.14	15.14
ENG	0.75	1.00	1.00	10.23	11.17	11.17	86.30	94.35	106.85
GEO	137.49	137.49	137.49	12.16	13.21	14.56	6.80	7.53	7.88
MPS	5.45	5.45	5.45	47.53	59.23	58.75	98.68	103.92	110.42
SBE	16.90	15.48	15.48	7.92	12.78	12.78		1.11	1.50
OPP	13.78	13.78	13.78	1.22	1.33	1.33			
IA									
R&RA	189.47	188.30	188.30	624.94	656.26	714.07	204.48	221.03	246.77
EHR				2.00	2.48	9.53		0.22	2.22
MRE				35.00	20.00				
NSF TOTAL	**$189.47**	**$188.30**	**$188.30**	**$661.94**	**$678.74**	**$723.60**	**$204.48**	**$221.25**	**$248.99**

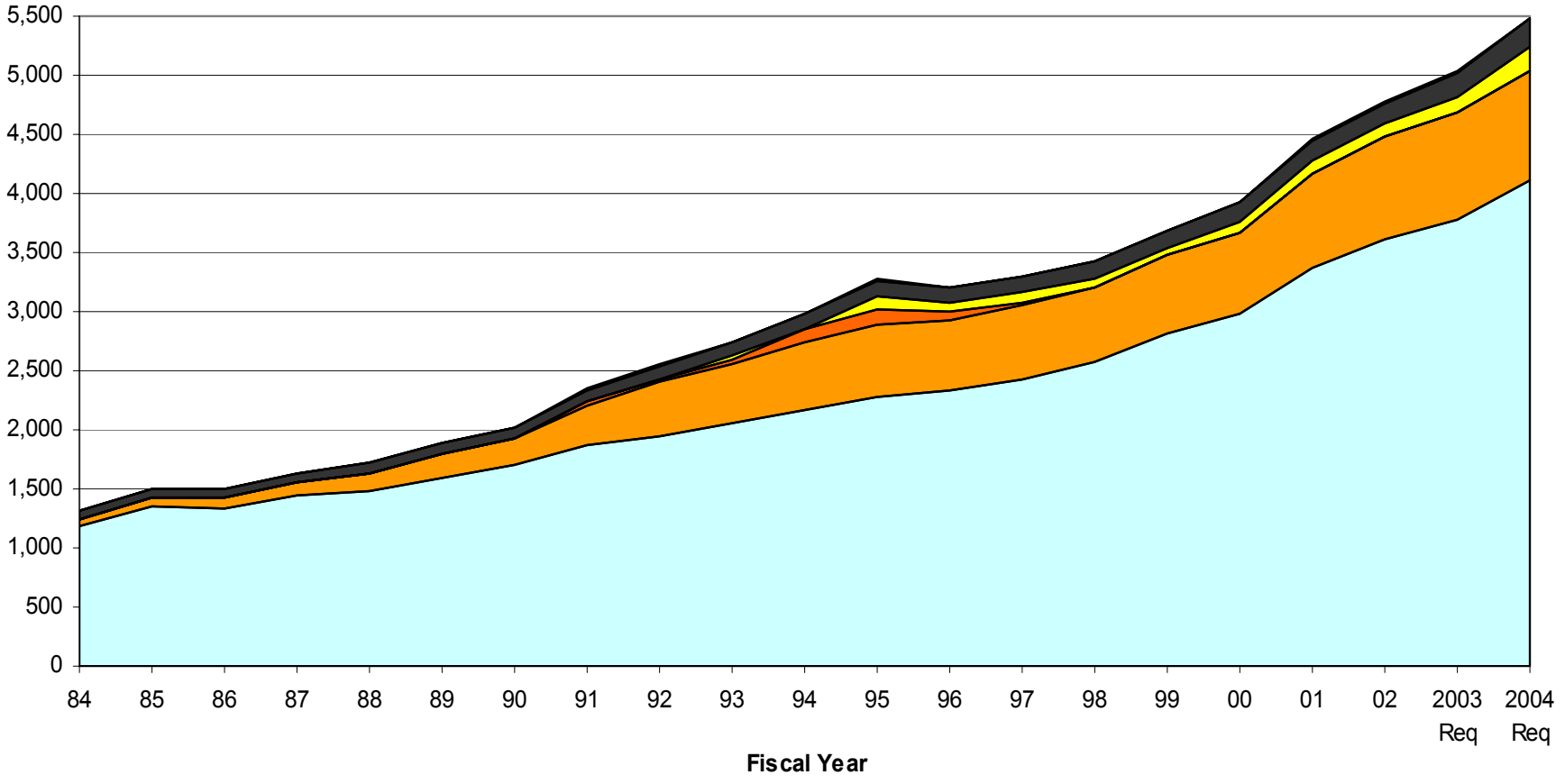
NSF By Account

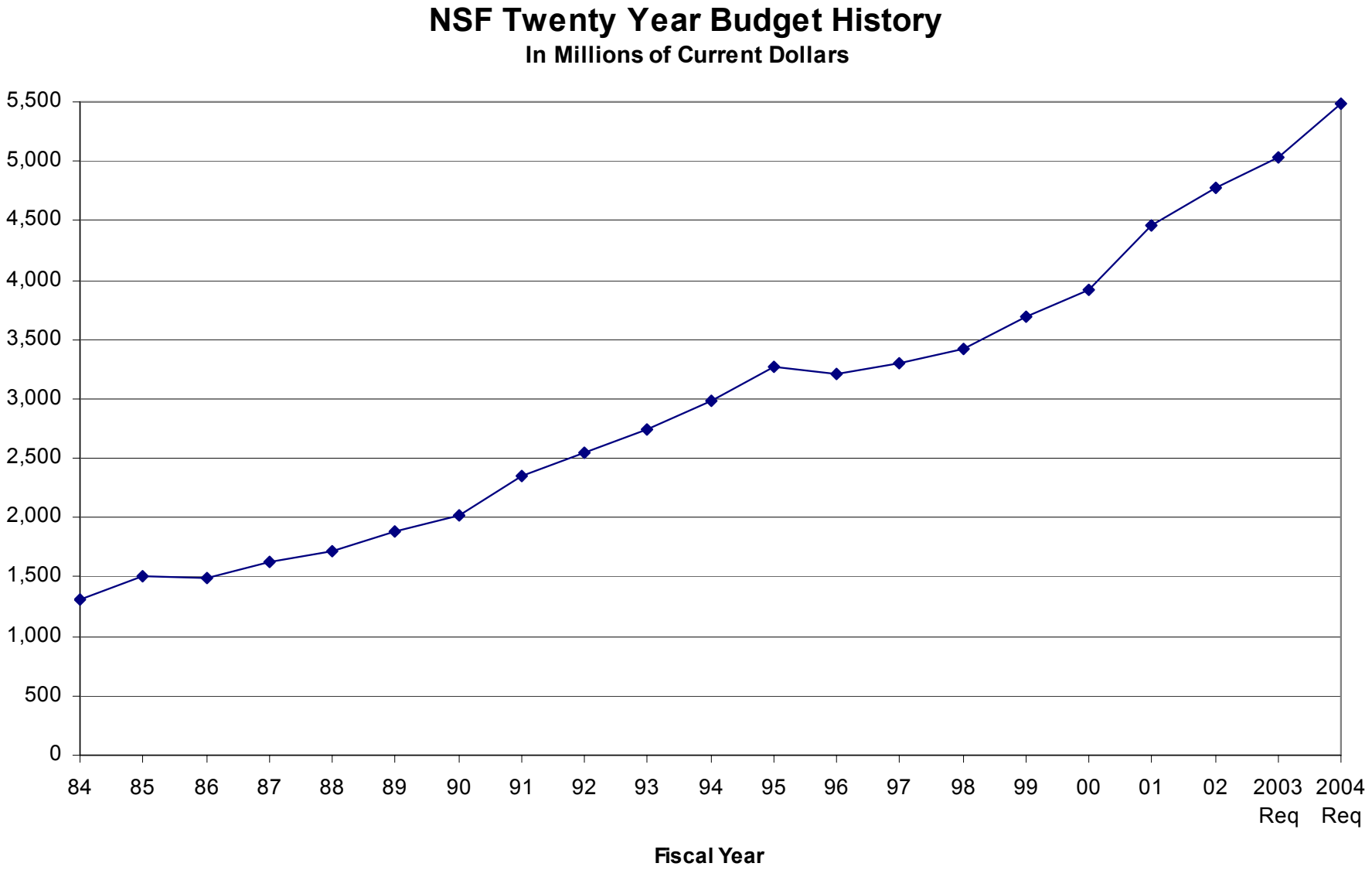
(Actual Dollars in Millions - Current Dollars)

