

Science and engineering profile: Vermont

Characteristic	State	U.S.	Rank
Doctoral scientists, 2003	1,970	566,330	46
Doctoral engineers, 2003	320 **	118,540	42
S&E doctorates awarded, 2004	34	26,275	49
Life sciences (percent)	56	27	na
Psychology (percent)	29	13	na
Engineering (percent)	12	22	na
S&E and health postdoctorates in doctorate-granting institutions, 2003	103	46,807	43
S&E and health graduate students in doctorate-granting institutions, 2003	717	507,247	51
Population, 2004 (thousands)	621	297,550	50
Civilian labor force, 2004 (thousands)	353	148,769	49
Personal income per capita, 2004 (dollars)	31,737	33,041	24
Federal spending			
Total expenditures, 2003 (millions of dollars)	4,443	2,024,246	51
R&D obligations, 2003 (millions of dollars)	182	91,359	43
Total R&D performance, 2003 (millions of dollars)	492	277,577	44
Industry R&D, 2003 (millions of dollars)	360	198,244	39
Academic R&D, 2003 (millions of dollars)	107	40,055	46
Life sciences (percent)	90	59	na
Sciences, nec (percent)	3	2	na
Physical sciences (percent)	2	8	na
Number of SBIR awards, 1999-2004	91	31,847	39
Utility patents issued to state residents, 2004	400	84,268	34
Gross state product, 2004 (billions of dollars)	22	11,744	52

**Coefficient of variation 25% or greater; 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: Vermont, FY 2003
(Thousands of dollars)

Agency	Total	Performer					State and local government	Rank
		Federal intramural	All FFRDCs	Industrial firms	Universities and colleges	Other nonprofits		
All agencies	181,870	24,369	0	70,527	85,195	1,017	762	43
Department of Agriculture	10,686	2,240	0	74	8,372	0	0	43
Department of Commerce	1,316	0	0	0	1,316	0	0	40
Department of Defense	73,407	6,107	0	66,104	1,196	0	0	35
Department of Energy	1,583	0	0	199	1,384	0	0	49
Department of Health and Human Services	84,220	15,555	0	2,511	65,137	1,017	0	39
Department of the Interior	700	467	0	0	129	0	104	51
Department of Transportation	576	0	0	0	0	0	576	51
Environmental Protection Agency	1,181	0	0	0	1,099	0	82	37
National Aeronautics and Space Administration	1,278	0	0	604	674	0	0	49
National Science Foundation	6,923	0	0	1,035	5,888	0	0	51
Rank	43	47	na	35	40	51	50	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.