

**Table 94. Federal obligations for applied research, by detailed field of science and engineering: FYs 2005–15**

(Dollars in millions)

Field	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015
All fields	26,598	26,951	27,228	26,740	30,813	31,933	28,751	31,027	29,753	31,604	32,298
Computer sciences and mathematics	1,755	1,607	1,652	1,640	1,750	1,749	1,586	1,733	1,736	1,965	1,878
Computer sciences	1,499	1,317	1,369	1,319	1,444	1,488	1,255	1,470	1,502	1,654	1,621
Mathematics	144	151	148	138	124	119	150	119	107	155	132
Other computer sciences and mathematics	112	139	135	183	183	141	180	144	128	157	125
Engineering	6,252	6,314	6,360	6,239	6,879	7,590	6,889	7,944	7,541	8,343	8,290
Aeronautical engineering	959	987	734	661	722	679	692	1,413	1,433	1,386	1,356
Astronautical engineering	421	419	297	256	335	358	377	611	652	576	562
Chemical engineering	217	227	245	234	279	367	292	255	335	432	314
Civil engineering	217	285	338	362	493	545	468	478	419	417	403
Electrical engineering	821	830	781	825	957	1,066	954	1,026	904	992	669
Mechanical engineering	247	228	260	227	230	283	228	216	402	374	198
Metallurgy and materials engineering	518	439	520	631	609	667	544	513	528	536	467
Other engineering	2,853	2,900	3,185	3,045	3,253	3,625	3,334	3,432	2,868	3,629	4,320
Environmental sciences	1,536	1,581	1,443	1,392	1,608	1,551	1,411	1,626	1,645	1,613	1,675
Atmospheric sciences	442	501	381	361	368	357	341	517	548	531	516
Geological sciences	203	209	211	215	324	198	201	224	215	143	211
Oceanography	340	329	351	355	285	272	241	319	331	365	294
Other environmental sciences	551	542	500	461	631	725	627	565	551	573	654
Life sciences	12,880	12,993	13,820	13,361	15,680	16,161	14,076	14,990	14,345	14,932	15,415
Agricultural sciences	583	594	606	526	589	560	538	462	441	491	766
Biological sciences (excluding environmental biology)	5,744	5,991	6,354	6,184	7,777	7,796	6,901	7,141	6,669	7,027	7,081
Environmental biology	360	342	406	490	497	381	420	390	398	426	420
Medical sciences	5,159	5,138	5,287	5,073	5,645	5,890	5,117	5,551	5,591	5,721	5,816
Other life sciences	1,034	928	1,166	1,089	1,172	1,533	1,100	1,447	1,246	1,267	1,331
Physical sciences	1,755	1,836	1,592	1,669	1,700	1,887	1,612	1,851	1,850	1,846	1,889
Astronomy	107	106	63	45	54	56	57	174	173	156	157
Chemistry	434	406	417	423	439	483	332	327	267	291	295
Physics	1,045	1,091	927	982	986	1,093	994	1,140	1,013	989	471
Other physical sciences	170	233	184	219	222	255	229	209	396	410	966
Psychology	852	802	859	805	986	1,026	908	999	919	930	995
Biological aspects	2	2	2	21	*	4	3	1	*	1	5
Social aspects	42	36	31	12	32	56	38	48	48	46	45
Other psychological sciences	807	764	825	771	953	967	867	949	870	883	945
Social sciences	706	743	786	647	725	838	891	743	863	1,049	792
Anthropology	3	1	1	2	2	*	*	3	2	2	2
Economics	165	156	198	169	178	230	344	289	275	286	290
Political science	22	34	33	13	12	5	3	3	2	1	4

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(Dollars in millions)

Field	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015
Sociology	52	125	177	81	106	103	97	116	113	127	102
Other social sciences	464	427	378	382	428	501	447	332	472	632	395
Other sciences nec	861	1,075	717	986	1,485	1,130	1,378	1,142	853	925	1,364

\* = 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.