Fiscal Year	Research & Related Activities	Education & Human Resources	Academic Research Infrastructure	Major Research Equipment & Facilities Construction	Salaries & Expenses	Office of Inspector General	NSF
51	0.0	0.0	0.0		0.1	0.0	0.2
52	1.4	1.5	0.0		0.5	0.0	3.5
53	2.1	1.4	0.0		0.9	0.0	4.4
54	4.5	1.9	0.0		1.5	0.0	8.0
55	8.9	2.1	0.0		1.5	0.0	12.5
56	10.8	3.5	0.0		1.7	0.0	16.0
57	22.0	14.3	0.0		2.4	0.0	38.6
58	27.4	19.2	0.0		2.9	0.0	49.5
59	66.3	61.3	0.0		5.3	0.0	132.9
60	88.4	63.7	0.0		6.5	0.0	158.6
61	104.0	63.4	0.0		7.6	0.0	175.0
62	173.3	78.6	0.0		9.0	0.0	260.8
63	218.9	91.0	0.0		10.9	0.0	320.8
64	239.9	102.6	0.0		12.1	0.0	354.6
65	282.4	120.4	0.0		13.1	0.0	416.0
66	328.6	124.3	0.0		13.1	0.0	466.0
67	327.7	123.4	0.0		14.0	0.0	465.1
68	350.2	134.7	0.0		15.4	0.0	500.3
69	292.9	123.1	0.0		16.5	0.0	432.5
70	316.4	126.4	0.0		19.7	0.0	462.5
71	369.4	105.0	0.0		21.8	0.0	496.1
72	482.4	93.7	0.0		24.6	0.0	600.7
73	519.4	62.2	0.0		28.6	0.0	610.3
74	533.3	80.7	0.0		31.7	0.0	645.7
75	581.2	74.0	0.0		37.9	0.0	693.1
76	619.7	62.5	0.0		42.2	0.0	724.4
77	672.0	74.3	0.0		45.5	0.0	791.8
78	734.7	73.9	0.0		48.7	0.0	857.3
79	791.8	80.4	0.0		54.8	0.0	926.9
80	836.8	80.1	0.0		58.2	0.0	975.1
81	900.4	75.7	0.0		59.2	0.0	1,035.3
82	909.8	26.2	0.0		63.2	0.0	999.1
83	1,013.0	23.0	0.0		65.7	0.0	1,101.7
84	1,177.7	63.0	0.0		66.3	0.0	1,306.9
85	1,344.6	90.6	0.0		72.0	0.0	1,507.1
86	1,329.6	91.7	0.0		71.8	0.0	1,493.2
87	1,440.0	109.9	0.0		77.8	0.0	1,627.6
88	1,481.3	156.8	0.0		84.5	0.0	1,722.6
89	1,600.5	194.1	0.0		91.3	0.0	1,885.9
90	1,696.6	230.4	0.4		96.4	2.3	2,026.1
91	1,868.5	331.9	39.0		101.2	2.9	2,343.5
92	1,940.5	459.4	33.4		110.0	3.9	2,547.1
93	2,046.3	505.1	49.8	34.1	110.8	3.7	2,749.7
94	2,168.4	569.0	105.4	17.0	123.5	3.9	2,987.2
95	2,281.5	611.9	117.5	126.0	129.0	4.5	3,270.3
96	2,327.8	601.2	70.9	70.0	132.5	4.0	3,206.3
97	2,433.9	619.1	30.0	76.1	134.3	5.3	3,298.8
98	2,572.6	633.2	0.0	78.2	136.9	4.8	3,425.7
99	2,821.6	662.5	0.0	56.7	144.1	5.4	3,690.3
00	2,979.9	683.6	0.0	105.0	149.3	5.6	3,923.4
01	3,372.3	795.4	0.0	119.2	166.3	6.6	4,459.9
02	3,616.0	866.1	0.0	115.4	169.9	6.7	4,774.1
2003 Req	3,783.2	908.1	0.0	126.3	203.0	7.7	5,028.2
2004 Req	4,106.4	938.0	0.0	202.3	225.7	8.8	5,481.2

