

TABLE 7. Preliminary federal obligations for research and development, by agency and character of work: FY 2012
(Dollars in thousands)

| Agency | Total R&D | Basic research | Applied research | Development | | |
|--|---------------|----------------|------------------|--------------|---------------------|---------------|
| | | | | Total | Advanced technology | Major systems |
| All agencies | 130,952,397.0 | 30,664,782.9 | 30,047,539.8 | 70,240,073.8 | NA | NA |
| Departments | | | | | | |
| Department of Agriculture | 2,377,934.5 | 1,002,841.9 | 1,166,226.2 | 208,866.3 | NA | NA |
| Agricultural Marketing Service | 4,287.0 | 0.0 | 2,143.5 | 2,143.5 | NA | NA |
| Agricultural Research Service | 1,200,000.0 | 600,000.0 | 480,000.0 | 120,000.0 | NA | NA |
| Animal and Plant Health Inspection Service | 27,963.4 | 0.0 | 0.0 | 27,963.4 | NA | NA |
| Economic Research Service | 77,803.0 | 1,939.0 | 75,864.0 | 0.0 | NA | NA |
| Foreign Agricultural Service | 435.5 | 121.9 | 313.5 | 0.0 | NA | NA |
| Forest Service | 325,000.0 | 93,165.4 | 173,075.2 | 58,759.4 | NA | NA |
| Grain Inspection, Packers, and Stockyards Administration | 6,690.6 | 6,690.6 | 0.0 | 0.0 | NA | NA |
| National Agricultural Statistics Service | 7,300.0 | 3,200.0 | 4,100.0 | 0.0 | NA | NA |
| National Institute of Food and Agriculture | 724,255.0 | 297,725.0 | 426,530.0 | 0.0 | NA | NA |
| Rural Business-Cooperative Service | 4,200.0 | 0.0 | 4,200.0 | 0.0 | NA | NA |
| Department of Commerce | 1,495,093.9 | 187,847.3 | 1,064,867.4 | 242,379.2 | NA | NA |
| Economic Development Administration | 5,180.0 | 1,500.0 | 3,680.0 | 0.0 | NA | NA |
| National Institute of Standards and Technology | 794,188.8 | 186,347.3 | 497,067.0 | 110,774.4 | NA | NA |
| National Oceanic and Atmospheric Administration | 574,591.0 | 0.0 | 489,599.1 | 84,991.9 | NA | NA |
| National Telecommunications and Information Administration | 8,829.1 | 0.0 | 8,829.1 | 0.0 | NA | NA |
| U.S. Census Bureau | 112,304.9 | 0.0 | 65,692.1 | 46,612.8 | NA | NA |
| Department of Defense | 70,868,925.8 | 1,983,249.2 | 4,696,449.8 | 64,189,226.8 | 5,857,093.0 | 58,332,133.8 |
| Defense agencies and activities | 13,754,934.0 | 438,179.8 | 1,723,514.9 | 11,593,239.4 | 3,455,289.1 | 8,137,950.2 |
| Chemical and Biological Defense | 336,932.4 | 21,573.3 | 113,661.9 | 201,697.2 | 122,923.3 | 78,773.9 |
| Defense Advanced Research Projects Agency | 2,996,756.0 | 328,598.0 | 1,307,234.0 | 1,360,924.0 | 1,283,278.0 | 77,646.0 |
| Defense Contract Management Agency | 12,207.9 | 0.0 | 0.0 | 12,207.9 | 0.0 | 12,207.9 |
| Defense Information Systems Agency | 226,360.6 | 0.0 | 0.0 | 226,360.6 | 0.0 | 226,360.6 |
| Defense Logistics Agency | 146,705.1 | 0.0 | 0.0 | 146,705.1 | 135,527.1 | 11,178.0 |
| Defense Security Cooperation Agency | 2,469.0 | 0.0 | 0.0 | 2,469.0 | 0.0 | 2,469.0 |
| Defense Technical Information Ctr. | 56,360.3 | 0.0 | 0.0 | 56,360.3 | 0.0 | 56,360.3 |
| Defense Threat Reduction Agency | 533,652.0 | 47,737.0 | 196,954.0 | 288,961.0 | 283,073.0 | 5,888.0 |
