

Science and Engineering Profile: Arizona

Characteristic	State	U.S.	Rank	Characteristic	State	U.S.	Rank
Doctoral scientists, 2001 ¹	6,720	542,940	26	Total R&D performance, 2000 (millions).....	\$3,107	\$244,855	19
Doctoral engineers, 2001 ¹	2,000	112,770	17	Industry R&D, 2000 (millions).....	\$2,445	\$187,544	18
S&E doctorates awarded, 2001 ¹	403	25,509	21	Academic R&D, 2001 (millions).....	\$501	\$32,716	20
of which, in engineering.....	25%	22%		of which, in life sciences.....	46%	59%	
in life sciences.....	22%	26%		in engineering.....	19%	15%	
in social sciences.....	16%	16%		in physical sciences.....	19%	9%	
S&E postdoctorates, 2001 ¹				Public higher education current-fund			
in doctorate-granting institutions.....	512	42,899	24	expenditures, 2000 (millions).....	\$2,508	\$152,068	23
S&E graduate students, 2001 ¹				Number of SBIR awards, 1999-2001.....	287	13,650	13
in doctorate-granting institutions.....	7,520	452,411	20	Utility patents issued to state residents, 2001.....	1,540	87,605	18
Population, 2002 (thousands).....	5,456	292,228	19	Gross state product, 2000 (billions).....	\$156	\$10,003	23
Civilian labor force, 2002 (thousands).....	2,672	146,712	21	of which, agriculture.....	1%	1%	
Personal income per capita, 2001.....	\$25,872	\$30,472	39	manufacturing, mining, construction.....	22%	22%	
Federal spending				transportation, communication, utilities.....	7%	8%	
Total expenditures, 2001 (millions).....	\$30,376	\$1,753,011	21	wholesale and retail trade.....	17%	16%	
R&D obligations, 2001 (millions).....	\$1,781	\$78,006	14	finance, insurance, real estate.....	18%	19%	
				services.....	22%	22%	
				government.....	12%	12%	

¹Data 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: Arizona, 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.....	1,781,454	235,031	40,384	1,258,944	222,842	18,113	6,140	14
Department of Agriculture.....	29,195	18,893	0	0	10,220	0	82	26
Department of Commerce.....	5,191	666	0	2,074	751	875	825	26
Department of Defense.....	1,386,250	198,626	0	1,159,088	28,506	30	0	8
Department of Energy.....	5,423	0	0	0	5,423	0	0	36
Dept. of Health & Human Services.....	148,650	4,887	0	23,827	103,965	13,685	2,286	29
Department of the Interior.....	9,141	7,421	0	56	1,408	22	234	15
Department of Transportation.....	4,796	79	0	914	770	546	2,487	24
Environmental Protection Agency.....	2,818	0	0	102	2,716	0	0	26
National Aeronautics and Space Admin....	101,361	4,459	0	71,624	22,369	2,683	226	11
National Science Foundation.....	88,629	0	40,384	1,259	46,714	272	0	9
State rank, total.....	14	17	14	7	26	30	25	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".