

## Science and Engineering Profile: Maryland

Characteristic	State	U.S.	Rank	Characteristic	State	U.S.	Rank
Doctoral scientists, 2001 <sup>1</sup> .....	22,150	542,940	6	Total R&D performance, 2000 (millions).....	\$8,634	\$244,855	10
Doctoral engineers, 2001 <sup>1</sup> .....	3,440	112,770	10	Industry R&D, 2000 (millions).....	\$2,032	\$187,544	19
S&E doctorates awarded, 2001 <sup>1</sup> .....	664	25,509	12	Academic R&D, 2001 (millions).....	\$1,644	\$32,716	5
of which, in life sciences.....	30%	26%		of which, in life sciences.....	47%	59%	
in engineering.....	23%	22%		in engineering.....	22%	15%	
in social sciences.....	19%	16%		in physical sciences.....	10%	9%	
S&E postdoctorates, 2001 <sup>1</sup>				Public higher education current-fund			
in doctorate-granting institutions.....	1,671	42,899	6	expenditures, 2000 (millions).....	\$2,921	\$152,068	18
S&E graduate students, 2001 <sup>1</sup>				Number of SBIR awards, 1999-2001.....	684	13,650	5
in doctorate-granting institutions.....	10,949	452,411	13	Utility patents issued to state residents, 2001.....	1,483	87,605	19
Population, 2002 (thousands).....	5,458	292,228	18	Gross state product, 2000 (billions).....	\$186	\$10,003	16
Civilian labor force, 2002 (thousands).....	2,898	146,712	20	of which, agriculture.....	1%	1%	
Personal income per capita, 2001.....	\$35,188	\$30,472	6	manufacturing, mining, construction.....	14%	22%	
Federal spending				transportation, communication, utilities.....	8%	8%	
Total expenditures, 2001 (millions).....	\$48,164	\$1,753,011	10	wholesale and retail trade.....	15%	16%	
R&D obligations, 2001 (millions).....	\$9,290	\$78,006	2	finance, insurance, real estate.....	21%	19%	
				services.....	25%	22%	
				government.....	17%	12%	

<sup>1</sup>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. Data on S&E doctorates awarded do not include health fields.

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.

### Federal Obligations for Research and Development by Agency and Performer: Maryland, Fiscal Year 2001

Agency	Performer							State rank, total
	Total	Federal intramural	All FFRDCs	Industrial firms	Universities & colleges	Other nonprofits	State & local government	
	[In thousands of dollars]							
Total, all agencies.....	9,290,382	5,435,114	213,386	2,060,408	1,143,680	430,301	7,493	2
Department of Agriculture.....	157,181	146,783	0	109	9,113	996	180	2
Department of Commerce.....	358,811	343,331	0	4,154	8,984	1,825	517	1
Department of Defense.....	2,761,570	1,359,452	697	1,111,441	271,757	18,159	64	3
Department of Energy.....	50,433	25,155	0	6,967	13,566	4,745	0	16
Dept. of Health & Human Services.....	4,478,704	3,229,303	212,689	169,481	576,363	286,683	4,185	1
Department of the Interior.....	14,773	14,409	0	79	199	0	86	10
Department of Transportation.....	25,123	8,740	0	9,573	4,753	0	2,057	6
Environmental Protection Agency.....	14,933	140	0	5,057	8,072	1,598	66	8
National Aeronautics and Space Admin....	1,344,974	305,570	0	750,083	185,961	103,022	338	2
National Science Foundation.....	83,880	2,231	0	3,464	64,912	13,273	0	11
State rank, total.....	2	1	9	4	4	3	16	na

KEY: FFRDC = federally funded research and development center; SBIR = small business innovation research; 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".