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Federal obligations for applied 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	26,320	27,237	26,598	26,951	27,228	26,740	30,813	31,933	28,751	31,027	29,753
Computer sciences and mathematics	1,552	1,710	1,755	1,607	1,652	1,640	1,750	1,749	1,586	1,733	1,736
Computer sciences	1,322	1,433	1,499	1,317	1,369	1,319	1,444	1,488	1,255	1,470	1,502
Mathematics	93	139	144	151	148	138	124	119	150	119	107
Other computer sciences and mathematics	137	139	112	139	135	183	183	141	180	144	128
Engineering	6,492	6,595	6,252	6,314	6,360	6,239	6,879	7,590	6,889	7,944	7,541
Aeronautical engineering	1,476	1,337	959	987	734	661	722	679	692	1,413	1,433
Astronautical engineering	643	598	421	419	297	256	335	358	377	611	652
Chemical engineering	256	250	217	227	245	234	279	367	292	255	335
Civil engineering	289	275	217	285	338	362	493	545	468	478	419
Electrical engineering	724	691	821	830	781	825	957	1,066	954	1,026	904
Mechanical engineering	202	212	247	228	260	227	230	283	228	216	402
Metallurgy and materials engineering	503	445	518	439	520	631	609	667	544	513	528
Other engineering	2,399	2,787	2,853	2,900	3,185	3,045	3,253	3,625	3,334	3,432	2,868
Environmental sciences	1,841	1,719	1,536	1,581	1,443	1,392	1,608	1,551	1,411	1,626	1,645
Atmospheric sciences	591	533	442	501	381	361	368	357	341	517	548
Geological sciences	263	222	203	209	211	215	324	198	201	224	215
Oceanography	404	356	340	329	351	355	285	272	241	319	331
Other environmental sciences	583	607	551	542	500	461	631	725	627	565	551
Life sciences	13,007	13,239	12,880	12,993	13,820	13,361	15,680	16,161	14,076	14,990	14,345
Agricultural sciences	518	583	583	594	606	526	589	560	538	462	441
Biological sciences (excluding environmental biology)	8,172	5,869	5,744	5,991	6,354	6,184	7,777	7,796	6,901	7,141	6,669
Environmental biology	394	341	360	342	406	490	497	381	420	390	398
Medical sciences	3,241	5,422	5,159	5,138	5,287	5,073	5,645	5,890	5,117	5,551	5,591
Other life sciences	682	1,024	1,034	928	1,166	1,089	1,172	1,533	1,100	1,447	1,246
Physical sciences	1,568	1,549	1,755	1,836	1,592	1,669	1,700	1,887	1,612	1,851	1,850
Astronomy	176	155	107	106	63	45	54	56	57	174	173
Chemistry	389	415	434	406	417	423	439	483	332	327	267
Physics	680	694	1,045	1,091	927	982	986	1,093	994	1,140	1,013
Other physical sciences	323	284	170	233	184	219	222	255	229	209	396
Psychology	561	876	852	802	859	805	986	1,026	908	999	919
Biological aspects	13	5	2	2	2	21	*	4	3	1	*
Social aspects	46	47	42	36	31	12	32	56	38	48	48
Other psychological sciences	501	824	807	764	825	771	953	967	867	949	870
Social sciences	673	670	706	743	786	647	725	838	891	743	863
Anthropology	2	2	3	1	1	2	2	*	*	3	2
Economics	186	157	165	156	198	169	178	230	344	289	275
Political science	13	12	22	34	33	13	12	5	3	3	2
Sociology	76	72	52	125	177	81	106	103	97	116	113
Other social sciences	397	428	464	427	378	382	428	501	447	332	472
Other sciences nec	627	880	861	1,075	717	986	1,485	1,130	1,378	1,142	853

* = 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.