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**Federal obligations for basic research, by detailed field of science and engineering: FYs 2003–13**

(Dollars in millions)

Field	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013
All fields	24,751	26,121	27,140	26,585	26,866	27,154	32,879	31,795	29,314	30,959	29,779
Computer sciences and mathematics	1,120	1,239	1,228	1,208	1,294	1,407	1,861	1,663	1,788	1,795	1,691
Computer sciences	730	712	658	671	708	734	978	874	936	922	860
Mathematics	360	479	543	519	561	645	804	717	741	806	757
Other computer sciences and mathematics	30	48	28	19	24	29	79	73	111	66	73
Engineering	1,913	2,272	2,300	2,365	2,630	2,736	3,406	3,491	3,168	3,459	3,408
Aeronautical engineering	256	304	318	243	195	150	185	151	153	402	409
Astronautical engineering	59	67	73	58	44	32	35	32	33	79	85
Chemical engineering	72	69	67	68	109	112	168	143	183	94	84
Civil engineering	51	56	62	67	124	126	186	155	149	35	28
Electrical engineering	226	200	213	205	246	221	297	295	281	299	259
Mechanical engineering	96	90	77	70	78	66	84	80	82	156	147
Metallurgy and materials engineering	581	592	666	811	960	993	1,113	1,091	1,077	1,186	1,201
Other engineering	572	895	826	842	875	1,036	1,338	1,544	1,209	1,207	1,194
Environmental sciences	1,900	2,023	1,966	1,849	1,728	1,593	2,143	1,787	1,796	2,259	2,396
Atmospheric sciences	668	727	744	666	584	523	650	597	612	952	995
Geological sciences	462	482	470	445	427	303	430	333	396	502	411
Oceanography	442	453	431	416	437	434	549	472	483	494	457
Other environmental sciences	327	362	321	322	280	333	514	386	305	310	533
Life sciences	14,765	14,490	15,248	14,934	15,643	15,557	17,587	17,748	15,373	16,016	15,317
Agricultural sciences	528	504	511	514	533	495	531	571	547	480	462
Biological sciences (excluding environmental biology)	10,471	7,223	7,608	7,700	8,076	8,259	9,600	9,417	8,277	8,317	7,919
Environmental biology	324	329	339	344	351	368	467	435	435	407	384
Medical sciences	2,919	5,477	5,703	5,454	5,504	5,314	5,748	5,787	5,086	5,528	5,326
Other life sciences	522	957	1,087	922	1,180	1,122	1,241	1,537	1,029	1,283	1,226
Physical sciences	3,454	3,663	3,739	3,516	3,544	3,403	4,121	3,984	3,815	4,557	4,432
Astronomy	696	765	778	687	593	483	618	504	499	925	974
Chemistry	749	776	764	721	733	726	835	828	774	776	715
Physics	1,821	1,905	1,996	1,911	2,012	1,987	2,370	2,377	2,275	2,568	2,469
Other physical sciences	189	217	200	197	207	208	298	275	267	287	275
Psychology	544	979	1,040	945	979	936	1,100	1,129	979	1,088	1,016
Biological aspects	11	1	*	1	1	1	2	10	13	13	14
Social aspects	4	5	4	5	5	7	19	18	17	13	16
Other psychological sciences	529	973	1,035	939	972	929	1,080	1,101	949	1,061	986
Social sciences	353	419	391	381	361	330	432	359	371	381	374
Anthropology	13	13	15	14	15	15	28	24	26	27	24
Economics	48	48	51	46	52	44	52	44	54	55	58
Political science	6	7	11	11	9	16	13	10	9	10	9
Sociology	49	49	18	19	41	14	33	30	36	39	24
Other social sciences	237	303	296	290	244	241	306	251	246	251	258
Other sciences nec	703	1,036	1,228	1,386	686	1,191	2,228	1,633	2,023	1,405	1,146

\* = amount greater than \$0 but less than \$500,000.

nec = not elsewhere classified.

**Note(s):**

Because of rounding, detail may not add to total. FYs 2009 and 2010 obligations include additional funding provided by the American Recovery and Reinvestment Act of 2009.

**Source(s):**

National Center for Science and Engineering Statistics, Survey of Federal Funds for Research and Development.