NSF Twenty Year Budget by Account

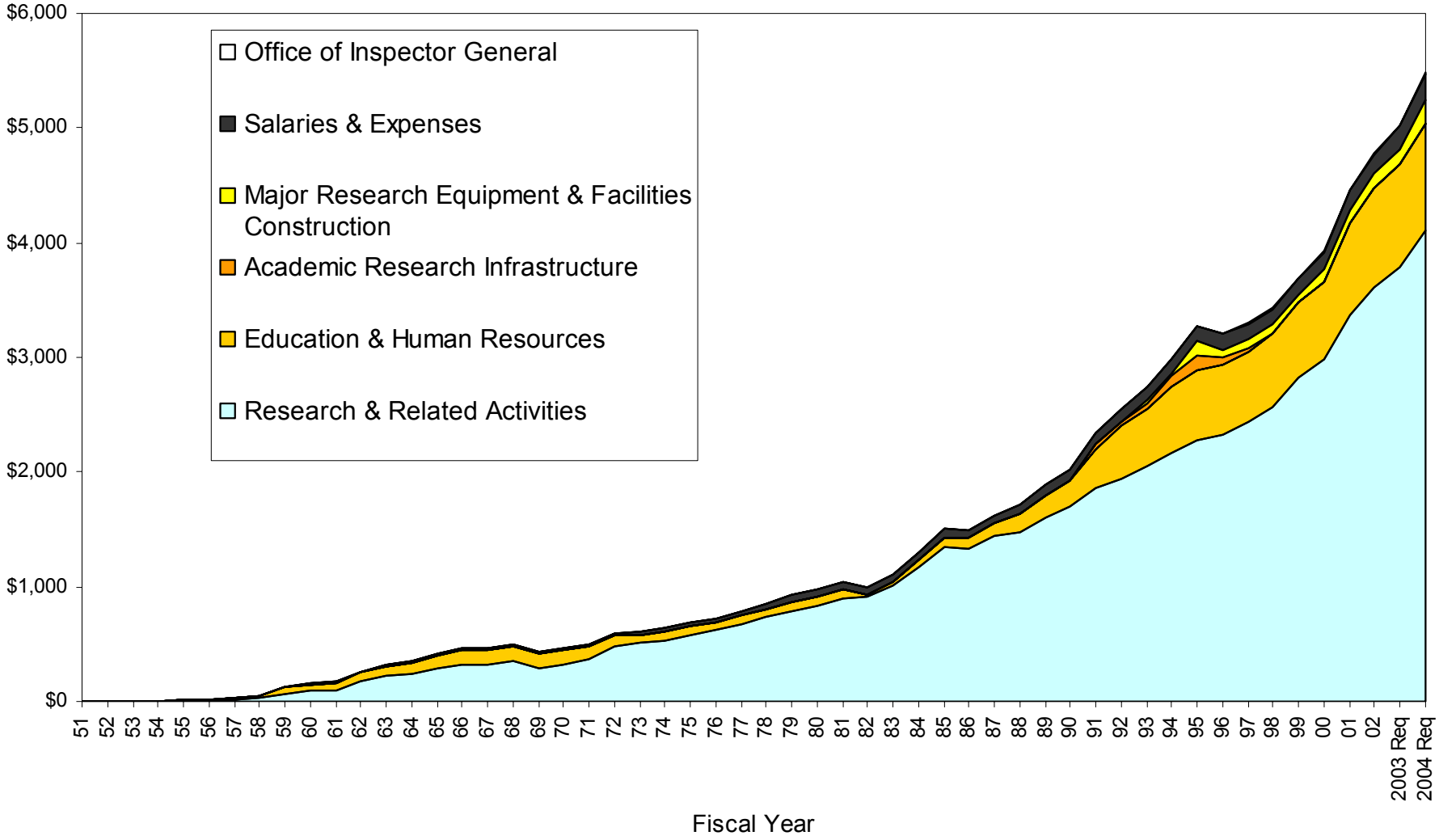
In Millions of Current Dollars

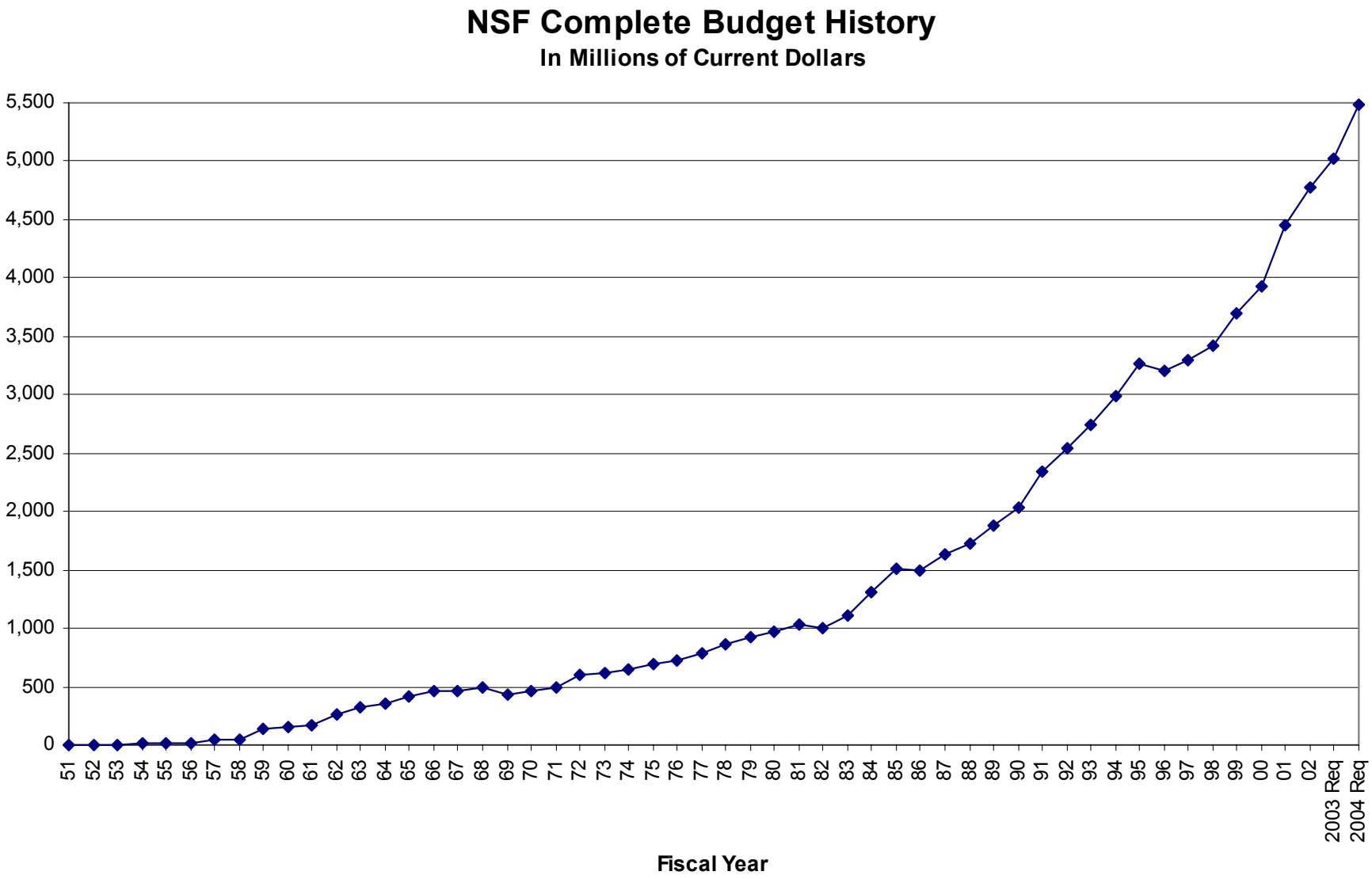



NSF Twenty Year Budget History
In Millions of Current Dollars
5,500
5,000
4,500
4,000
3,500
3,000
2,500
2,000
1,500
1,000
500
0
84
85
86
87
88
89
90
91
92
93
94
95
96
97
98
99
00
01
02
2003 Req
2004 Req
Fiscal Year

NSF Complete Budget History by Account

In Millions of Current Dollars




NSF Complete Budget History
In Millions of Current Dollars
5,500
5,000
4,500
4,000
3,500
3,000
2,500
2,000
1,500
1,000
500
0
51 52 53 54 55 56 57 58 59 60 61 62 63 64 65 66 67 68 69 70 71 72 73 74 75 76 77 78 79 80 81 82 83 84 85 86 87 88 89 90 91 92 93 94 95 96 97 98 99 00 01 02 2003 Req 2004 Req
Fiscal Year

