

R&D expenditure, by state, performing sector, and source of funds: 2000

(Thousands of current dollars)

State	Performing sector:		Industry					U&C					U&C	Other	Nonprofit	
	Funding sector:	Rank	All R&D	Federal	Total ^a	Federal ^a	Industry ^b	Total	Federal	Non-Federal	Industry	U&Cs	Nonprofit	FFRDCs	nonprofit institutions	FFRDCs
U.S. total.....	na		264,616,008	17,468,589	199,539,000	19,118,000	180,421,000	30,973,891	17,974,978	2,256,997	2,200,926	6,209,611	2,331,379	5,801,229	4,379,922	1,464,947
Alabama.....	27		1,730,117	664,981	607,000	184,000	423,000	428,122	275,912	6,052	19,581	88,167	38,410	0	30,014	0
Alaska.....	47		196,448	75,446	9,000	D	D	107,417	49,241	3,469	20,073	34,328	306	0	4,585	0
Arizona.....	19		3,107,291	145,601	2,445,000	153,000	2,292,000	465,777	244,938	15,221	28,519	158,810	18,289	36,409	14,504	0
Arkansas.....	42		454,401	45,489	273,000	D	D	130,894	58,302	35,076	8,121	22,110	7,285	0	5,018	0
California.....	1		55,092,936	1,655,628	45,769,000	4,229,000	41,540,000	4,053,042	2,335,093	235,796	294,990	820,953	366,210	2,812,134	660,758	142,374
Colorado.....	17		4,229,501	241,771	3,140,000	D	D	544,204	427,495	24,000	24,031	53,711	14,967	115,510	64,970	123,046
Connecticut.....	14		4,888,469	19,373	4,371,000	127,000	4,244,000	468,435	304,155	15,539	28,327	74,534	45,880	0	29,661	0
Delaware.....	28		1,532,130	7,598	1,444,000	7,000	1,437,000	78,126	40,768	4,142	3,878	19,562	9,776	0	2,406	0
District of Columbia.....	24		2,296,233	1,722,640	112,000	46,000	67,000	245,828	186,632	3,826	16,286	15,480	23,604	0	210,844	4,921
Florida.....	15		4,662,727	573,140	3,212,000	498,000	2,714,000	851,932	408,826	103,167	78,906	220,827	40,206	0	25,655	0
Georgia.....	21		2,796,192	273,713	1,579,000	83,000	1,496,000	926,749	417,664	76,857	94,341	299,214	38,673	0	16,730	0
Hawaii.....	46		291,409	58,658	44,000	17,000	27,000	161,300	95,419	35,474	11,158	19,249	0	0	27,451	0
Idaho.....	30		1,433,567	21,722	1,338,000	D	D	73,726	28,888	18,545	5,338	17,505	3,450	0	119	0
Illinois.....	6		12,767,496	85,344	10,661,000	37,000	10,624,000	1,170,625	681,006	73,042	56,085	279,759	80,733	759,002	91,525	0
Indiana.....	18		3,252,494	71,630	2,668,000	75,000	2,593,000	509,141	228,768	34,377	42,343	178,613	25,040	0	3,723	0
Iowa.....	34		1,017,300	34,586	538,000	D	D	418,263	203,437	56,351	32,473	104,472	21,530	23,281	3,170	0
Kansas.....	31		1,420,089	20,162	1,140,000	D	D	258,336	105,610	44,396	23,410	69,872	15,048	0	1,591	0
Kentucky.....	35		866,052	7,500	582,000	1,000	581,000	274,238	96,288	21,849	17,932	121,232	16,937	0	2,314	0
Louisiana.....	38		626,793	99,196	126,000	1,000	125,000	399,411	169,895	75,626	25,670	95,601	32,619	0	2,186	0
Maine.....	45		318,726	4,755	201,000	53,000	148,000	57,753	25,309	6,445	2,994	20,555	2,450	0	55,218	0
Maryland.....	10		8,633,558	4,869,668	2,032,000	428,000	1,604,000	1,507,549	1,090,445	82,069	50,154	181,039	103,842	0	224,341	0
Massachusetts.....	5		13,004,427	259,172	9,863,000	1,831,000	8,032,000	1,485,792	1,064,468	40,305	138,667	94,322	148,030	348,339	967,591	80,533
Michigan.....	2		18,892,070	239,543	17,640,000	80,000	17,559,000	995,756	553,119	63,226	66,955	242,336	70,120	0	16,771	0
Minnesota.....	16		4,298,967	32,014	3,722,000	173,000	3,550,000	416,411	233,018	52,659	26,859	71,236	32,639	0	128,542	0
Mississippi.....	39		512,789	186,799	101,000	19,000	83,000	217,064	117,168	38,833	10,973	47,025	3,065	0	7,926	0
Missouri.....	23		2,583,036	43,851	1,893,000	18,000	1,876,000	614,101	371,713	26,387	33,535	130,288	52,178	0	32,084	0
Montana.....	48		169,856	35,344	28,000	D	D	99,069	51,686	17,873	10,298	15,658	3,554	0	7,443	0
Nebraska.....	43		438,996	25,082	199,000	D	D	208,480	65,702	7,243	17,636	101,159	16,740	0	6,434	0
Nevada.....	44		377,412	20,696	248,000	D	D	106,340	60,005	7,032	5,532	29,227	4,544	0	2,376	0
New Hampshire.....	36		775,004	35,717	586,000	D	D	150,982	95,290	9,747	9,197	22,924	13,824	0	2,305	0
New Jersey.....	4		13,133,222	417,685	12,062,000	253,000	11,809,000	567,666	257,445	46,071	29,817	160,412	73,921	65,305	20,566	0
New Mexico.....	20		3,085,199	320,838	1,158,000	D	D	246,258	175,028	11,965	11,692	41,740	5,833	1,333,194	26,909	0
New York.....	3		13,555,586	176,034	10,539,000	1,773,000	8,766,000	2,290,812	1,475,423	102,684	100,995	374,797	236,913	0	300,685	249,055
North Carolina.....	13		5,045,250	262,003	3,672,000	30,000	3,641,000	1,040,017	577,437	113,764	169,979	147,364	31,473	0	71,230	0
North Dakota.....	49		145,671	25,842	51,000	D	D	67,406	29,343	2,417	4,400	28,651	2,595	0	1,423	0
Ohio.....	11		7,661,540	615,458	5,962,000	539,000	5,423,000	918,500	498,967	83,520	87,570	179,722	68,721	0	165,582	0
Oklahoma.....	37		659,684	58,619	333,000	3,000	331,000	252,419	93,434	42,396	16,789	88,152	11,648	0	15,646	0
Oregon.....	25		2,116,232	88,618	1,651,000	7,000	1,644,000	346,149	246,684	35,485	14,775	32,568	16,637	0	30,465	0
Pennsylvania.....	9		9,841,912	151,955	7,873,000	460,000	7,412,000	1,549,050	1,032,963	44,433	159,669	202,535	109,450	55,955	211,952	0

