Table 801. Academic and Industrial Research and Development (R&D) Performed by State: 2007

[In millions of dollars (49,021 represents 49,021,000,000). For definition of Research and Development, see text, this section]

State	Academic R&D (mil. dol.)	Academic R&D per $1,000 of state GDP	Industry-performed R&D (mil. dol.)	Industry R&D per $1,000 of state GDP	State	Academic R&D (mil. dol.)	Academic R&D per $1,000 of state GDP	Industry-performed R&D (mil. dol.)	Industry R&D per $1,000 of state GDP
U.S. [1]	**49,021**	**3.55**	**269,267**	**19.50**	MO	941	4.11	2,736	11.95
AL	655	3.98	1,771	[2] 10.76	MT	179	5.22	134	3.91
AK	160	3.56	58	1.29	NE	365	4.54	489	6.09
AZ	783	3.18	3,846	15.64	NV	192	1.48	567	4.38
AR	240	2.52	339	3.56	NH	307	5.31	1,814	[3] 31.37
CA	6,734	3.74	64,187	35.62	NJ	865	1.88	17,892	38.79
CO	873	3.70	5,223	22.15	NM	410	5.45	568	7.55
CT	691	3.26	9,444	44.49	NY	3,964	3.59	10,916	9.88
DE	126	2.05	1,472	23.92	NC	1,885	4.83	6,829	17.49
DC	333	3.60	379	4.10	ND	169	5.93	126	4.42
FL	1,558	2.10	4,569	6.16	OH	1,807	3.91	7,265	15.71
GA	1,389	3.55	2,788	7.13	OK	299	2.19	527	3.86
HI	274	4.42	218	3.52	OR	575	3.63	3,629	[3] 22.92
ID	114	2.19	726	13.93	PA	2,438	4.57	10,387	19.48
IL	1,867	3.02	11,362	18.40	RI	230	4.93	411	8.80
IN	894	3.59	4,939	19.82	SC	569	3.75	1,426	9.40
IA	587	4.52	1,202	9.25	SD	82	2.33	132	3.75
KS	376	3.21	1,304	11.15	TN	761	3.10	1,638	6.68
KY	503	3.31	890	5.85	TX	3,417	2.98	13,889	12.09
LA	604	2.91	373	[2] 1.80	UT	415	3.93	1,764	16.71
ME	137	2.85	265	5.52	VT	115	4.67	413	16.77
MD	2,542	9.61	3,665	13.86	VA	971	2.53	4,840	12.60
MA	2,172	6.17	19,488	55.34	WA	981	3.16	12,687	40.89
MI	1,510	3.97	15,736	41.42	WV	167	2.89	233	4.03
MN	637	2.52	6,636	26.28	WI	1,067	4.57	3,411	14.61
MS	411	4.69	279	3.18	WY	80	2.54	37	[2] 1.17

[1] National totals for calendar year 2007. Includes $3.3 billion of industrial R&D expenditures that year that could not be allocated to specific states. [2] Estimated, more than 50 percent of the industrial R&D value is imputed due to raking of state data. [3] More than 50 percent of the industrial R&D value is imputed.

Source: National Science Foundation, *National Patterns of R&D Resources*, NSF-10-314, 2010. See also <http://www.nsf.gov/statistics/nsf10314/>.

Table 802. Research and Development (R&D) Expenditures in Science and Engineering at Universities and Colleges in Current and Constant (2000) Dollars: 2000 to 2008

[In millions of dollars (30,084 represents $30,084,000,000). Totals may not add due to rounding]

Characteristic	Current dollars				Constant (2000) dollars [1]			
	2000	2005	2007	2008	2000	2005	2007	2008
Total	**30,084**	**45,799**	**49,554**	**51,909**	**30,084**	**40,638**	**41,395**	**42,354**
Basic research [2]	22,547	34,368	37,842	39,408	22,547	30,495	31,611	32,154
Applied R&D [2]	7,537	11,432	11,712	12,501	7,537	10,144	9,784	10,200
Source of funds:								
Federal government	17,548	29,209	30,458	31,231	17,548	25,917	25,443	25,482
State and local government	2,200	2,940	3,143	3,418	2,200	2,609	2,626	2,789
Institutions' own funds	5,925	8,266	9,748	10,435	5,925	7,335	8,143	8,514
Industry	2,156	2,291	2,680	2,870	2,156	2,033	2,239	2,342
Other	2,255	3,093	3,525	3,954	2,255	2,744	2,945	3,226
Fields:								
Physical sciences	2,713	3,704	3,859	3,933	2,713	3,287	3,224	3,209
Environmental sciences	1,766	2,555	2,724	2,800	1,766	2,267	2,275	2,285
Mathematical sciences	342	495	573	621	342	439	479	507
Computer sciences	877	1,406	1,421	1,468	877	1,248	1,187	1,198
Life sciences	17,471	27,605	29,838	31,215	17,471	24,494	24,925	25,469
Psychology	517	826	872	929	517	733	728	758
Social sciences	1,300	1,685	1,798	1,940	1,300	1,495	1,502	1,583
Other sciences	543	778	943	1046	543	690	788	853
Engineering	4,557	6,746	7,525	7,957	4,557	5,986	6,286	6,492

[1] Based on gross domestic product implicit price deflator (updated March 2009). [2] Basic research and applied R&D statistics were re-estimated for FY1998 and forward. These data are not directly comparable to those from earlier years.

Source: U.S. National Science Foundation, *Survey of Research and Development Expenditures at Universities and Colleges*, annual. See also <http://www.nsf.gov/statistics/srvyrdexpenditures/>.