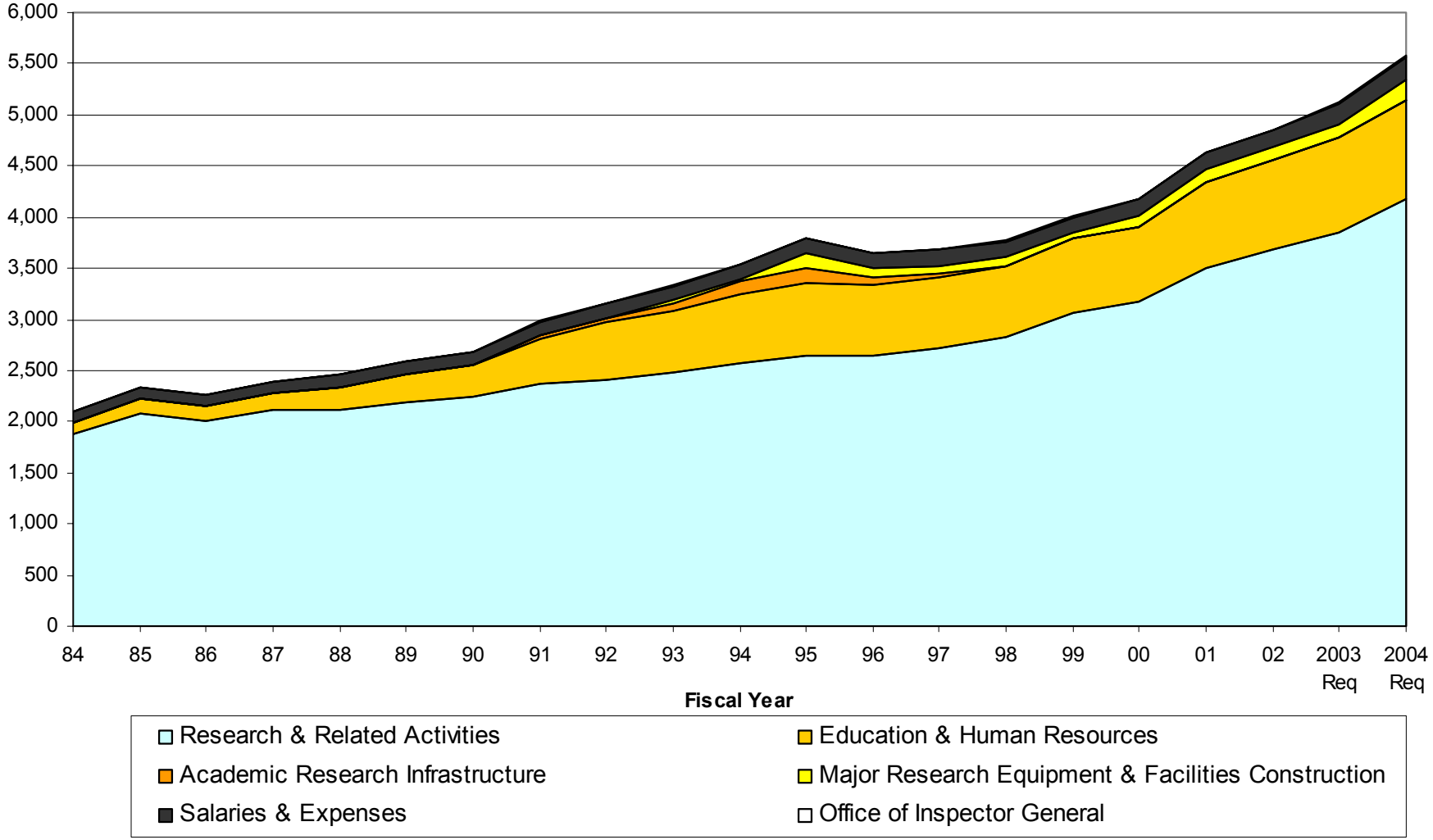
NSF By Account

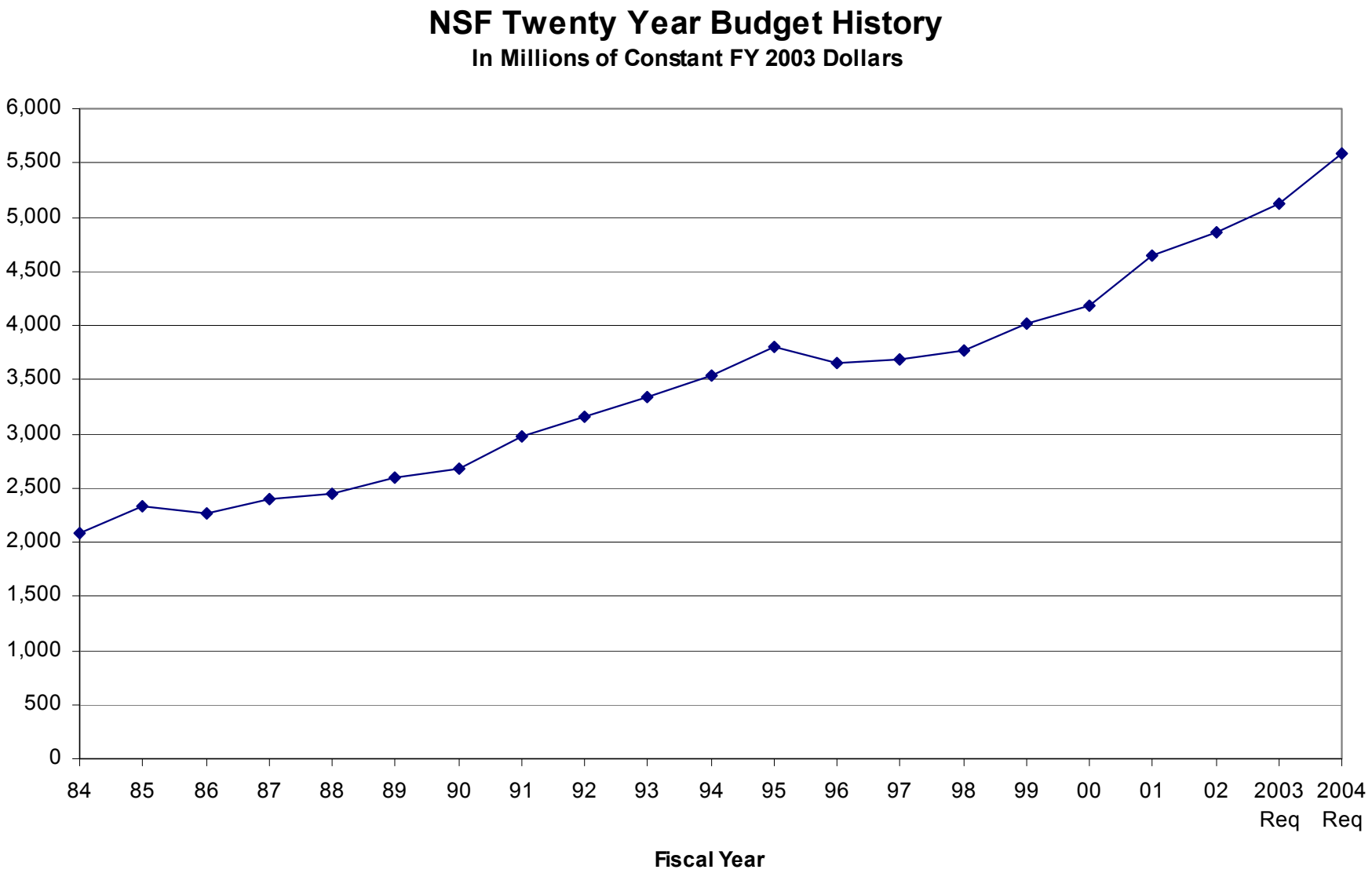
(FY Actuals - FY 2003 Constant Dollars in Millions)