| Joint Staff | 85,009.0 | 0.0 | 0.0 | 85,009.0 | 0.0 | 85,009.0 |
| Missile Defense Agency | 6,917,248.0 | 0.0 | 0.0 | 6,917,248.0 | 537,637.7 | 6,379,610.3 |
| Office of the Secretary of Defense | 2,022,354.8 | 40,271.4 | 78,836.0 | 1,903,247.3 | 1,051,847.0 | 851,400.3 |
| Special Operations Command | 418,879.0 | 0.0 | 26,829.0 | 392,050.0 | 41,003.0 | 351,047.0 |
| Department of the Air Force | 29,462,648.3 | 528,450.8 | 1,336,110.3 | 27,598,087.3 | 813,681.1 | 26,784,406.2 |
| Department of the Army | 9,626,574.1 | 440,713.7 | 860,388.7 | 8,325,471.7 | 933,520.8 | 7,391,950.9 |
| Department of the Navy | 17,833,690.4 | 575,905.0 | 776,436.0 | 16,481,349.4 | 654,602.0 | 15,826,747.4 |
| Operational Test and Evaluation, Director | 191,079.0 | 0.0 | 0.0 | 191,079.0 | 0.0 | 191,079.0 |
| Department of Education | 399,294.7 | 8,305.7 | 235,422.1 | 155,566.9 | NA | NA |
| Department of Energy | 10,314,506.0 | 4,207,237.1 | 3,646,931.0 | 2,460,337.9 | NA | NA |
| Advanced Research Projects Agency-Energy | 178,068.0 | 0.0 | 142,454.4 | 35,613.6 | NA | NA |
| Bonneville Power Administration | 15,336.3 | 9,201.8 | 4,600.9 | 1,533.6 | NA | NA |
| Electricity Delivery and Energy Reliability | 179,377.0 | 11,077.3 | 103,338.3 | 64,961.4 | NA | NA |
| Energy Efficiency and Renewable Energy | 999,658.0 | 7,953.0 | 575,768.0 | 415,937.0 | NA | NA |
| Environmental Management | 133,233.0 | 0.0 | 44,366.9 | 88,866.1 | NA | NA |
| Fossil Energy | 296,485.0 | 2,965.0 | 130,453.0 | 163,067.0 | NA | NA |
| National Nuclear Security Administration | 3,998,721.6 | 39,787.1 | 2,294,304.4 | 1,664,630.1 | NA | NA |
| Defense Programs | 2,619,042.0 | 0.0 | 2,064,412.0 | 554,630.0 | NA | NA |
| Naval Reactors | 1,062,204.0 | 0.0 | 0.0 | 1,062,204.0 | NA | NA |
| Nonproliferation and Verification | 317,475.6 | 39,787.1 | 229,892.4 | 47,796.1 | NA | NA |
| Nuclear Energy | 377,374.0 | 0.0 | 351,645.0 | 25,729.0 | NA | NA |
| Office of Science | 4,136,253.0 | 4,136,253.0 | 0.0 | 0.0 | NA | NA |

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| Agency | Total R&D | Basic research | Applied research | Development | | |
|---|--------------|----------------|------------------|-------------|---------------------|---------------|
| | | | | Total | Advanced technology | Major systems |
| Department of Health and Human Services | 32,073,370.6 | 16,585,189.8 | 15,394,334.6 | 93,846.2 | NA | NA |
| Administration for Children and Families | 7,041.2 | 0.0 | 7,041.2 | 0.0 | NA | NA |
| Agency for Healthcare Research and Quality | 610,912.0 | 0.0 | 562,039.0 | 48,873.0 | NA | NA |
| Agency for Toxic Substances and Disease Registry | 3,492.7 | 0.0 | 3,492.7 | 0.0 | NA | NA |
| Ctrs. for Disease Control and Prevention | 413,956.0 | 83,081.8 | 295,188.6 | 35,685.6 | NA | NA |
| Ctrs. for Medicare and Medicaid Services | 31,200.0 | 0.0 | 31,200.0 | 0.0 | NA | NA |
| Food and Drug Administration | 233,069.8 | 0.0 | 233,069.8 | 0.0 | NA | NA |
| Health Resources and Services Administration | 35,553.8 | 2,486.0 | 23,780.2 | 9,287.7 | NA | NA |
