

Science and Engineering Profile: California

Characteristic	State	U.S.	Rank	Characteristic	State	U.S.	Rank
Doctoral scientists, 2001 ¹	70,650	542,940	1	Total R&D performance, 2000 (millions).....	\$55,093	\$244,855	1
Doctoral engineers, 2001 ¹	21,040	112,770	1	Industry R&D, 2000 (millions).....	\$45,769	\$187,544	1
S&E doctorates awarded, 2001 ¹	3,334	25,509	1	Academic R&D, 2001 (millions).....	\$4,422	\$32,716	1
of which, in engineering.....	22%	22%		of which, in life sciences.....	58%	59%	
in life sciences.....	21%	26%		in engineering.....	13%	15%	
in psychology.....	17%	13%		in physical sciences.....	11%	9%	
S&E postdoctorates, 2001 ¹				Public higher education current-fund			
in doctorate-granting institutions.....	6,910	42,899	1	expenditures, 2000 (millions).....	\$20,204	\$152,068	1
S&E graduate students, 2001 ¹				Number of SBIR awards, 1999-2001.....	2,726	13,650	1
in doctorate-granting institutions.....	45,097	452,411	1	Utility patents issued to state residents, 2001.....	18,598	87,605	1
Population, 2002 (thousands).....	35,116	292,228	1	Gross state product, 2000 (billions).....	\$1,345	\$10,003	1
Civilian labor force, 2002 (thousands).....	17,405	146,712	1	of which, agriculture.....	2%	1%	
Personal income per capita, 2001.....	\$32,702	\$30,472	11	manufacturing, mining, construction.....	19%	22%	
Federal spending				transportation, communication, utilities.....	7%	8%	
Total expenditures, 2001 (millions).....	\$188,517	\$1,753,011	1	wholesale and retail trade.....	16%	16%	
R&D obligations, 2001 (millions).....	\$12,651	\$78,006	1	finance, insurance, real estate.....	22%	19%	
				services.....	24%	22%	
				government.....	10%	12%	

¹Data on graduate students, doctoral scientists, doctoral engineers, and postdoctorates include all graduate degree (except M.D.) candidates and recipients in S&E fields, including health. Data on S&E doctorates awarded do not include health fields.

NOTES: Rankings and totals are based on data for the 50 States, District of Columbia, and Puerto Rico. Reliability of the estimates of industry R&D and of doctoral scientists and engineers varies by State, because the sample allocation was not based on geography. The rankings do not take into account the margin of error of estimates from sample surveys.

Federal Obligations for Research and Development by Agency and Performer: California, Fiscal Year 2001

Agency	Performer							State rank, total
	Total	Federal intramural	All FFRDCs	Industrial firms	Universities & colleges	Other nonprofits	State & local government	
	[In thousands of dollars]							
Total, all agencies.....	12,651,125	2,259,305	2,670,062	4,359,351	2,591,493	750,160	20,754	1
Department of Agriculture.....	110,641	76,234	0	498	33,339	452	118	3
Department of Commerce.....	73,697	29,682	1,416	32,830	6,175	1,780	1,814	3
Department of Defense.....	5,821,573	1,827,036	112,416	3,508,506	330,784	42,831	0	1
Department of Energy.....	1,301,126	6,795	1,066,744	73,515	130,750	23,322	0	2
Dept. of Health & Human Services.....	2,246,113	6,772	67,532	101,933	1,509,214	556,921	3,741	2
Department of the Interior.....	92,302	82,138	0	1,630	8,286	85	163	3
Department of Transportation.....	29,028	1,945	43	12,580	1,430	0	13,030	5
Environmental Protection Agency.....	19,487	69	0	176	14,501	4,125	616	4
National Aeronautics and Space Admin....	2,516,462	228,573	1,421,435	609,395	167,051	88,736	1,272	1
National Science Foundation.....	440,696	61	476	18,288	389,963	31,908	0	1
State rank, total.....	1	2	1	1	1	2	2	na

KEY: FFRDC = federally funded research and development center; SBIR = small business innovation research; 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".