

Science and engineering profile: South Dakota

| Characteristic  | State   | U.S.      | Rank |
|---|---------|-----------|------|
| Doctoral scientists, 2003   | 1,120 * | 566,330   | 51   |
| Doctoral engineers, 2003  | 90 **   | 118,540   | 50   |
| S&E doctorates awarded, 2005  | 38      | 27,974    | 48   |
| Life sciences (%)   | 45      | 26        | -    |
| Psychology (%)  | 16      | 12        | -    |
| Environmental sciences (%)  | 13      | 3         | -    |
| S&E and health postdoctorates in doctorate-granting institutions, 2005    | 21      | 48,601    | 49   |
| S&E and health graduate students in doctorate-granting institutions, 2005 | 1,256   | 527,767   | 48   |
| Population, 2005 (thousands)  | 776     | 300,322   | 47   |
| Civilian labor force, 2005 (thousands)                                    | 432     | 150,717   | 47   |
| Personal income per capita, 2005 (dollars)                                | 32,642  | 34,495    | 27   |
| Federal spending  |         |           |      |
| Total expenditures, 2004 (\$millions)                                     | 6,602   | 2,136,440 | 48   |
| R&D obligations, 2004 (\$millions)  | 70      | 98,936    | 51   |
| Total R&D performance, 2004 (\$millions)                                  | 149     | 283,439   | 50   |
| Industry R&D, 2004 (\$millions)   | 72      | 201,131   | 48   |
| Academic R&D, 2005 (\$millions)   | 67      | 45,725    | 52   |
| Life sciences (%)   | 66      | 60        | -    |
| Engineering (%)   | 18      | 15        | -    |
| Social sciences (%)   | 5       | 4         | -    |
| SBIR awards, 2000-05  | 30      | 33,289    | 50   |
| Utility patents issued to state residents, 2005                           | 66      | 74,630    | 47   |
| Gross domestic product, 2005 (\$billions)                                 | 31      | 12,492    | 48   |

\*Coefficient of variation greater than 10% but less than 25%; \*\*Coefficient of variation 25% or greater; - = no value possible; 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. Rankings are based on unrounded totals. Reliability of estimates 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: South Dakota, FY 2004  
(Thousands of dollars)

| Agency  | Total  | Performer          |            |                  |                           |                  | Rank   |                          |
|---|--------|--------------------|------------|------------------|---------------------------|------------------|--------|--------------------------|
|   |        | Federal intramural | All FFRDCs | Industrial firms | Universities and colleges | Other nonprofits |        | State, local governments |
| All agencies                                  | 70,036 | 15,666             | 0          | 4,621            | 33,325                    | 3,846            | 12,578 | 51                       |
| Department of Agriculture                     | 9,741  | 4,116              | 0          | 0                | 5,550                     | 0                | 75     | 43                       |
| Department of Commerce                        | 17     | 3                  | 0          | 0                | 14                        | 0                | 0      | 50                       |
| Department of Defense                         | 7,888  | 65                 | 0          | 1,673            | 6,150                     | 0                | 0      | 50                       |
| Department of Energy                          | 123    | 0                  | 0          | 0                | 123                       | 0                | 0      | 52                       |
| Department of Health and Human Services       | 16,507 | 0                  | 0          | 612              | 11,819                    | 3,846            | 230    | 50                       |
| Department of Homeland Security               | 0      | 0                  | 0          | 0                | 0                         | 0                | 0      | -                        |
| Department of the Interior                    | 13,248 | 11,482             | 0          | 1,175            | 571                       | 0                | 20     | 9                        |
| Department of Transportation                  | 3,419  | 0                  | 0          | 579              | 989                       | 0                | 1,851  | 33                       |
| Environmental Protection Agency               | 714    | 0                  | 0          | 0                | 610                       | 0                | 104    | 39                       |
| National Aeronautics and Space Administration | 12,529 | 0                  | 0          | 71               | 2,160                     | 0                | 10,298 | 33                       |
| National Science Foundation                   | 5,850  | 0                  | 0          | 511              | 5,339                     | 0                | 0      | 52                       |
| Rank  | 51     | 46                 | -          | 50               | 50                        | 44               | 16     | -                        |

- = no value possible.

FFRDC = federally funded research and development center.

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.