

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, 2004	677	26,275	11
Life sciences (percent)	31	27	na
Engineering (percent)	22	22	na
Social sciences (percent)	18	16	na
S&E and health postdoctorates in doctorate-granting institutions, 2003	1,871	46,807	6
S&E and health graduate students in doctorate-granting institutions, 2003	12,891	507,247	12
Population, 2004 (thousands)	5,558	297,550	19
Civilian labor force, 2004 (thousands)	2,883	148,769	20
Personal income per capita, 2004 (dollars)	39,629	33,041	5
Federal spending			
Total expenditures, 2003 (millions of dollars)	57,646	2,024,246	10
R&D obligations, 2003 (millions of dollars)	7,804	91,359	2
Total R&D performance, 2003 (millions of dollars)	10,162	277,577	9
Industry R&D, 2003 (millions of dollars)	3,998	198,244	15
Academic R&D, 2003 (millions of dollars)	2,031	40,055	4
Life sciences (percent)	48	59	na
Engineering (percent)	24	15	na
Physical sciences (percent)	10	8	na
Number of SBIR awards, 1999–2004	1,630	31,847	4
Utility patents issued to state residents, 2004	1,313	84,268	21
Gross state product, 2004 (billions of dollars)	228	11,744	15

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: Maryland, 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	7,804,386	3,538,271	439,476	2,230,402	1,292,226	299,113	4,898	2
Department of Agriculture	154,810	143,446	0	200	10,014	1,000	150	2
Department of Commerce	459,434	436,197	0	11,534	10,699	487	517	1
Department of Defense	3,439,264	2,078,974	0	1,127,118	227,094	5,896	182	3
Department of Energy	27,491	3,630	0	3,933	13,002	6,926	0	22
Department of Health and Human Services	2,313,342	530,664	439,476	477,111	705,050	159,742	1,299	3
Department of the Interior	16,443	13,866	0	1,386	1,076	15	100	6
Department of Transportation	21,532	6,244	0	11,296	1,396	218	2,378	8
Environmental Protection Agency	10,184	246	0	5,218	4,216	305	199	14
National Aeronautics and Space Administration	1,261,221	321,743	0	589,367	239,311	110,727	73	2
National Science Foundation	100,665	3,261	0	3,239	80,368	13,797	0	12
Rank	2	1	4	4	4	5	26	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.