# Science and Engineering Profile: Louisiana

| Characteristic | State | U.S. | Rank | Characteristic | State | U.S. | Rank |
|---|---|---|---|---|---|---|---|
| Doctoral scientists, 2001[1] | 5,270 | 542,940 | 27 | Total R&D performance, 2000 (millions) | $627 | $244,855 | 38 |
| Doctoral engineers, 2001[1] | 870 | 112,770 | 31 | Industry R&D, 2000 (millions) | $126 | $187,544 | 43 |
| S&E doctorates awarded, 2001[1] | 334 | 25,509 | 25 | Academic R&D, 2001 (millions) | $432 | $32,716 | 25 |
| of which, in life sciences | 31% | 26% | | of which, in life sciences | 62% | 59% | |
| in physical sciences | 17% | 13% | | in engineering | 14% | 15% | |
| in engineering | 14% | 22% | | in environmental sciences | 8% | 6% | |
| S&E postdoctorates, 2001[1] | | | | Public higher education current-fund | | | |
| in doctorate-granting institutions | 271 | 42,899 | 31 | expenditures, 2000 (millions) | $3,237 | $152,068 | 17 |
| S&E graduate students, 2001[1] | | | | Number of SBIR awards, 1999-2001 | 35 | 13,650 | 40 |
| in doctorate-granting institutions | 6,576 | 452,411 | 24 | Utility patents issued to state residents, 2001 | 520 | 87,605 | 31 |
| Population, 2002 (thousands) | 4,483 | 292,228 | 24 | Gross state product, 2000 (billions) | $138 | $10,003 | 24 |
| Civilian labor force, 2002 (thousands) | 2,006 | 146,712 | 24 | of which, agriculture | 1% | 1% | |
| | | | | manufacturing, mining, construction | 33% | 22% | |
| Personal income per capita, 2001 | $24,535 | $30,472 | 45 | transportation, communication, utilities | 9% | 8% | |
| | | | | wholesale and retail trade | 14% | 16% | |
| Federal spending | | | | finance, insurance, real estate | 14% | 19% | |
| Total expenditures, 2001 (millions) | $27,816 | $1,753,011 | 22 | services | 17% | 22% | |
| R&D obligations, 2001 (millions) | $276 | $78,006 | 39 | government | 12% | 12% | |

[1]Data 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: Louisiana, 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 | 275,788 | 74,386 | 0 | 39,393 | 151,554 | 3,815 | 6,640 | 39 |
| Department of Agriculture | 44,259 | 33,600 | 0 | 0 | 10,619 | 40 | 0 | 16 |
| Department of Commerce | 4,459 | 142 | 0 | 742 | 3,575 | 0 | 0 | 27 |
| Department of Defense | 79,825 | 24,133 | 0 | 36,154 | 19,411 | 127 | 0 | 34 |
| Department of Energy | 5,329 | 0 | 0 | 0 | 5,329 | 0 | 0 | 37 |
| Dept. of Health & Human Services | 92,015 | 4,328 | 0 | 1,296 | 83,369 | 2,934 | 88 | 33 |
| Department of the Interior | 15,517 | 12,168 | 0 | 962 | 2,142 | 0 | 245 | 9 |
| Department of Transportation | 2,059 | 0 | 0 | 4 | 73 | 0 | 1,982 | 40 |
| Environmental Protection Agency | 4,448 | 0 | 0 | 0 | 4,330 | 0 | 118 | 22 |
| National Aeronautics and Space Admin | 5,944 | 15 | 0 | 36 | 5,193 | 700 | 0 | 39 |
| National Science Foundation | 21,933 | 0 | 0 | 199 | 17,513 | 14 | 4,207 | 31 |
| State rank, total | 39 | 29 | na | 41 | 29 | 45 | 20 | 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".