

**Table 90. Federal obligations for 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	53,738	53,536	54,094	53,894	63,692	63,728	58,065	61,986	59,533	63,191	63,825
Computer sciences and mathematics	2,983	2,815	2,946	3,047	3,612	3,412	3,374	3,528	3,427	3,883	3,863
Computer sciences	2,157	1,988	2,078	2,053	2,422	2,362	2,192	2,392	2,362	2,613	2,646
Mathematics	687	669	709	783	928	835	892	925	864	979	1,006
Other computer sciences and mathematics	140	158	159	211	262	214	291	210	201	291	211
Engineering	8,553	8,679	8,990	8,976	10,285	11,081	10,057	11,403	10,948	11,888	11,984
Aeronautical engineering	1,276	1,229	929	810	908	830	845	1,815	1,842	1,833	1,825
Astronautical engineering	494	476	341	288	370	390	410	690	737	669	661
Chemical engineering	284	295	354	346	447	510	475	350	419	535	375
Civil engineering	279	353	462	488	679	700	617	514	447	445	458
Electrical engineering	1,033	1,035	1,027	1,046	1,254	1,361	1,235	1,325	1,163	1,240	897
Mechanical engineering	324	298	337	292	314	364	310	372	549	503	324
Metallurgy and materials engineering	1,184	1,250	1,480	1,624	1,722	1,759	1,621	1,699	1,729	1,769	1,757
Other engineering	3,678	3,742	4,060	4,081	4,591	5,168	4,544	4,639	4,062	4,894	5,688
Environmental sciences	3,503	3,431	3,170	2,985	3,751	3,339	3,207	3,884	4,041	4,366	4,414
Atmospheric sciences	1,185	1,167	965	884	1,018	954	954	1,469	1,542	1,567	1,568
Geological sciences	674	654	638	517	754	530	598	726	627	561	643
Oceanography	772	746	788	789	834	744	724	814	788	848	726
Other environmental sciences	872	864	780	794	1,145	1,111	932	876	1,084	1,389	1,477
Life sciences	28,128	27,928	29,464	28,919	33,267	33,909	29,450	31,006	29,663	30,951	30,625
Agricultural sciences	1,094	1,108	1,139	1,020	1,120	1,132	1,085	943	903	1,004	1,320
Biological sciences (excluding environmental biology)	13,352	13,691	14,430	14,443	17,377	17,214	15,178	15,458	14,588	15,311	14,840
Environmental biology	699	687	757	858	964	816	855	797	782	821	819
Medical sciences	10,862	10,592	10,791	10,387	11,393	11,677	10,202	11,078	10,917	11,285	11,087
Other life sciences	2,121	1,850	2,347	2,210	2,414	3,070	2,129	2,730	2,472	2,530	2,559
Physical sciences	5,494	5,351	5,136	5,073	5,821	5,871	5,427	6,408	6,282	6,483	6,510
Astronomy	885	792	656	528	672	560	555	1,099	1,147	1,192	1,230
Chemistry	1,198	1,126	1,150	1,148	1,274	1,311	1,106	1,103	982	1,013	968
Physics	3,041	3,002	2,939	2,969	3,356	3,470	3,269	3,708	3,482	3,565	3,040
Other physical sciences	370	430	391	427	520	530	496	497	671	714	1,272
Psychology	1,892	1,747	1,838	1,741	2,086	2,156	1,887	2,087	1,935	1,968	1,995
Biological aspects	2	3	4	22	2	14	16	14	14	15	19
Social aspects	47	41	37	19	51	75	54	62	65	59	59
Other psychological sciences	1,843	1,703	1,797	1,700	2,033	2,067	1,816	2,011	1,856	1,894	1,917
Social sciences	1,097	1,124	1,147	977	1,157	1,197	1,262	1,125	1,237	1,435	1,136
Anthropology	18	15	16	17	29	25	26	30	26	26	30
Economics	216	203	250	212	230	274	399	344	333	344	337
Political science	33	45	41	29	25	14	12	13	11	13	16

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(Dollars in millions)

Field	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015
Sociology	70	144	218	95	139	132	133	155	137	158	128
Other social sciences	760	717	622	623	734	752	693	583	730	893	625
Other sciences nec	2,089	2,461	1,403	2,177	3,713	2,763	3,401	2,546	1,999	2,218	3,299

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.