

Science and engineering profile: Arkansas

Characteristic	State	U.S.	Rank
Doctoral scientists, 2003	2,940	566,330	37
Doctoral engineers, 2003	320 **	118,540	42
S&E doctorates awarded, 2004	93	26,275	41
Life sciences (percent)	53	27	na
Engineering (percent)	20	22	na
Physical sciences (percent)	11	13	na
S&E and health postdoctorates in doctorate-granting institutions, 2003	121	46,807	39
S&E and health graduate students in doctorate-granting institutions, 2003	3,030	507,247	37
Population, 2004 (thousands)	2,753	297,550	33
Civilian labor force, 2004 (thousands)	1,306	148,769	34
Personal income per capita, 2004 (dollars)	25,724	33,041	49
Federal spending			
Total expenditures, 2003 (millions of dollars)	18,340	2,024,246	33
R&D obligations, 2003 (millions of dollars)	140	91,359	46
Total R&D performance, 2003 (millions of dollars)	509	277,577	43
Industry R&D, 2003 (millions of dollars)	270	198,244	42
Academic R&D, 2003 (millions of dollars)	183	40,055	40
Life sciences (percent)	69	59	na
Engineering (percent)	11	15	na
Physical sciences (percent)	6	8	na
Number of SBIR awards, 1999–2004	71	31,847	45
Utility patents issued to state residents, 2004	132	84,268	43
Gross state product, 2004 (billions of dollars)	81	11,744	34

**Coefficient of variation 25% or greater; 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: Arkansas, FY 2003
(Thousands of dollars)

Agency	Performer							Rank
	Total	Federal intramural	All FFRDCs	Industrial firms	Universities and colleges	Other nonprofits	State and local government	
All agencies	139,716	53,398	0	5,232	76,720	2,492	1,874	46
Department of Agriculture	35,831	19,317	0	0	16,514	0	0	19
Department of Commerce	0	0	0	0	0	0	0	na
Department of Defense	6,739	104	0	1,998	4,637	0	0	48
Department of Energy	312	0	0	0	312	0	0	51
Department of Health and Human Services	84,287	32,693	0	1,769	47,119	2,492	214	38
Department of the Interior	1,790	1,284	0	0	455	0	51	44
Department of Transportation	1,609	0	0	0	0	0	1,609	42
Environmental Protection Agency	411	0	0	70	341	0	0	42
National Aeronautics and Space Administration	1,054	0	0	0	1,054	0	0	50
National Science Foundation	7,683	0	0	1,395	6,288	0	0	47
Rank	46	39	na	49	42	47	43	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.