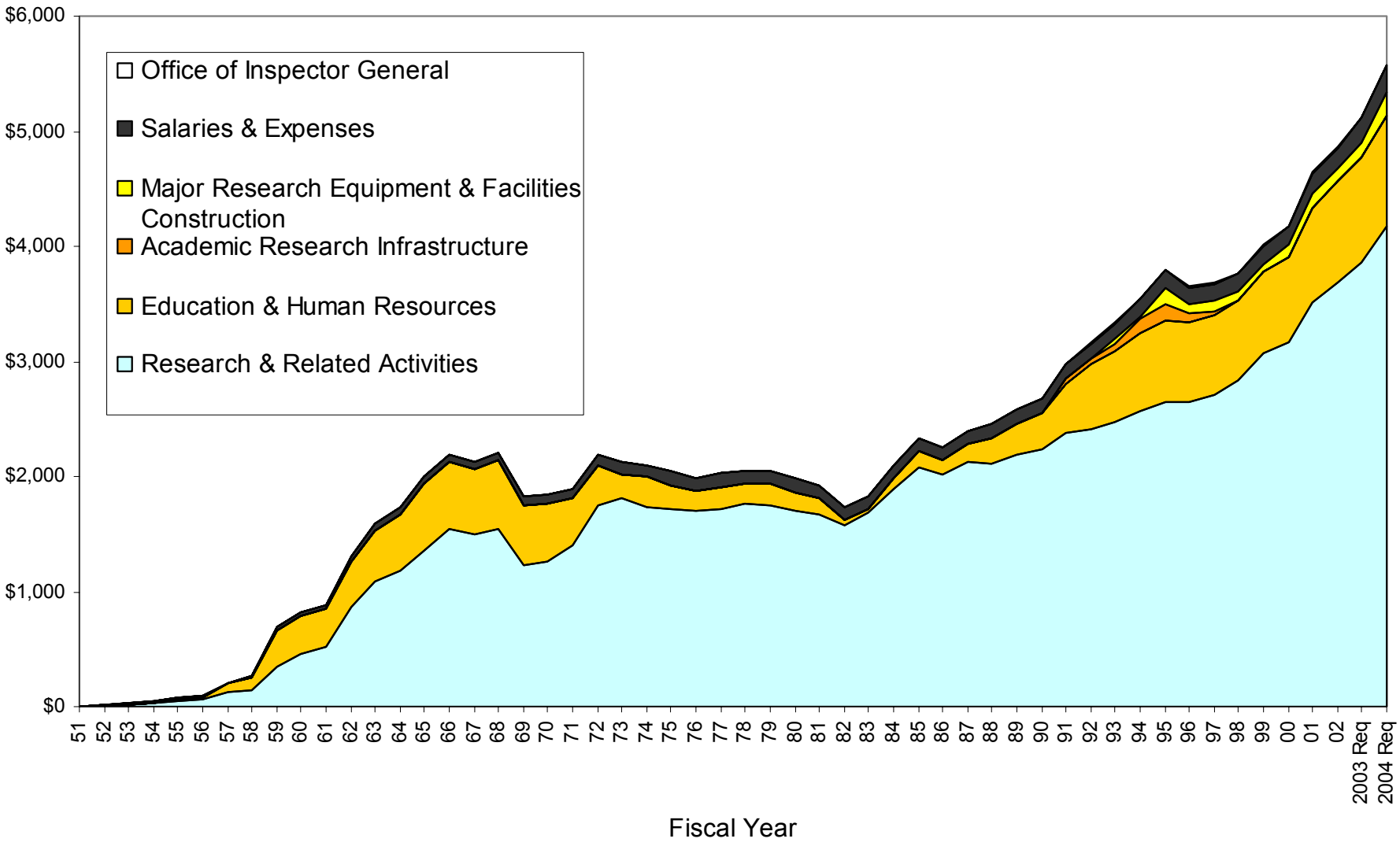
Fiscal Year	Research & Related Activities	Education & Human Resources	Academic Research Infrastructure	Major Research Equipment & Facilities Construction	Salaries & Expenses	Office of Inspector General	NSF
51	0.2	0.0	0.0	0.0	0.8	0.0	0.9
52	8.5	9.3	0.0	0.0	3.2	0.0	20.9
53	12.7	8.3	0.0	0.0	5.2	0.0	26.2
54	26.4	11.1	0.0	0.0	9.0	0.0	46.5
55	51.4	12.1	0.0	0.0	9.0	0.0	72.4
56	61.0	19.9	0.0	0.0	9.5	0.0	90.3
57	119.7	77.9	0.0	0.0	12.8	0.0	210.4
58	144.7	101.5	0.0	0.0	15.5	0.0	261.8
59	345.1	318.9	0.0	0.0	27.4	0.0	691.3
60	454.5	327.9	0.0	0.0	33.5	0.0	815.8
61	527.4	321.8	0.0	0.0	38.4	0.0	887.6
62	869.2	394.2	0.0	0.0	45.0	0.0	1,308.5
63	1,083.8	450.5	0.0	0.0	53.8	0.0	1,588.1
64	1,174.3	502.0	0.0	0.0	59.0	0.0	1,735.2
65	1,358.2	579.0	0.0	0.0	63.1	0.0	2,000.4
66	1,547.0	585.2	0.0	0.0	61.6	0.0	2,193.8
67	1,495.0	562.8	0.0	0.0	64.1	0.0	2,121.9
68	1,542.0	593.2	0.0	0.0	67.7	0.0	2,202.9
69	1,233.8	518.6	0.0	0.0	69.5	0.0	1,821.9
70	1,263.6	504.8	0.0	0.0	78.6	0.0	1,847.1
71	1,404.6	399.3	0.0	0.0	82.8	0.0	1,886.7
72	1,752.6	340.5	0.0	0.0	89.2	0.0	2,182.3
73	1,806.8	216.5	0.0	0.0	99.5	0.0	2,122.8
74	1,731.7	262.1	0.0	0.0	102.8	0.0	2,096.5
75	1,710.2	217.8	0.0	0.0	111.4	0.0	2,039.4
76	1,703.2	171.7	0.0	0.0	116.1	0.0	1,990.9
77	1,717.8	189.8	0.0	0.0	116.4	0.0	2,024.0
78	1,757.6	176.7	0.0	0.0	116.5	0.0	2,050.8
79	1,752.0	177.9	0.0	0.0	121.2	0.0	2,051.1
80	1,700.6	162.7	0.0	0.0	118.4	0.0	1,981.6
81	1,667.9	140.2	0.0	0.0	109.7	0.0	1,917.8
82	1,575.0	45.4	0.0	0.0	109.4	0.0	1,729.8
83	1,679.9	38.1	0.0	0.0	108.9	0.0	1,827.0
84	1,883.6	100.7	0.0	0.0	106.0	0.0	2,090.3
85	2,081.7	140.2	0.0	0.0	111.4	0.0	2,333.3
86	2,010.2	138.6	0.0	0.0	108.6	0.0	2,257.4
87	2,118.7	161.7	0.0	0.0	114.4	0.0	2,394.8
88	2,110.5	223.4	0.0	0.0	120.3	0.0	2,454.2
89	2,195.9	266.2	0.0	0.0	125.2	0.0	2,587.4
90	2,243.3	304.7	0.5	0.0	127.4	3.1	2,679.0
91	2,378.0	422.4	49.7	0.0	128.8	3.7	2,982.6
92	2,406.7	569.8	41.4	0.0	136.4	4.8	3,159.1
93	2,478.8	611.8	60.3	41.3	134.3	4.5	3,330.8
94	2,571.0	674.7	124.9	20.2	146.4	4.6	3,541.9
95	2,647.7	710.1	136.3	146.2	149.7	5.2	3,795.3
96	2,648.6	684.0	80.7	79.6	150.8	4.5	3,648.2
97	2,716.4	691.0	33.5	85.0	149.9	5.9	3,681.6
98	2,831.2	696.8	0.0	86.1	150.7	5.3	3,770.0
99	3,065.1	719.7	0.0	61.6	156.5	5.9	4,008.8
00	3,171.7	727.6	0.0	111.8	158.9	6.0	4,175.9
01	3,508.3	827.5	0.0	124.0	173.0	6.8	4,639.7
02	3,681.0	881.7	0.0	117.4	173.0	6.8	4,859.9
2003 Req	3,851.2	924.4	0.0	128.6	206.6	7.8	5,118.6
2004 Req	4,180.2	954.9	0.0	206.0	229.8	8.9	5,579.8

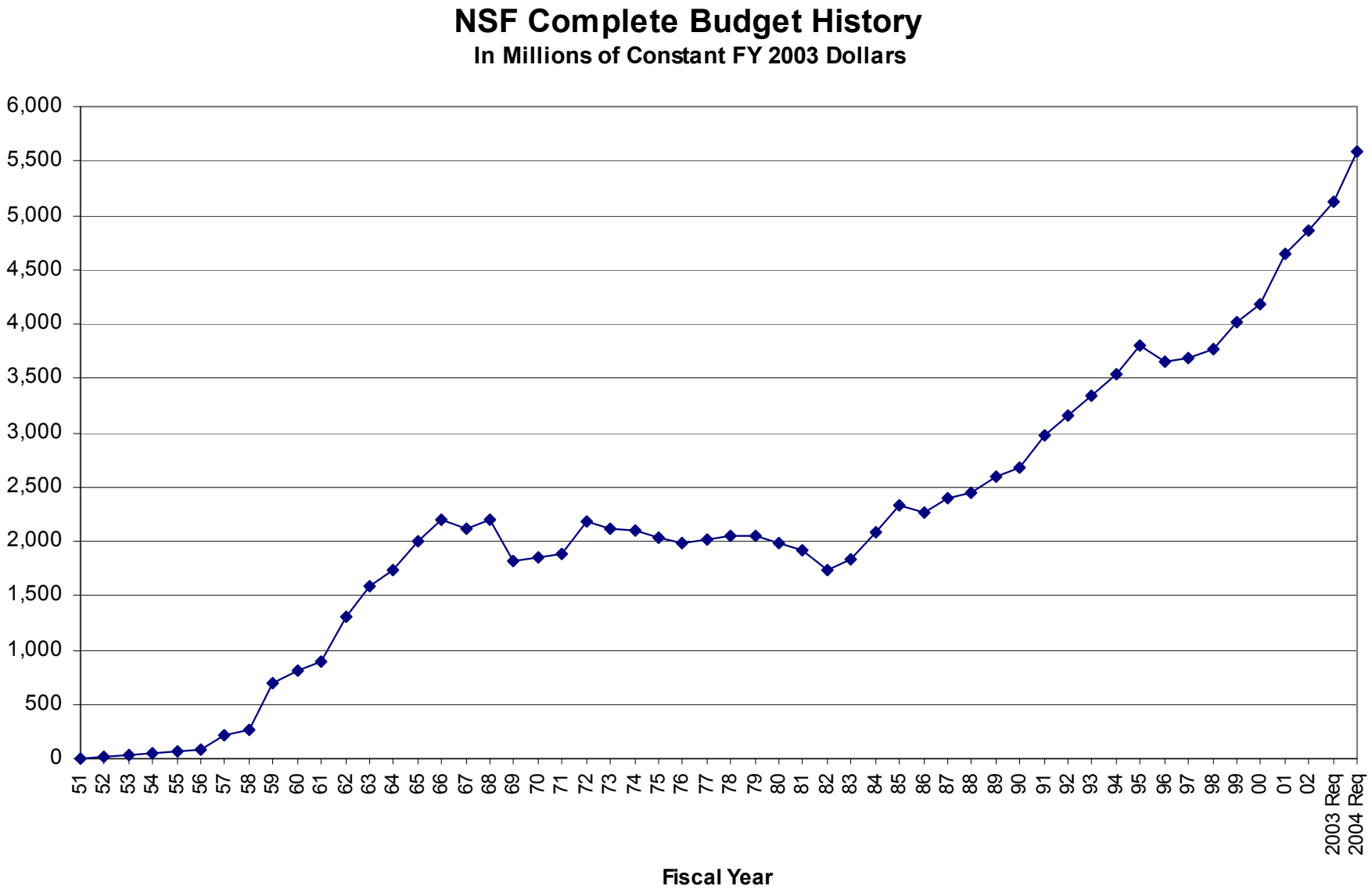
NSF Twenty Year Budget by Account

In Millions of Constant FY 2003 Dollars




NSF Twenty Year Budget History
In Millions of Constant FY 2003 Dollars
6,000
5,500
5,000
4,500
4,000
3,500
3,000
2,500
2,000
1,500
1,000
500
0
84
85
86
87
88
89
90
91
92
93
94
95
96
97
98
99
00
01
02
2003 Req
2004 Req
Fiscal Year


