Science and engineering profile: Vermont

Characteristic	State	U.S.	Rank	Characteristic	State	U.S.	Rank
Doctoral scientists, 2001	1,800	542,940	45	Total R&D performance, 2002 (millions of dollars)	398	255,707	46
Doctoral engineers, 2001	240	112,760	46	Industry R&D, 2002 (millions of dollars)	286	182,403	39
S&E doctorates awarded, 2002	49	24,558	47	Academic R&D, 2002 (millions of dollars)	90	36,314	47
life sciences (percent)	49	27	na	life sciences (percent)	89	59	na
psychology (percent)	29	13	na	physical sciences (percent)	3	8	na
engineering (percent)	14	21	na	other sciences (percent)	3	2	na
S&E postdoctorates, 2002				Public higher education current-fund			
in doctorate-granting institutions	97	45,171	40	expenditures, 2001 (millions of dollars)	426	170,024	49
S&E graduate students, 2002				Number of SBIR awards, 1999-2002	54	19,383	39
in doctorate-granting institutions	623	482,211	51	Utility patents issued to state residents, 2002	487	86,971	30
Population, 2003 (thousands)	619	294,688	50	Gross state product, 2001 (billions of dollars)	19	10,206	51
Civilian labor force, 2003 (thousands)	351	147,569	48	agriculture (percent)	2	1	na
				manufacturing, mining, construction (percent)	20	20	na
Personal income per capita, 2003 (dollars)	30,740	31,632	23	transportation, communication, utilities (percent)	7	8	na
				wholesale and retail trade (percent)	16	16	na
Federal spending				finance, insurance, real estate (percent)	18	20	na
Total expenditures, 2002 (millions of dollars)	4,111	1,896,317	51	services (percent)	23	22	na
R&D obligations, 2002 (millions of dollars)	136	83,764	46	government (percent)	13	12	na

na = not applicable.

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 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.

Data 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 fields.

Data on S&E doctorates awarded do not include health fields.

Federal obligations for research and development by agency and performer: Vermont, fiscal year 2002

(Thousands of dollars)

Agency	Performer							Rank
	Total	Federal intramural	All FFRDCs	Industrial firms	Universities and colleges	Other nonprofits	State and local government	
All agencies	136,374	19,724	0	38,776	75,499	1,501	874	46
Department of Agriculture	9,048	2,021	0	99	6,897	20	11	44
Department of Commerce	1,036	0	0	0	1,036	0	0	43
Department of Defense	39,574	3,510	0	35,594	470	0	0	38
Department of Energy	1,432	0	0	204	1,228	0	0	49
Department of Health and Human Services	75,725	13,543	0	887	59,994	1,301	0	41
Department of the Interior	839	650	0	0	85	0	104	50
Department of Transportation	681	0	0	0	0	0	681	49
Environmental Protection Agency	550	0	0	0	292	180	78	40
National Aeronautics and Space Administration	2,799	0	0	1,807	992	0	0	46
National Science Foundation	4,690	0	0	185	4,505	0	0	51
Rank	46	49	na	39	41	51	51	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.