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Federal obligations for applied 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	24,338	26,320	27,237	26,598	26,951	27,228	26,740	30,813	31,933	28,751	31,027
Computer sciences and mathematics	1,632	1,552	1,710	1,755	1,607	1,652	1,640	1,750	1,749	1,586	1,733
Computer sciences	1,406	1,322	1,433	1,499	1,317	1,369	1,319	1,444	1,488	1,255	1,470
Mathematics	76	93	139	144	151	148	138	124	119	150	119
Other computer sciences and mathematics	149	137	139	112	139	135	183	183	141	180	144
Engineering	6,410	6,492	6,595	6,252	6,314	6,360	6,239	6,879	7,590	6,889	7,944
Aeronautical engineering	1,827	1,476	1,337	959	987	734	661	722	679	692	1,413
Astronautical engineering	693	643	598	421	419	297	256	335	358	377	611
Chemical engineering	139	256	250	217	227	245	234	279	367	292	255
Civil engineering	256	289	275	217	285	338	362	493	545	468	478
Electrical engineering	596	724	691	821	830	781	825	957	1,066	954	1,026
Mechanical engineering	177	202	212	247	228	260	227	230	283	228	216
Metallurgy and materials engineering	493	503	445	518	439	520	631	609	667	544	513
Other engineering	2,230	2,399	2,787	2,853	2,900	3,185	3,045	3,253	3,625	3,334	3,432
Environmental sciences	1,585	1,841	1,719	1,536	1,581	1,443	1,392	1,608	1,551	1,411	1,626
Atmospheric sciences	479	591	533	442	501	381	361	368	357	341	517
Geological sciences	249	263	222	203	209	211	215	324	198	201	224
Oceanography	358	404	356	340	329	351	355	285	272	241	319
Other environmental sciences	499	583	607	551	542	500	461	631	725	627	565
Life sciences	11,453	13,007	13,239	12,880	12,993	13,820	13,361	15,680	16,161	14,076	14,990
Agricultural sciences	517	518	583	583	594	606	526	589	560	538	462
Biological sciences (excluding environmental biology)	6,119	8,172	5,869	5,744	5,991	6,354	6,184	7,777	7,796	6,901	7,141
Environmental biology	444	394	341	360	342	406	490	497	381	420	390
Medical sciences	3,066	3,241	5,422	5,159	5,138	5,287	5,073	5,645	5,890	5,117	5,551
Other life sciences	1,306	682	1,024	1,034	928	1,166	1,089	1,172	1,533	1,100	1,447
Physical sciences	1,577	1,568	1,549	1,755	1,836	1,592	1,669	1,700	1,887	1,612	1,851
Astronomy	148	176	155	107	106	63	45	54	56	57	174
Chemistry	433	389	415	434	406	417	423	439	483	332	327
Physics	760	680	694	1,045	1,091	927	982	986	1,093	994	1,140
Other physical sciences	237	323	284	170	233	184	219	222	255	229	209
Psychology	441	561	876	852	802	859	805	986	1,026	908	999
Biological aspects	3	13	5	2	2	2	21	*	4	3	1
Social aspects	48	46	47	42	36	31	12	32	56	38	48
Other psychological sciences	391	501	824	807	764	825	771	953	967	867	949
Social sciences	621	673	670	706	743	786	647	725	838	891	743
Anthropology	1	2	2	3	1	1	2	2	*	*	3
Economics	182	186	157	165	156	198	169	178	230	344	289
Political science	13	13	12	22	34	33	13	12	5	3	3
Sociology	77	76	72	52	125	177	81	106	103	97	116
Other social sciences	349	397	428	464	427	378	382	428	501	447	332
Other sciences nec	619	627	880	861	1,075	717	986	1,485	1,130	1,378	1,142

* = 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.