NSF Complete Budget History by Account
In Millions of Constant FY 2003 Dollars
$6,000
$5,000
$4,000
$3,000
$2,000
$1,000
$0
Office of Inspector General
Salaries & Expenses
Major Research Equipment & Facilities Construction
Academic Research Infrastructure
Education & Human Resources
Research & Related Activities
51 52 53 54 55 56 57 58 59 60 61 62 63 64 65 66 67 68 69 70 71 72 73 74 75 76 77 78 79 80 81 82 83 84 85 86 87 88 89 90 91 92 93 94 95 96 97 98 99 00 01 02 2003 Req 2004 Req
Fiscal Year


NSF Complete Budget History
In Millions of Constant FY 2003 Dollars
6,000
5,500
5,000
4,500
4,000
3,500
3,000
2,500
2,000
1,500
1,000
500
0
51 52 53 54 55 56 57 58 59 60 61 62 63 64 65 66 67 68 69 70 71 72 73 74 75 76 77 78 79 80 81 82 83 84 85 86 87 88 89 90 91 92 93 94 95 96 97 98 99 00 01 02 2003 Req 2004 Req
Fiscal Year

Centers Supported by NSF in FY 2002

Center	Institution	State
Engineering Research Centers		
Advanced Engineering Fibers and Films	Clemson U	SC
Bioengineering Educational Technology	Vanderbilt U	TN
Biotechnology Process Engineering	Mass Institute of Tech	MA
Computer-Integrated Surgical Systems and Technologies	Johns Hopkins U	MD
Engineered Biomaterials	U of Washington	WA
Engineering of Living Tissue	Georgia Institute of Tech	GA
Environmentally Benign Semiconductor Manufacturing	U of Arizona	AZ
Integrated Media Systems	U of Southern California	CA
Low Cost Electronic Packaging	Georgia Institute of Tech	GA
Marine Bioproducts Engineering	U of Hawaii	HI
Neuromorphic Systems Engineering	California Institute of Tech	CA
Particle Science & Technology	U of Florida	FL
Power Electronic Systems	Virginia Tech U	VA
Reconfigurable Machining Systems	U of Michigan	MI
Subsurface Sensing and Imaging Systems	Northeastern U	MA
Wireless Integrated MicroSystems	U of Michigan	MI
Engineering Research Groups		
Nano Modeling and Simulation Groups:		
Computational Nano-Engineering for Patterned Magnetic Nanostructures	Stanford U	CA
Evolution of Nanoscale Film Morphology	Kansas State U	KA
Molecular Nanoelectronics: Simulation from Molecules to Circuits	Purdue U	IN
Molecular Transport in Nanostructured Materials	U of Delaware	DE
Nanoengineered Materials: Polymer Composites to Structured Adsorbents	U of Pittsburgh	PA
Nanoscale Modeling of Flow of Macromolecules through Microfluidic Devices	U of Wisconsin-Madison	WI
Nanoscale Simulation by Quantum Computation	Mass Institute of Tech	MA
XYZ-on-a-Chip Groups:		
Assembly of Integrated Near-field Optical Microfluidic Devices by Thin-film Transfer and Micromachining of Teflon, Group-III Nitrides and Silicon	U of California-Berkeley	CA
Biomolecular Motor/Nanotube Integration for Actuator Nanotechnology	U of North Carolina-Chapel Hill	NC
Cellular Electrophysiology on a Chip	U of Missouri-Columbia	MO
Development and Fabrication of Three-Dimensional Microdevices	Boston College	MA
Large Area Biosensing Electronics	Carnegie Mellon U	PA
Micromachined Magnetically Reconfigurable Frequency Selective Surfaces	U of California-Los Angeles	CA
A Nanomaterials/Nanoelectrochemical Route for Communication Between Biochemical Processes and IC Chips	U of Florida	FL

Patterning Flow at the Microscale: Open Architecture Design for Integrated Fluidic Chips	Princeton U	NJ
UV Fluorescence/Absorption Micro-Analysis System	Texas Tech U	TX
Science and Technology Centers		
Adaptive Optics	U of California-Santa Cruz	CA
Advanced Materials for Water Purification	U of Illinois	IL
Behavioral Neuroscience	Emory U	GA
Biophotonics Science and Technology	U of California-Davis	CA
Earth Surface Dynamics	U of Minnesota	MN
Embedded Networked Sensing	U of California-Los Angeles	CA
Environmentally Responsible Solvents and Processes	U of North Carolina	NC
Integrated Space Weather Modeling	Boston U	MA
Materials and Devices for Information Technology Research	U of Washington	WA
Nanobiotechnology	Cornell U	NY
Sustainability of Semi-Arid Hydrology and Riparian Areas	U of Arizona	AZ
Industry/University Cooperative Research Centers		
Advanced Electron Devices and Systems	Texas A&M U	TX
Advanced Vehicle Electronics	Auburn U	AL
Aseptic Processing and Packaging Studies	North Carolina State U	NC
Berkeley Sensor & Actuator Center	U of California-Berkeley	CA
Biocatalysis	Polytechnic U of NY	NY
Bioinstrumentation	U of New Hampshire	NH
Biomedical Devices	Colorado School of Mines	CO
Building Environment	U of California-Berkeley	CA
Building Performance and Diagnostics	Carnegie Mellon U	PA
Center for Advanced Manufacturing & Packaging of Microwave, Optical, and Digital Electronics	U of Colorado-Boulder	CO
Center for Communications and Advanced Computing	North Carolina State U	NC
Center for Microengineered Ceramics	U of New Mexico	NM
Center for Particulate Materials	Penn State U	PA
Center for Pharmaceutical Processing Research	Purdue U	IN
Center in Ergonomics	Texas A&M U	TX
Composites	Ohio State U	OH
Computer Technology	U of California-Irvine	CA
Cooperative Research Center in Coatings	Eastern Michigan U	MI
Design of Analog-Digital Integrated Circuits	Washington State U	WA
Dielectric Studies	Pennsylvania State U	PA
Digital Video	Rensselaer Polytechnic Inst	NY
Engineering Tribology	Northwestern U	IL
Fundamentals and Applications of Photopolymerizations	U of Iowa	IA
Glass Research	Alfred U	NY
Health Management Research	U of Washington	WA
Information Management	U of Arizona	AZ
Intelligent Maintenance	U of Wisconsin-Milwaukee	MI
IUCRC for Biosurfaces	State U of New York-Buffalo	NY
Machine Tools Systems	U of Illinois	IL
Measurement and Control Engineering Center	U of Tennessee	TN
Membrane Applied Science and Technology	U of Colorado-Boulder	CO
Metrology	U of North Carolina-Charlotte	NC

