

Science and engineering profile: Alabama

Characteristic	State	U.S.	Rank
Doctoral scientists, 2003	5,330	566,330	28
Doctoral engineers, 2003	1,390 *	118,540	25
S&E doctorates awarded, 2004	285	26,275	27
Life sciences (percent)	34	27	na
Engineering (percent)	21	22	na
Physical sciences (percent)	13	13	na
S&E and health postdoctorates in doctorate-granting institutions, 2003	342	46,807	26
S&E and health graduate students in doctorate-granting institutions, 2003	7,851	507,247	23
Population, 2004 (thousands)	4,530	297,550	23
Civilian labor force, 2004 (thousands)	2,149	148,769	23
Personal income per capita, 2004 (dollars)	27,630	33,041	42
Federal spending			
Total expenditures, 2003 (millions of dollars)	36,871	2,024,246	19
R&D obligations, 2003 (millions of dollars)	2,933	91,359	8
Total R&D performance, 2003 (millions of dollars)	2,543	277,577	27
Industry R&D, 2003 (millions of dollars)	999	198,244	30
Academic R&D, 2003 (millions of dollars)	558	40,055	23
Life sciences (percent)	71	59	na
Engineering (percent)	16	15	na
Physical sciences (percent)	5	8	na
Number of SBIR awards, 1999–2004	592	31,847	14
Utility patents issued to state residents, 2004	375	84,268	35
Gross state product, 2004 (billions of dollars)	140	11,744	25

*Coefficient of variation greater than 10% but less than 25%; 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: Alabama, FY 2003
(Thousands of dollars)

Agency	Total	Performer					Rank	
		Federal intramural	All FFRDCs	Industrial firms	Universities and colleges	Other nonprofits		State and local government
All agencies	2,932,910	937,440	0	1,579,349	356,901	48,511	10,709	8
Department of Agriculture	25,575	8,621	0	0	16,954	0	0	29
Department of Commerce	1,872	59	0	212	1,601	0	0	38
Department of Defense	2,031,197	644,075	0	1,368,513	11,231	6,911	467	5
Department of Energy	11,652	0	0	775	10,877	0	0	30
Department of Health and Human Services	353,355	66,189	0	4,696	254,012	28,350	108	21
Department of the Interior	2,206	1,127	0	0	919	0	160	39
Department of Transportation	10,060	0	0	1,020	3,750	894	4,396	16
Environmental Protection Agency	2,287	0	0	702	731	854	0	26
National Aeronautics and Space Administration	476,779	217,369	0	203,188	39,156	11,488	5,578	5
National Science Foundation	17,927	0	0	243	17,670	14	0	38
Rank	8	5	na	5	21	19	8	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.