

Science and engineering profile: Arizona

Characteristic	State	U.S.	Rank
Doctoral scientists, 2003	7,200	566,330	24
Doctoral engineers, 2003	1,920 *	118,540	18
S&E doctorates awarded, 2005	473	27,974	21
Engineering (%)	26	23	-
Life sciences (%)	24	26	-
Social sciences (%)	18	15	-
S&E and health postdoctorates in doctorate-granting institutions, 2005	474	48,601	24
S&E and health graduate students in doctorate-granting institutions, 2005	7,692	527,767	23
Population, 2005 (thousands)	5,939	300,322	17
Civilian labor force, 2005 (thousands)	2,844	150,717	21
Personal income per capita, 2005 (dollars)	30,157	34,495	39
Federal spending			
Total expenditures, 2004 (\$millions)	41,979	2,136,440	18
R&D obligations, 2004 (\$millions)	2,216	98,936	14
Total R&D performance, 2004 (\$millions)	3,544	283,439	23
Industry R&D, 2004 (\$millions)	2,570	201,131	21
Academic R&D, 2005 (\$millions)	720	45,725	21
Life sciences (%)	47	60	-
Physical sciences (%)	24	8	-
Engineering (%)	15	15	-
SBIR awards, 2000-05	630	33,289	15
Utility patents issued to state residents, 2005	1,457	74,630	19
Gross domestic product, 2005 (\$billions)	217	12,492	20

*Coefficient of variation greater than 10% but less than 25%; -- = 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: Arizona, FY 2004
(Thousands of dollars)

Agency	Total	Performer					Rank	
		Federal intramural	All FFRDCs	Industrial firms	Universities and colleges	Other nonprofits		State, local governments
All agencies	2,216,321	263,004	55,697	1,579,888	286,678	16,746	14,308	14
Department of Agriculture	26,887	19,317	0	15	7,474	17	64	29
Department of Commerce	1,990	274	0	1	1,715	0	0	32
Department of Defense	1,764,119	223,262	0	1,513,908	23,672	194	3,083	9
Department of Energy	8,680	0	0	0	8,197	483	0	36
Department of Health and Human Services	165,211	994	0	8,263	139,120	13,982	2,852	27
Department of Homeland Security	16,194	12,006	0	4,188	0	0	0	18
Department of the Interior	9,454	7,151	0	131	1,684	38	450	13
Department of Transportation	5,698	0	0	1,471	381	305	3,541	23
Environmental Protection Agency	187	0	0	70	0	0	117	45
National Aeronautics and Space Administration	92,169	0	0	50,193	37,231	544	4,201	10
National Science Foundation	125,732	0	55,697	1,648	67,204	1,183	0	8
Rank	14	13	12	7	25	31	11	-

-- = 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.