

Science and engineering profile: Louisiana

Characteristic	State	U.S.	Rank
Doctoral scientists, 2003	5,450	566,330	27
Doctoral engineers, 2003	770 *	118,540	32
S&E doctorates awarded, 2004	313	26,275	25
Life sciences (percent)	34	27	na
Engineering (percent)	20	22	na
Physical sciences (percent)	14	13	na
S&E and health postdoctorates in doctorate-granting institutions, 2003	380	46,807	25
S&E and health graduate students in doctorate-granting institutions, 2003	7,597	507,247	24
Population, 2004 (thousands)	4,516	297,550	24
Civilian labor force, 2004 (thousands)	2,058	148,769	24
Personal income per capita, 2004 (dollars)	27,219	33,041	43
Federal spending			
Total expenditures, 2003 (millions of dollars)	31,646	2,024,246	22
R&D obligations, 2003 (millions of dollars)	442	91,359	32
Total R&D performance, 2003 (millions of dollars)	954	277,577	39
Industry R&D, 2003 (millions of dollars)	295	198,244	41
Academic R&D, 2003 (millions of dollars)	524	40,055	24
Life sciences (percent)	63	59	na
Engineering (percent)	13	15	na
Physical sciences (percent)	7	8	na
Number of SBIR awards, 1999–2004	83	31,847	40
Utility patents issued to state residents, 2004	343	84,268	37
Gross state product, 2004 (billions of dollars)	153	11,744	24

*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: Louisiana, FY 2003
(Thousands of dollars)

Agency	Total	Performer					State and local government	Rank
		Federal intramural	All FFRDCs	Industrial firms	Universities and colleges	Other nonprofits		
All agencies	441,902	127,686	0	91,664	205,639	7,395	9,518	32
Department of Agriculture	45,931	33,829	0	60	11,952	40	50	16
Department of Commerce	4,457	165	0	72	2,575	653	992	30
Department of Defense	135,399	29,799	0	86,590	19,010	0	0	32
Department of Energy	6,157	0	0	225	5,335	597	0	39
Department of Health and Human Services	169,486	32,924	0	1,721	129,824	3,568	1,449	29
Department of the Interior	15,341	11,050	0	1,588	2,378	215	110	8
Department of Transportation	2,181	0	0	93	0	0	2,088	38
Environmental Protection Agency	3,127	0	0	0	3,127	0	0	25
National Aeronautics and Space Administration	36,984	19,803	0	1,315	12,144	2,322	1,400	16
National Science Foundation	22,839	116	0	0	19,294	0	3,429	33
Rank	32	27	na	31	28	37	9	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.