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	Funding sector:	Rank			Total ^a	Federal ^a	Industry ^b	Total	Federal	Non-Federal	Industry	U&Cs	Nonprofit	FFRDCs	nonprofit institutions	Nonprofit FFRDCs
														Federal ^c	Federal ^d	Federal ^d
Rhode Island.....	29		1,500,828	240,862	1,090,000	D	D	129,697	88,510	4,564	2,735	30,289	3,599	0	40,269	0
South Carolina.....	33		1,126,164	45,754	781,000	D	D	294,184	131,043	31,743	15,478	102,793	13,127	0	5,226	0
South Dakota.....	50		84,801	13,232	44,000	16000	28,000	27,269	13,659	6,525	361	3,825	2,899	0	300	0
Tennessee.....	26		2,057,293	88,947	1,215,000	D	D	405,013	240,337	39,258	18,520	67,634	39,264	0	35,888	312,445
Texas.....	7		11,552,437	464,699	8,961,000	230,000	8,731,000	2,039,642	1,101,463	229,255	165,151	322,234	221,539	0	87,096	0
Utah.....	32		1,360,644	69,871	979,000	D	D	308,059	192,100	20,365	17,853	43,818	33,923	0	3,714	0
Vermont.....	40		465,349	3,599	396,000	D	D	64,762	41,232	3,262	5,713	10,239	4,316	0	988	0
Virginia.....	12		5,069,481	1,449,209	2,718,000	800,000	1,918,000	587,718	321,690	70,328	53,380	103,522	38,798	79,342	67,066	168,146
Washington.....	8		10,516,331	258,718	9,265,000	D	D	642,934	443,223	15,266	62,087	101,445	20,913	0	198,734	150,945
West Virginia.....	41		457,128	102,958	235,000	D	D	73,420	33,972	2,963	7,510	24,299	4,676	35,536	10,214	0
Wisconsin.....	22		2,692,876	37,816	1,981,000	18,000	1,963,000	661,470	348,779	45,576	21,554	176,467	69,094	0	12,590	0
Wyoming.....	51		60,969	7,298	7,000	0	7,000	43,094	16,556	1,470	2,941	20,103	2,024	0	3,577	0
Other and unknown.....	na		12,130,343	42,207	11,994,000	1,094,000	10,900,000	81,969	47,925	16,329	5,021	12,114	580	11,268	899	0
Adjustment.....	na		7,630,582	949,548	1,000	NA	NA	911,520	481,505	52,734	22,674	285,120	69,487	125,954	420,648	233,482

D data withheld to avoid disclosing operations of individual companies; FFRDC federally funded research and development center; NA not available; na not applicable; U&C universities and colleges

^aIncludes performance at industry FFRDCs.

^bIndustry sources of industry R&D expenditures include all nonfederal sources of industry R&D expenditures.

^cIncludes total R&D expenditures of FFRDCs administered by academic institutions.

^dOther sources of support for nonprofit institutions were unavailable by state. For 2000, total nonprofit performance is estimated at \$9,368 million. Industry provided an estimated \$1,103 million to the nonprofit sector, and nonprofit institutions provided an estimated \$3,886 million. These non-Federal support amounts are included in the all R&D column for U.S. total and other and unknown. For these two columns, the amounts under all R&D are greater than the sum of the components to the right, because those components do not include non-Federal support to nonprofit organizations.

NOTES: Industry R&D data by state refer to calendar years; other R&D data by state refer to fiscal years but may serve as approximations to calendar-year data. The "other and unknown" category is the difference between the national aggregates and the sum of the individual state data that are reported here. Therefore, part of the other and unknown totals reflects the difference between state totals reported on an FY basis and the U.S. totals that have been adjusted to calendar-year estimates. For industry, the other and unknown totals include the survey data that were not assigned to individual states plus the amounts that were reported for individual states but are suppressed here to protect confidentiality of surveyed companies.

SOURCE: National Science Foundation, Division of Science Resources Statistics, *National Patterns of R&D Resources: 2002 Data Update*, NSF 03-313 (Arlington, VA, 2003).