

Science and engineering profile: California

Characteristic	State	U.S.	Rank
Doctoral scientists, 2003	76,410	566,330	1
Doctoral engineers, 2003	22,650	118,540	1
S&E doctorates awarded, 2005	3,600	27,974	1
Engineering (%)	25	23	-
Life sciences (%)	22	26	-
Social sciences (%)	14	15	-
S&E and health postdoctorates in doctorate-granting institutions, 2005	7,491	48,601	1
S&E and health graduate students in doctorate-granting institutions, 2005	53,047	527,767	1
Population, 2005 (thousands)	36,132	300,322	1
Civilian labor force, 2005 (thousands)	17,696	150,717	1
Personal income per capita, 2005 (dollars)	36,890	34,495	13
Federal spending			
Total expenditures, 2004 (\$millions)	232,387	2,136,440	1
R&D obligations, 2004 (\$millions)	18,041	98,936	1
Total R&D performance, 2004 (\$millions)	59,607	283,439	1
Industry R&D, 2004 (\$millions)	46,614	201,131	1
Academic R&D, 2005 (\$millions)	6,273	45,725	1
Life sciences (%)	60	60	-
Engineering (%)	13	15	-
Physical sciences (%)	11	8	-
SBIR awards, 2000-05	6,756	33,289	1
Utility patents issued to state residents, 2005	17,989	74,630	1
Gross domestic product, 2005 (\$billions)	1,622	12,492	1

- = no value possible.

S&E = science and engineering.

SBIR = small business innovation research.

NOTES: Rankings and totals are based on data for the 50 states, District of Columbia, and Puerto Rico. Rankings are based on unrounded totals. Reliability of estimates of doctoral scientists and engineers varies by state, because sample allocation was not based on geography. Rankings do not take into account the margin of error of estimates from sample surveys. Data on doctoral scientists and engineers include only recipients of doctoral degrees from U.S. institutions in S&E and health fields. The field percentages represent the largest three fields within the state.

Federal obligations for research and development, by agency and performer: California, FY 2004
(Thousands of dollars)

Agency	Total	Performer					State, local governments	Rank
		Federal intramural	All FFRDCs	Industrial firms	Universities and colleges	Other nonprofits		
All agencies	18,041,137	2,571,673	3,241,992	7,874,995	3,331,980	947,548	72,949	1
Department of Agriculture	132,899	102,403	0	268	29,689	519	20	3
Department of Commerce	117,818	39,969	1,000	31,762	37,263	2,000	5,824	3
Department of Defense	9,481,622	2,099,933	258,725	6,746,595	301,560	74,809	0	1
Department of Energy	1,513,629	3,204	1,279,107	82,442	123,415	25,461	0	2
Department of Health and Human Services	3,153,249	5,536	53,114	262,004	2,032,430	794,575	5,590	2
Department of Homeland Security	167,482	77,013	64,806	24,988	675	0	0	1
Department of the Interior	82,037	78,286	0	987	2,491	90	183	3
Department of Transportation	25,380	40	0	6,342	1,801	10	17,187	5
Environmental Protection Agency	12,812	0	0	2,290	8,171	1,919	432	12
National Aeronautics and Space Administration	2,733,718	165,078	1,582,203	688,449	251,603	2,672	43,713	1
National Science Foundation	620,491	211	3,037	28,868	542,882	45,493	0	1
Rank	1	2	1	1	1	2	4	-

- = no value possible.

FFRDC = federally funded research and development center.

NOTES: Federal R&D obligations are as reported by funding agencies. Ranks and totals are based on data for the 50 states, District of Columbia, and Puerto Rico.

SOURCES: Prepared by the National Science Foundation/Division of Science Resources Statistics. Data compiled from numerous sources; see the section, Data Sources for Science and Engineering (S&E) State Profiles.