

TABLE 90

Federal obligations for research, by detailed field of science and engineering: FYs 2002–12

(Dollars in millions)

Field	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012
All fields	48,007	51,072	53,358	53,738	53,536	54,094	53,894	63,692	63,728	58,065	61,986
Computer sciences and mathematics	2,631	2,672	2,949	2,983	2,815	2,946	3,047	3,612	3,412	3,374	3,528
Computer sciences	2,043	2,053	2,145	2,157	1,988	2,078	2,053	2,422	2,362	2,192	2,392
Mathematics	402	453	618	687	669	709	783	928	835	892	925
Other computer sciences and mathematics	185	167	187	140	158	159	211	262	214	291	210
Engineering	8,275	8,405	8,866	8,553	8,679	8,990	8,976	10,285	11,081	10,057	11,403
Aeronautical engineering	2,157	1,732	1,641	1,276	1,229	929	810	908	830	845	1,815
Astronautical engineering	761	702	665	494	476	341	288	370	390	410	690
Chemical engineering	202	328	319	284	295	354	346	447	510	475	350
Civil engineering	303	340	330	279	353	462	488	679	700	617	514
Electrical engineering	809	950	891	1,033	1,035	1,027	1,046	1,254	1,361	1,235	1,325
Mechanical engineering	266	298	302	324	298	337	292	314	364	310	372
Metallurgy and materials engineering	1,001	1,084	1,037	1,184	1,250	1,480	1,624	1,722	1,759	1,621	1,699
Other engineering	2,778	2,971	3,682	3,678	3,742	4,060	4,081	4,591	5,168	4,544	4,639
Environmental sciences	3,418	3,741	3,742	3,503	3,431	3,170	2,985	3,751	3,339	3,207	3,884
Atmospheric sciences	1,164	1,259	1,260	1,185	1,167	965	884	1,018	954	954	1,469
Geological sciences	675	725	704	674	654	638	517	754	530	598	726
Oceanography	785	846	809	772	746	788	789	834	744	724	814
Other environmental sciences	795	910	968	872	864	780	794	1,145	1,111	932	876
Life sciences	25,477	27,772	27,728	28,128	27,928	29,464	28,919	33,267	33,909	29,450	31,006
Agricultural sciences	1,048	1,046	1,087	1,094	1,108	1,139	1,020	1,120	1,132	1,085	943
Biological sciences (excluding environmental biology)	14,499	18,643	13,092	13,352	13,691	14,430	14,443	17,377	17,214	15,178	15,458
Environmental biology	779	718	670	699	687	757	858	964	816	855	797
Medical sciences	6,427	6,160	10,899	10,862	10,592	10,791	10,387	11,393	11,677	10,202	11,078
Other life sciences	2,724	1,205	1,981	2,121	1,850	2,347	2,210	2,414	3,070	2,129	2,730
Physical sciences	4,983	5,022	5,211	5,494	5,351	5,136	5,073	5,821	5,871	5,427	6,408
Astronomy	752	872	921	885	792	656	528	672	560	555	1,099
Chemistry	1,182	1,138	1,191	1,198	1,126	1,150	1,148	1,274	1,311	1,106	1,103
Physics	2,621	2,500	2,599	3,041	3,002	2,939	2,969	3,356	3,470	3,269	3,708
Other physical sciences	429	512	501	370	430	391	427	520	530	496	497
Psychology	906	1,104	1,855	1,892	1,747	1,838	1,741	2,086	2,156	1,887	2,087
Biological aspects	11	23	6	2	3	4	22	2	14	16	14
Social aspects	53	51	52	47	41	37	19	51	75	54	62
Other psychological sciences	843	1,031	1,797	1,843	1,703	1,797	1,700	2,033	2,067	1,816	2,011
Social sciences	983	1,026	1,090	1,097	1,124	1,147	977	1,157	1,197	1,262	1,125
Anthropology	16	15	15	18	15	16	17	29	25	26	30
Economics	227	234	205	216	203	250	212	230	274	399	344
Political science	18	19	19	33	45	41	29	25	14	12	13
Sociology	96	125	120	70	144	218	95	139	132	133	155
Other social sciences	625	634	731	760	717	622	623	734	752	693	583
Other sciences nec	1,334	1,329	1,916	2,089	2,461	1,403	2,177	3,713	2,763	3,401	2,546

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.