

TABLE 94

Federal obligations for applied research, by detailed field of science and engineering: FYs 2004–14

(Dollars in millions)

Field	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014
All fields	27,237	26,598	26,951	27,228	26,740	30,813	31,933	28,751	31,027	29,753	31,604
Computer sciences and mathematics	1,710	1,755	1,607	1,652	1,640	1,750	1,749	1,586	1,733	1,736	1,965
Computer sciences	1,433	1,499	1,317	1,369	1,319	1,444	1,488	1,255	1,470	1,502	1,654
Mathematics	139	144	151	148	138	124	119	150	119	107	155
Other computer sciences and mathematics	139	112	139	135	183	183	141	180	144	128	157
Engineering	6,595	6,252	6,314	6,360	6,239	6,879	7,590	6,889	7,944	7,541	8,343
Aeronautical engineering	1,337	959	987	734	661	722	679	692	1,413	1,433	1,386
Astronautical engineering	598	421	419	297	256	335	358	377	611	652	576
Chemical engineering	250	217	227	245	234	279	367	292	255	335	432
Civil engineering	275	217	285	338	362	493	545	468	478	419	417
Electrical engineering	691	821	830	781	825	957	1,066	954	1,026	904	992
Mechanical engineering	212	247	228	260	227	230	283	228	216	402	374
Metallurgy and materials engineering	445	518	439	520	631	609	667	544	513	528	536
Other engineering	2,787	2,853	2,900	3,185	3,045	3,253	3,625	3,334	3,432	2,868	3,629
Environmental sciences	1,719	1,536	1,581	1,443	1,392	1,608	1,551	1,411	1,626	1,645	1,613
Atmospheric sciences	533	442	501	381	361	368	357	341	517	548	531
Geological sciences	222	203	209	211	215	324	198	201	224	215	143
Oceanography	356	340	329	351	355	285	272	241	319	331	365
Other environmental sciences	607	551	542	500	461	631	725	627	565	551	573
Life sciences	13,239	12,880	12,993	13,820	13,361	15,680	16,161	14,076	14,990	14,345	14,932
Agricultural sciences	583	583	594	606	526	589	560	538	462	441	491
Biological sciences (excluding environmental biology)	5,869	5,744	5,991	6,354	6,184	7,777	7,796	6,901	7,141	6,669	7,027
Environmental biology	341	360	342	406	490	497	381	420	390	398	426
Medical sciences	5,422	5,159	5,138	5,287	5,073	5,645	5,890	5,117	5,551	5,591	5,721
Other life sciences	1,024	1,034	928	1,166	1,089	1,172	1,533	1,100	1,447	1,246	1,267
Physical sciences	1,549	1,755	1,836	1,592	1,669	1,700	1,887	1,612	1,851	1,850	1,846
Astronomy	155	107	106	63	45	54	56	57	174	173	156
Chemistry	415	434	406	417	423	439	483	332	327	267	291
Physics	694	1,045	1,091	927	982	986	1,093	994	1,140	1,013	989
Other physical sciences	284	170	233	184	219	222	255	229	209	396	410
Psychology	876	852	802	859	805	986	1,026	908	999	919	930
Biological aspects	5	2	2	2	21	*	4	3	1	*	1
Social aspects	47	42	36	31	12	32	56	38	48	48	46
Other psychological sciences	824	807	764	825	771	953	967	867	949	870	883
Social sciences	670	706	743	786	647	725	838	891	743	863	1,049
Anthropology	2	3	1	1	2	2	*	*	3	2	2

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Economics	157	165	156	198	169	178	230	344	289	275	286
Political science	12	22	34	33	13	12	5	3	3	2	1
Sociology	72	52	125	177	81	106	103	97	116	113	127
Other social sciences	428	464	427	378	382	428	501	447	332	472	632
Other sciences nec	880	861	1,075	717	986	1,485	1,130	1,378	1,142	853	925

* = 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.