

## Hawaii

Science and Engineering Profile							
Characteristic	State	U.S.	Rank	Characteristic	State	U.S.	Rank
Doctoral scientists, 1999 <sup>1</sup> .....	2,490	518,670	39	Total R&D performance, 1998 (millions).....	\$242	\$214,668	44
Doctoral engineers, 1999 <sup>1</sup> .....	170	107,100	47	Industry R&D, 1998 (millions).....	\$17	\$163,480	48
S&E doctorates awarded, 1999 <sup>1</sup> .....	121	25,953	38	Academic R&D, 1998 (millions).....	\$148	\$25,342	36
of which, in social sciences.....	44%	16%		of which, in life sciences.....	39%	57%	
in life sciences.....	26%	25%		in environmental sciences.....	33%	6%	
in environmental sciences.....	12%	3%		in physical sciences.....	18%	9%	
S&E postdoctorates, 1998 <sup>1</sup>				Public higher education current-fund			
in doctorate-granting institutions.....	120	39,494	37	expenditures, 1997 (millions).....	\$638	\$125,236	39
S&E graduate students, 1998 <sup>1</sup>				Number of SBIR awards, 1990-98.....	128	35,413	29
in doctorate-granting institutions.....	1,857	422,834	39	Patents issued to state residents, 1999.....	83	83,901	46
Population, 1999 (thousands).....	1,185	276,580	43	Gross state product, 1998 (billions).....	\$40	\$8,800	42
Civilian labor force, 1999 (thousands).....	595	140,536	43	of which, agriculture.....	1%	1%	
Personal income per capita, 1999.....	\$27,544	\$28,542	21	manufacturing, mining, construction.....	7%	22%	
Federal spending				transportation, communication, utilities.....	10%	9%	
Total expenditures, 1999 (millions).....	\$8,568	\$1,508,933	40	wholesale and retail trade.....	15%	16%	
R&D obligations, 1998 (millions).....	\$161	\$70,445	40	finance, insurance, real estate.....	23%	19%	
				services.....	22%	21%	
				government.....	22%	12%	

NOTE: 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.

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

### Federal Obligations for Research and Development by Agency and Performer: Fiscal Year 1998

Agency	Performer							
	Total	Federal Intramural	All FFRDCs	Industrial firms	Universities & colleges	Other nonprofits	State & local government	State rank, total
	[In thousands of dollars]							
Total, all agencies.....	160,826	54,776	0	30,246	52,256	21,777	1,771	40
Department of Agriculture.....	21,859	11,159	0	0	5,110	5,590	0	23
Department of Commerce.....	13,772	9,263	0	355	3,407	110	637	13
Department of Defense.....	60,283	28,989	0	28,619	2,675	0	0	30
Department of Energy.....	3,541	0	0	0	3,421	120	0	40
Dept. of Health & Human Services.....	21,868	59	0	779	17,163	3,307	560	43
Department of the Interior.....	5,810	5,106	0	52	523	129	0	34
Department of Transportation.....	548	0	0	0	0	0	548	50
Environmental Protection Agency.....	0	0	0	0	0	0	0	na
National Aeronautics and Space Admin.....	18,574	200	0	41	6,115	12,192	26	23
National Science Foundation.....	14,571	0	0	400	13,842	329	0	30
State rank, total.....	40	27	na	36	38	21	40	na

NOTE: 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.

KEY: FFRDC = federally funded research and development center; SBIR = small business innovation research; na = not applicable.

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