Microcontamination Control	U of Arizona	AZ
Nondestructive Evaluation	Iowa State U	IA
Optical Circuitry Cooperative	U of Arizona	AZ
Photopolymerization	U of Iowa	IA
Power Systems Engineering	Cornell U	NY
Quality and Reliability	Rutgers U	NJ
Reinforcing Composites	U of Missouri-Rolla	MO
Silicon	North Carolina State U	NC
Software Engineering Research Center	Purdue U	IN
Surfactants	Columbia U	NY
Tree Genetics	Oregon State U	OR
Virtual Proving Ground	U of Iowa	IA
Water Quality	U of Arizona	AZ
Wireless Reliability	U of Oklahoma	OK
State/Industry/University Cooperative Research Centers		
Advanced Friction Studies	Southern Illinois U	IL
Industrial Sensors and Measurement	Ohio State U	OH
Low Power Electronics	U of Arizona/Arizona State U	AZ
Centers of Research Excellence in Science and Technology		
Advanced Materials and Smart Structures	North Carolina A&T U	NC
Computer Science	Jackson State U	MS
Distributed Computing Theory, Development and Applications	Florida A&M/Florida International U	FL
Environmental Science	Cal State U-Los Angeles	CA
Environmental Sustainability of Semi-Arid Coastal Areas	Texas A&M U - Kingsville	TX
Innovative Manufacturing of Advanced Materials	Tuskegee Institute	AL
Materials Science	Norfolk State U	VA
Mesoscopic Modeling and Simulation	City U of NY-City College	NY
Systems Science Research	Tennessee State U	TN
Theoretical Studies of Physical Systems	Clark Atlanta U	GA
Tropical Applied Ecology and Conservation	U of Puerto Rico-Rio Piedros	PR
Plant Genome Virtual Centers		
A Protein Interaction Database for Rice Protein Kinases	U of Nebraska-Lincoln	NE
Chromatin-based Control of Gene Expression	U of Arizona	AZ
Colinearity of Maize and Sorghum	Rutgers U	NJ
Comparative and Functional Genomics of Tomato	Cornell U	NY
Comparative Evolutionary Genomics of Cotton	Iowa State U	IA
Comparative Genomics of Disease Resistance Genes	U of California-Davis	CA
Dissecting Phytophthora Resistance in Soybean using Expression Profiling and Analysis of Quantitative Train Loci	VA Polytechnic Inst & St U	VA
Evolutionary Genomics of Maize	U of Wisconsin	WI
Functional Genomics of Hemicellulose Biosynthesis	Michigan State U	MI
Functional Genomics of Maize Centromeres	U of Georgia	GA
Gene Inventory and Function of the Model Legume	U of California-Davis	CA
Genetic, Physical and Database Resources for Maize	U of Missouri	MO
Genomics of Plant Stress Tolerance	U of Illinois	IL
Grass Genome Biodiversity	U of Georgia	GA
Identification and Characterization of Cell Wall Mutants in Maize and Arabidopsis using Novel Spectroscopies	Purdue University	IN
Integrative Functional Genomic Resource Development in	U of Nevada-Reno	NV

Vitis vinifera: Abiotic Stress and Wine Quality		
Maize Gene Discovery, Sequencing and Analysis	Stanford U	CA
Plant Genes Involved in Transformation	Purdue U	IN
Structure and Function of Wheat Genomes	U of California	CA
Systematic Transposon Mutagenesis of the Maize Gene	Cold Spring Harbor Lab	NY
The Floral Genome Project	Penn State U	PA
Tools for Potato Structural and Functional Genomics	U of California-Berkeley	CA
Materials Centers		
Advanced Carbon Materials Center	U of Kentucky	KY
Center for Complex Materials	Princeton U	NJ
Center for Materials for Information Science	U of Alabama	AL
Center for Materials Research	Cornell U	NY
Center for Materials Science and Engineering	Mass Institute of Tech	MA
Center for Micro- and Nanomechanics of Materials	Brown U	RI
Center for Nanoscopic Materials Design	U of Virginia	VA
Center for Nanomagnetic Structures	U Nebraska	NE
Center for Nanoscale Science	Pennsylvania State U	PA
Center for Nanostructured Materials	U of Wisconsin	WI
Center on Nanostructured Materials	Johns Hopkins U	MD
Center for Oxide Thin Films, Probes and Surfaces	U of Maryland	MD
Center for Polymer Science and Engineering	U of Massachusetts	MA
Center for Polymers at Engineered Interfaces	SUNY-Stony Brook/ CUNY/ Polytechnic U	NY
Center for Polymer Interfaces and Macromolecular Assemblies	Stanford U/ UC-Davis/IBM	CA
Center for Response-Driven Polymeric Films	U Southern Mississippi	MS
Center for Science and Engineering of Materials	California Institute of Tech	CA
Center for Semiconductor Physics in Nanostructures	U of Oklahoma/ U of Arkansas	OK,AR
Center for Sensor Materials	Michigan State U	MI
Center for Thermal Spray Research	SUNY-Stoney Brook	NY
Ferroelectric Liquid Crystals Materials Research Center	U of Colorado-Boulder	CO
Laboratory for Research on the Structure of Matter	U of Pennsylvania	PA
Materials Research Center	U of Chicago	IL
Materials Research Center	Harvard U	MA
Materials Research Center	Northwestern U	IL
Materials Research Science and Engineering Center	U of California-Santa Barbara	CA
Materials Research Science and Engineering Center	U of Minnesota	MN
Materials Research Science and Engineering Center	Carnegie Mellon U	PA
Center for Ecological Analysis and Synthesis	U of California-Santa Barbara	CA
Long Term Ecological Research Sites		
Arctic Tundra: Toolik Field Station	Marine Biological Lab	MA
Bonanza Creek Experimental Forest	U of Alaska	AK
Cedar Creek Natural History Area	U of Minnesota	MN
Central Arizona-Phoenix Urban LTER	Arizona State U	AZ
Coweeta Hydrologic Laboratory	U of Georgia	GA
Florida Coastal Everglades	Florida International U	FL
Georgia Coastal Ecosystems	U of Georgia	GA
H.J. Andrews Experimental Forest	Oregon State U	OR
Harvard Forest	Harvard U	MA
Hubbard Brook Experimental Forest	Syracuse U	NY

Jornada Experimental Range	Duke U	NC
Kellogg Biological Station	Michigan State U	MI
Konza Prairie Research Natural Area	Kansas State U	KA
Luquillo Experimental Forest	U of Puerto Rico-Rio Piedros	PR
McMurdo Dry Valleys, Antarctica	Desert Research Institute	NV
Metropolitan Baltimore Urban LTER	Institute of Ecosystem Studies	MD
Niwot Ridge-Green Lakes Valley	U of Colorado	CO
North Temperate Lakes	U of Wisconsin	WI
Palmer Station, Antarctica	U of California	CA
Plum Island Sound	Woods Hole	MA
Santa Barbara Coastal LTER	U of California-Santa Barbara	CA
Sevilleta National Wildlife Refuge	U of New Mexico	NM
Shortgrass Steppe	Colorado State U	CO
Virginia Coast Reserve	U of Virginia	VA
Earthquake Engineering Research Centers		
Mid-America Earthquake Center	U of Illinois-Champaign-Urbana	IL
Multidisciplinary Center for Earthquake Engineering Research	State U of NY-Buffalo	NY
Pacific Earthquake Engineering Research Center	U of California-Berkeley	CA
Chemistry Centers		
Chemical and Microbial Interactions at Environmental Interfaces	Stanford U	CA
Chemical Sources and Sinks at Liquid/Solid Interfaces	Columbia U	NY
Environmental Redox-Mediated Dehalogenation Chemistry	Johns Hopkins U	MD
Fundamental Studies of Nonparticle Formation in Air Pollution	Worcester Polytechnic Inst	MA
Institute for Environmental Bioinorganic Chemistry	Princeton U	NJ
Institute for Environmental Catalysis	Northwestern U	IL
Laboratory for Molecular Sciences	California Institute of Tech	CA
Molecular Environmental Chemistry of Mn Oxide Biomineralization	U of California-San Diego	CA
Molecular Isotopic Tools for Environmental Research	Woods Hole	MA
Molecular Level Analysis of Macromolecule-Surface Interactions in Bacterial Adhesion	Penn State U	PA
Molecular Structure and Microstructure of PM2.5 Derived from Stationary and Mobile Fossil Fuel Sources	U of Kentucky	KY
Role of Environmental Molecular Interfaces on the Chemical and Biological Reactivity of Pollutants	Ohio State U	OH
Moderate Resolution Protein Structures by Chemical Cross-Linking and Mass Spectrometry	U of California-San Francisco	CA
Center for Environmental Molecular Science (CEMS)	SUNY-Stony Brook	NY
Role of Environmental Molecular Interfaces on the Chemical and Biological Reactivity of Pollutants	Ohio State U	OH
Actinides and Heavy Metals in the Environment - The Formation, Stability, and Impact of Nano- and Micro-Particles	U of Notre Dame	IN
Atom and Group Transfer Reactions: A Combined Synthetic, Structural, Theoretical, Kinetic, and Solution	Mass Institute of Tech	MA

