

TABLE 90

Federal obligations for 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	53,358	53,738	53,536	54,094	53,894	63,692	63,728	58,065	61,986	59,533	63,191
Computer sciences and mathematics	2,949	2,983	2,815	2,946	3,047	3,612	3,412	3,374	3,528	3,427	3,883
Computer sciences	2,145	2,157	1,988	2,078	2,053	2,422	2,362	2,192	2,392	2,362	2,613
Mathematics	618	687	669	709	783	928	835	892	925	864	979
Other computer sciences and mathematics	187	140	158	159	211	262	214	291	210	201	291
Engineering	8,866	8,553	8,679	8,990	8,976	10,285	11,081	10,057	11,403	10,948	11,888
Aeronautical engineering	1,641	1,276	1,229	929	810	908	830	845	1,815	1,842	1,833
Astronautical engineering	665	494	476	341	288	370	390	410	690	737	669
Chemical engineering	319	284	295	354	346	447	510	475	350	419	535
Civil engineering	330	279	353	462	488	679	700	617	514	447	445
Electrical engineering	891	1,033	1,035	1,027	1,046	1,254	1,361	1,235	1,325	1,163	1,240
Mechanical engineering	302	324	298	337	292	314	364	310	372	549	503
Metallurgy and materials engineering	1,037	1,184	1,250	1,480	1,624	1,722	1,759	1,621	1,699	1,729	1,769
Other engineering	3,682	3,678	3,742	4,060	4,081	4,591	5,168	4,544	4,639	4,062	4,894
Environmental sciences	3,742	3,503	3,431	3,170	2,985	3,751	3,339	3,207	3,884	4,041	4,366
Atmospheric sciences	1,260	1,185	1,167	965	884	1,018	954	954	1,469	1,542	1,567
Geological sciences	704	674	654	638	517	754	530	598	726	627	561
Oceanography	809	772	746	788	789	834	744	724	814	788	848
Other environmental sciences	968	872	864	780	794	1,145	1,111	932	876	1,084	1,389
Life sciences	27,728	28,128	27,928	29,464	28,919	33,267	33,909	29,450	31,006	29,663	30,951
Agricultural sciences	1,087	1,094	1,108	1,139	1,020	1,120	1,132	1,085	943	903	1,004
Biological sciences (excluding environmental biology)	13,092	13,352	13,691	14,430	14,443	17,377	17,214	15,178	15,458	14,588	15,311
Environmental biology	670	699	687	757	858	964	816	855	797	782	821
Medical sciences	10,899	10,862	10,592	10,791	10,387	11,393	11,677	10,202	11,078	10,917	11,285
Other life sciences	1,981	2,121	1,850	2,347	2,210	2,414	3,070	2,129	2,730	2,472	2,530
Physical sciences	5,211	5,494	5,351	5,136	5,073	5,821	5,871	5,427	6,408	6,282	6,483
Astronomy	921	885	792	656	528	672	560	555	1,099	1,147	1,192
Chemistry	1,191	1,198	1,126	1,150	1,148	1,274	1,311	1,106	1,103	982	1,013
Physics	2,599	3,041	3,002	2,939	2,969	3,356	3,470	3,269	3,708	3,482	3,565
Other physical sciences	501	370	430	391	427	520	530	496	497	671	714
Psychology	1,855	1,892	1,747	1,838	1,741	2,086	2,156	1,887	2,087	1,935	1,968
Biological aspects	6	2	3	4	22	2	14	16	14	14	15
Social aspects	52	47	41	37	19	51	75	54	62	65	59
Other psychological sciences	1,797	1,843	1,703	1,797	1,700	2,033	2,067	1,816	2,011	1,856	1,894
Social sciences	1,090	1,097	1,124	1,147	977	1,157	1,197	1,262	1,125	1,237	1,435
Anthropology	15	18	15	16	17	29	25	26	30	26	26

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Economics	205	216	203	250	212	230	274	399	344	333	344
Political science	19	33	45	41	29	25	14	12	13	11	13
Sociology	120	70	144	218	95	139	132	133	155	137	158
Other social sciences	731	760	717	622	623	734	752	693	583	730	893
Other sciences nec	1,916	2,089	2,461	1,403	2,177	3,713	2,763	3,401	2,546	1,999	2,218

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.