

Science and engineering profile: California

Characteristic	State	U.S. total	Rank
Employed SEH doctorate holders, 2006	87,370	620,140	1
S&E doctorates awarded, 2006	4,005	29,854	1
Engineering (%)	25	24	–
Life sciences (%)	21	26	–
Social sciences (%)	15	14	–
SEH postdoctorates in doctorate-granting institutions, 2006	7,550	49,201	1
SEH graduate students in doctorate-granting institutions, 2006	52,480	542,073	1
Population, 2007 (thousands)	36,553	305,563	1
Civilian labor force, 2007 (thousands)	18,188	154,046	1
Personal income per capita, 2006 (\$)	39,358	36,629	11
Federal spending			
Total expenditures, 2005 (\$millions)	242,023	2,260,098	1
R&D obligations, 2005 (\$millions)	19,380	106,845	1
Total R&D performance, 2005 (\$millions)	63,874	310,194	1
Industry R&D, 2005 (\$millions)	50,683	222,427	1
Academic R&D, 2006 (\$millions)	6,493	47,735	1
Life sciences (%)	61	60	–
Engineering (%)	12	15	–
Physical sciences (%)	10	8	–
SBIR awards, 2000–06	7,813	38,825	1
Utility patents issued to state residents, 2006	22,275	89,820	1
Gross domestic product, 2006 (\$billions)	1,727	13,235	1

– = no value possible.

S&E = science and engineering; SEH = science, engineering, and health; 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; they do not account for margin of error of estimates from sample surveys. Employed SEH doctorate holders include only recipients of U.S. doctoral degrees. State estimates for employed SEH doctorate holders may have large sampling errors because the source for these data, the Survey of Doctorate Recipients, was not designed to provide a sample for estimates at the state level; these data are classified by the state where the doctorate holder resides, if known; otherwise, data are classified by employer's location.

Federal obligations for research and development, by agency and performer: California, FY 2005 (Thousands of dollars)

Agency	Total	Performer						Rank
		Federal intramural	All FFRDCs	Industrial firms	Universities and colleges	Other nonprofits	State, local governments	
All agencies	19,379,567	2,035,601	3,389,956	9,537,268	3,365,804	1,009,329	41,609	1
Department of Agriculture	124,813	85,961	0	241	37,854	757	0	3
Department of Commerce	38,482	5,150	1,240	18,215	12,587	1,290	0	4
Department of Defense	10,849,733	1,796,734	269,257	8,404,697	283,616	95,429	0	1
Department of Energy	1,536,490	5,112	1,307,887	81,653	129,512	12,326	0	2
Department of Health and Human Services	3,225,327	2,115	49,356	250,930	2,103,060	809,241	10,625	2
Department of Homeland Security	271,671	63,236	144,033	57,355	4,348	2,699	0	1
Department of the Interior	89,182	76,919	0	743	11,378	0	142	3
Department of Transportation	13,157	178	0	8,562	1,572	2,600	245	7
Environmental Protection Agency	13,012	0	0	500	11,253	477	782	10
National Aeronautics and Space Administration	2,592,441	0	1,616,081	691,365	233,380	21,800	29,815	1
National Science Foundation	625,259	196	2,102	23,007	537,244	62,710	0	1
Rank	1	4	1	1	1	2	3	–

– = no value possible.

FFRDC = federally funded research and development center.

NOTES: Federal R&D obligations are as reported by funding agencies. Rankings 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 State Profiles".