

TABLE 72. Federal obligations for applied research performed at universities and colleges for selected agencies, by detailed field of science and engineering: FY 2008–10

(Dollars in thousands)

| Field | 2008 | Preliminary | |
|---|-----------|-------------|-----------|
| | | 2009 | 2010 |
| All fields | 9,164,487 | 9,536,687 | 9,510,237 |
| Environmental sciences | 142,291 | 165,941 | 151,902 |
| Atmospheric sciences | 16,075 | NA | NA |
| Geological sciences | 3,252 | NA | NA |
| Oceanography | 15,431 | NA | NA |
| Environmental sciences, nec | 107,533 | NA | NA |
| Life sciences | 6,965,665 | 7,190,374 | 7,282,492 |
| Agricultural sciences | 140,156 | NA | NA |
| Biological sciences (excluding environmental biology) | 3,453,285 | NA | NA |
| Environmental biology | 131,298 | NA | NA |
| Medical sciences | 2,644,158 | NA | NA |
| Life sciences, nec | 596,768 | NA | NA |
| Mathematics and computer sciences | 245,052 | 264,096 | 248,824 |
| Computer sciences | 171,003 | NA | NA |
| Mathematics | 61,404 | NA | NA |
| Mathematics and computer sciences, nec | 12,645 | NA | NA |
| Physical sciences | 252,666 | 268,221 | 265,279 |
| Astronomy | 2,956 | NA | NA |
| Chemistry | 123,625 | NA | NA |
| Physics | 88,550 | NA | NA |
| Physical sciences, nec | 37,535 | NA | NA |
| Psychology | 482,772 | 502,208 | 511,340 |
| Biological aspects | 2,376 | NA | NA |
| Social aspects | 5,500 | NA | NA |
| Psychological sciences, nec | 474,896 | NA | NA |
| Social sciences | 130,512 | 149,413 | 139,263 |
| Anthropology | 597 | NA | NA |
| Economics | 36,248 | NA | NA |
| Political science | 1,103 | NA | NA |
| Sociology | 9,826 | NA | NA |
| Social sciences, nec | 82,738 | NA | NA |
| Other sciences, nec | 90,300 | 98,076 | 103,270 |
| Engineering | 855,229 | 898,358 | 807,867 |
| Aeronautical engineering | 45,036 | NA | NA |
| Astronautical engineering | 13,789 | NA | NA |
| Chemical engineering | 39,184 | NA | NA |
| Civil engineering | 39,567 | NA | NA |
| Electrical engineering | 97,090 | NA | NA |
| Mechanical engineering | 24,495 | NA | NA |
| Metallurgy and materials engineering | 88,504 | NA | NA |
| Engineering, nec | 507,564 | NA | NA |

NA = not available; data collected for this table were not recorded at that level in that particular fiscal year.

nec = not elsewhere classified.

NOTES: Seven agencies are required to report data for this section of survey: Departments of Agriculture, Defense, Energy, Health and Human Services, and Homeland Security; National Aeronautics and Space Administration; and National Science Foundation. Applied research obligations of these seven agencies represented over 94% of total federal applied research obligations to universities and colleges in FY 2008, 2009, and 2010. Only those agencies and subdivisions that had obligations in variables represented by this table appear in table. See appendix C for additional notes associated with agencies listed in this table.

SOURCE: National Science Foundation/National Center for Science and Engineering Statistics, Survey of Federal Funds for Research and Development: FY 2008–10.