

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, 2004	3,499	26,275	1
Engineering (percent)	22	22	na
Life sciences (percent)	22	27	na
Social sciences (percent)	17	16	na
S&E and health postdoctorates in doctorate-granting institutions, 2003	7,693	46,807	1
S&E and health graduate students in doctorate-granting institutions, 2003	51,989	507,247	1
Population, 2004 (thousands)	35,894	297,550	1
Civilian labor force, 2004 (thousands)	17,552	148,769	1
Personal income per capita, 2004 (dollars)	35,172	33,041	12
Federal spending			
Total expenditures, 2003 (millions of dollars)	219,706	2,024,246	1
R&D obligations, 2003 (millions of dollars)	17,410	91,359	1
Total R&D performance, 2003 (millions of dollars)	59,664	277,577	1
Industry R&D, 2003 (millions of dollars)	47,142	198,244	1
Academic R&D, 2003 (millions of dollars)	5,363	40,055	1
Life sciences (percent)	58	59	na
Engineering (percent)	13	15	na
Physical sciences (percent)	11	8	na
Number of SBIR awards, 1999–2004	6,476	31,847	1
Utility patents issued to state residents, 2004	19,488	84,268	1
Gross state product, 2004 (billions of dollars)	1,551	11,744	1

na = not applicable.

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. Reliability of estimates of industry R&D and 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 2003

(Thousands of dollars)

Agency	Total	Performer						Rank
		Federal intramural	All FFRDCs	Industrial firms	Universities and colleges	Other nonprofits	State and local government	
All agencies	17,410,257	2,834,269	2,693,692	7,839,362	3,099,399	920,411	23,124	1
Department of Agriculture	113,638	80,308	0	452	31,955	656	267	3
Department of Commerce	51,328	8,201	872	30,459	10,576	431	789	5
Department of Defense	9,075,031	1,780,444	205,092	6,727,262	301,252	60,896	85	1
Department of Energy	1,318,637	3,294	1,088,211	79,813	126,501	20,818	0	2
Department of Health and Human Services	3,522,297	650,635	51,801	224,792	1,888,356	701,816	4,897	1
Department of the Interior	77,298	71,568	0	348	5,308	39	35	3
Department of Transportation	24,354	154	100	7,321	1,021	233	15,525	7
Environmental Protection Agency	16,347	169	0	1,638	12,777	794	969	9
National Aeronautics and Space Administration	2,620,887	224,023	1,347,180	745,138	210,476	93,513	557	1
National Science Foundation	590,440	15,473	436	22,139	511,177	41,215	0	1
Rank	1	2	1	1	1	2	2	na

FFRDC = federally funded research and development center.

na = not applicable.

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.