Calorimetry Investigation		
Next Generation Aromatics	U of Georgia	GA
Multi-dimensional Molecular Metals, Crystal Design, and Superconductivity	Cornell U	NY
An Integrated Approach to Understanding the Air-Water Interface in Atmospherically Relevant Systems	U of California-Irvine	CA
Micro Imaging for Sensory and Materials Applications	Mass Institute of Tech	MA
Mathematical Sciences Research Institutes		
American Institute of Mathematics	Palo Alto	CA
Institute for Mathematics and Its Applications	U of Minnesota	MN
Institute for Pure and Applied Mathematics	U of California-LA	CA
Mathematical Biosciences Institute	Ohio State U	OH
Mathematical Sciences Research Institute	Berkeley	CA
Statistical and Applied Mathematical Sciences Institute	Duke U	NC
Information Technology Centers		
A Mobile Sensor Web for Polar Ice Sheet Measurements	U of Kansas	KS
Active Information Spaces Based on Ubiquitous Computing	U of Illinois-Champaign-Urbana	IL
Adaptable Voice Translation for Minority Languages	Carnegie Mellon U	PA
Adaptive Software for Field-driven Simulations	Cornell U-Endowed	NY
An Ensemble Approach to Data Assimilation in the Earth Sciences	Mass Institute of Tech	MA
An International Virtual-Data Grid Laboratory for Data Intensive Science	U of Florida	FL
Building the Framework of the National Virtual Observatory	Johns Hopkins U	MD
Capturing, Coordinating and Remembering Human Experience	Carnegie Mellon U	PA
Center for Applied Algorithms	Carnegie Mellon U	PA
Center for Bits and Atoms	Mass Institute of Tech	MA
Center for Computational Biophysics	U of California - San Diego	CA
Cognitive and Social Design of Robotic Assistants	Carnegie Mellon U	PA
Collaborative Research: Modular Ocean Data Assimilation	Oregon State U	OR
Computational Geometry for Structural Biology and Bioinformatics	Duke U	NC
Computational Infrastructure for Microfluidic Systems with Applications to Biotechnology	U of California-Santa Barbara	CA
Computational Learning and Discovery in Biological Sequence, Structure and Function Mapping	Carnegie Mellon U	PA
Computational Logic Tools for Research and Education	Stanford U	CA
Computational Tools for Modeling, Visualizing and Analyzing Historic and Archaeological Sites	Columbia U	NY
Creating the Next Generation of Intelligent Animated Conversational Agents	U of Colorado-Boulder	CO
Data Centers - Managing Data with Profiles	Brown U	RI
Design and Simulation of Biologically-inspired Nanolattice	U of Florida	FL
Design Conformant Software	Mass Institute of Tech	MA
Digital Clay for Shape Input and Display	GA Tech Res Corp-GIT	GA
Discrete Models & Algorithms in the Sciences	U of California-Berkeley	CA
Dynamic Cooperative Performance Optimization	U of Massachusetts-Amherst	MA

Enabling the Science Environment for Ecological Knowledge	U of New Mexico	NM
Flexible Environments for Grand-Challenge Climate Simulation	U of Chicago	IL
Foundations of Hybrid and Embedded Software Systems	U of California - Berkeley	CA
Foundations of Solid-State Quantum Information Processing	U of Urbana-Champaign	IL
FrameNet++: An On-Line Lexical Semantic Resource and its Application to Speech & Language Understanding	Int'l Computer Sci Inst	CA
From Bits to Information: Statistical Learning Technologies for Digital Information Management and Search	Mass Institute of Tech	MA
From the Web to the Global InfoBase	Stanford U	CA
The GriPhyN Project: Towards Peta-Scale Virtual Data Grids	U of Florida	FL
Heterogeneous System Integration in System-on-a-Chip Designs	U of Washington	WA
Hierarchical and Reconfigurable Schemes for Distributed Control over Heterogeneous Network	U of Illinois-Champaign-Urbana	IL
High-Speed Wavelength-Agile Optical Networks	U of Urbana-Champaign	IL
Institute for Quantum Information	California Institute of Tech	CA
Interacting with the Visual World: Capturing, Understanding, and Predicting Appearance	Columbia U	NY
Interaction and Participation in Integrated Land Use, Transportation, and Environmental Modeling	U of Washington	WA
Investigation of a Model for Online Resource Creation and Sharing in Educational Settings	Michigan State U	MI
Latent Semantic Analysis: Theory and Technology	U of Colorado-Boulder	CO
Learning-Centered Design Methodology: Meeting the Nation's Need for Computational Tools for K-12 Science Education	U of Michigan-Ann Arbor	MI
Low Frequency Array (LOFAR) - A Digital Radio Telescope	Northeast Radio Obs Corp	MA
Methodologies and Tools for Designing and Implementing Large Scale Real-Time Systems	Vanderbilt U	TN
Molecular Computation in Ciliates	Princeton U	NJ
Multilingual Access to Large Spoken Archives	Suv of the Shoah Vis His F	CA
Multimodal Human Computer Interaction: Toward a Proactive Computer	U of Illinois-Champaign-Urbana	IL
A Multiresolution Analysis for the Global Internet	U of Wisconsin-Madison	WI
New Approached to Human Capital Development through Information Technology Research	Northeastern U	MA
The Open Source Quality Project	U of California-Berkeley	CA
Personalized Spatial Audio via Scientific Computing and Computer Vision	U of Maryland-College Park	MD
A Petabyte in Your Pocket	U of Wisconsin-Madison	WI
Procedural Representation and Visualization Enabling Personalized Computational Fluid Dynamics	Purdue U	IN
Quality-Scalable Information Flow Systems for Environmental Observation and Forecasting	Oregon Health Sciences U	OR
Quantum Computing using Electrons on Helium Films	Case Western Reserve U	OH
Real-Time Long-Distance Terascale Computation for	U of North Carolina-Chapel Hill	NC

Full Bandwidth Tele-Immersion		
A Research Project to Create Cyberinfrastructure for the Geosciences	U of California - San Diego	CA
Responsive Virtual Human Technology Research	Research Triangle Inst	NC
Robust Large-Scale Distributed Systems	MIT	MA
Self-Assembly of DNA Nano-Scale Structures for Computation	Duke U	NC
Simulation of Flows with Dynamic Interfaces on Multi-Teraflop Computers	Carnegie-Mellon U	PA
Social and Economic Implications of IT: What is Really Happening?	Mass Institute of Tech	MA
Societal Scale Information Systems: Technologies, Design and Applications	U of California-Berkeley	CA
Statistical Data Mining for Cosmology	Carnegie Mellon U	PA
Sustainable and Generalizable Technologies to Support Collaboration in Science	U of Michigan-Ann Arbor	MI
Taming the Data Flood: Systems that Evolve, are Available, and Maintainable (SEAM)	U of California-Berkeley	CA
The Impacts of IT on Individuals and Their Organizations: Conditions of Change and Transformation.	U of California-Irvine	CA
The OptIPuter	U of California - San Diego	CA
The SCEC Community Modeling Environment: An Information Infrastructure for System-Level Earthquake Research	U of Southern California	CA
The System Architecture of a Computing Utility	Stanford U	CA
Understanding the Social Impact of the Internet: A Multifaceted Multidisciplinary Approach	U of Maryland-College Park	MD
Virtual Instruments: Scalable Software Instruments for the Grid	U of California-San Diego	CA
Visualization of Multi-Valued Scientific Data: Applying Ideas from Art and Perceptual Psychology	Brown U	RI
Nanoscale Science and Engineering Centers		
Integrated Nanopatterning and Detection Technologies	Northwestern U	IL
Nanoscale Systems in Information Technologies	Cornell U	NY
Science of Nanoscale Systems and their Device Applications	Harvard U	MA
Electronic Transport in Molecular Nanostructures	Columbia U	NY
Nanoscience in Biological and Environmental Engineering	William Marsh Rice U	TX
Directed Assembly of Nanostructures	Rensselaer Polytechnic Inst	NY
Physics Frontiers Centers		
Center for Cosmological Physics	U of Chicago	IL
Center for Gravitational-Wave Phenomenology	Pennsylvania State U	PA
Frontiers of Optical, Coherent Ultrafast Science	U of Michigan	MI
Center for the Study of the Origin and Structure of Matter	Hampton U	VA
Center for Theoretical Biological Physics	U of California-San Diego	CA
Research Centers on the Human Dimensions of Global Change		
Center for Integrated Study of the Human Dimensions of Global Change	Carnegie Mellon U	PA
Center for the Study of Institutions, Population, and Environmental Change	Indiana U	IN

National Consortium for Violence Research	Carnegie Mellon U	PA
Children's Research Centers		
Children's Digital Media Center	Georgetown U	DC
North Carolina Child Development Research Collaborative	U of North Carolina	NC
Cornell Center for Research on Children	Cornell U	NY
Center for Research on Culture, Development and Education	New York University	NY