Science and engineering profile: Maryland

Characteristic	State	U.S.	Rank
Doctoral scientists, 2003	27,700	566,330	5
Doctoral engineers, 2003	3,870	118,540	11
S&E doctorates awarded, 2005	744	27,974	11
Life sciences (%)	31	26	–
Engineering (%)	24	23	–
Social sciences (%)	16	15	–
S&E and health postdoctorates in doctorate-granting institutions, 2005	1,966	48,601	6
S&E and health graduate students in doctorate-granting institutions, 2005	13,813	527,767	12
Population, 2005 (thousands)	5,600	300,322	19
Civilian labor force, 2005 (thousands)	2,935	150,717	19
Personal income per capita, 2005 (dollars)	41,996	34,495	5
Federal spending			
Total expenditures, 2004 ($millions)	64,726	2,136,440	9
R&D obligations, 2004 ($millions)	12,163	98,936	2
Total R&D performance, 2004 ($millions)	14,341	283,439	4
Industry R&D, 2004 ($millions)	3,826	201,131	17
Academic R&D, 2005 ($millions)	2,357	45,725	4
Life sciences (%)	50	60	–
Engineering (%)	23	15	–
Physical sciences (%)	9	8	–
SBIR awards, 2000–05	1,698	33,289	4
Utility patents issued to state residents, 2005	1,191	74,630	21
Gross domestic product, 2005 ($billions)	246	12,492	15

– = no value possible.

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. Rankings are based on unrounded totals. Reliability of estimates 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: Maryland, FY 2004

(Thousands of dollars)

	Performer							
Agency	Total	Federal intramural	All FFRDCs	Industrial firms	Universities and colleges	Other nonprofits	State, local governments	Rank
All agencies	12,163,037	7,691,998	404,982	2,380,042	1,362,682	218,286	105,047	2
Department of Agriculture	154,183	143,760	0	75	9,411	937	0	2
Department of Commerce	371,353	342,943	0	16,634	10,021	77	1,678	1
Department of Defense	3,363,869	1,828,008	150	1,276,844	242,280	16,579	8	3
Department of Energy	31,704	3,567	0	4,376	14,063	9,698	0	22
Department of Health and Human Services	6,816,830	4,929,437	404,712	512,783	790,183	178,177	1,538	1
Department of Homeland Security	106,059	77,745	0	24,732	3,582	0	0	3
Department of the Interior	16,390	14,186	0	983	1,048	0	173	6
Department of Transportation	19,977	1,960	120	11,143	1,923	625	4,206	9
Environmental Protection Agency	7,485	0	0	5,163	1,630	599	93	18
National Aeronautics and Space Administration	1,178,886	344,557	0	523,325	213,248	405	97,351	2
National Science Foundation	96,301	5,835	0	3,984	75,293	11,189	0	12
Rank	2	1	5	4	4	8	2	–

– = no value possible.

FFRDC = federally funded research and development center.

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.