| National Institutes of Health | 30,718,545.0 | 16,499,622.0 | 14,218,923.0 | 0.0 | NA | NA |
| Office of the Secretary | 19,600.0 | 0.0 | 19,600.0 | 0.0 | NA | NA |
| Office of the Assistant Secretary, Planning and Evaluation | 19,600.0 | 0.0 | 19,600.0 | 0.0 | NA | NA |
| Department of Homeland Security | 710,567.7 | 106,526.2 | 233,871.2 | 370,170.3 | NA | NA |
| Science and Technology Directorate | 689,919.7 | 106,526.2 | 226,977.2 | 356,416.3 | NA | NA |
| U.S. Coast Guard | 20,648.0 | 0.0 | 6,894.0 | 13,754.0 | NA | NA |
| Department of Housing and Urban Development | 105,795.0 | 0.0 | 72,405.1 | 33,389.9 | NA | NA |
| Department of the Interior | 708,837.2 | 57,214.0 | 552,552.2 | 99,071.0 | NA | NA |
| Bureau of Ocean Energy Management, Regulation and Enforcement | 46,042.2 | 0.0 | 46,042.2 | 0.0 | NA | NA |
| Bureau of Reclamation | 9,195.0 | 0.0 | 6,896.0 | 2,299.0 | NA | NA |
| U.S. Geological Survey | 653,600.0 | 57,214.0 | 499,614.0 | 96,772.0 | NA | NA |
| Department of Justice | 43,945.9 | 11,000.0 | 14,886.7 | 18,059.2 | NA | NA |
| Bureau of Prisons | 11,205.0 | 0.0 | 2,820.0 | 8,385.0 | NA | NA |
| Federal Bureau of Investigation | 17,740.9 | 0.0 | 8,066.7 | 9,674.2 | NA | NA |
| Office of Justice Programs | 15,000.0 | 11,000.0 | 4,000.0 | 0.0 | NA | NA |
| Department of Labor | 10,499.2 | 0.0 | 8,847.2 | 1,652.0 | NA | NA |
| Employee Benefits Security Administration | 2,471.2 | 0.0 | 2,471.2 | 0.0 | NA | NA |
| Occupational Safety and Health Administration | 6,211.0 | 0.0 | 6,211.0 | 0.0 | NA | NA |
| Pension Benefit Guaranty Corp. | 1,817.0 | 0.0 | 165.0 | 1,652.0 | NA | NA |
| Department of State | 3,258.2 | 0.0 | 3,258.2 | 0.0 | NA | NA |
| Department of Transportation | 986,032.3 | 18,000.0 | 672,311.9 | 295,720.4 | NA | NA |
| Federal Aviation Administration | 392,745.7 | 0.0 | 236,510.0 | 156,235.7 | NA | NA |
| Federal Highway Administration | 346,519.6 | 18,000.0 | 285,613.7 | 42,905.9 | NA | NA |
| Federal Motor Carrier Safety Administration | 6,932.0 | 0.0 | 6,551.1 | 380.9 | NA | NA |
| Federal Railroad Administration | 92,604.0 | 0.0 | 18,925.0 | 73,679.0 | NA | NA |
| Federal Transit Administration | 31,055.0 | 0.0 | 28,555.0 | 2,500.0 | NA | NA |
| National Highway Traffic Safety Administration | 89,452.0 | 0.0 | 89,452.0 | 0.0 | NA | NA |
| Office of the Secretary | 9,824.0 | 0.0 | 0.0 | 9,824.0 | NA | NA |
| Pipeline and Hazardous Materials Safety Administration | 10,115.0 | 0.0 | 2,230.0 | 7,885.0 | NA | NA |
| Research and Innovative Technology Administration | 6,785.0 | 0.0 | 4,475.0 | 2,310.0 | NA | NA |
| Department of the Treasury | 75,974.4 | 171.8 | 75,373.2 | 429.4 | NA | NA |
| Bureau of Engraving and Printing | 3,829.4 | 171.8 | 3,228.2 | 429.4 | NA | NA |
| Internal Revenue Service | 70,537.0 | 0.0 | 70,537.0 | 0.0 | NA | NA |
| U.S. Mint | 1,608.0 | 0.0 | 1,608.0 | 0.0 | NA | NA |
| Department of Veterans Affairs | 521,000.0 | 201,000.0 | 285,000.0 | 35,000.0 | NA | NA |
| Other agencies | | | | | | |
| Agency for International Development | 76,080.3 | 737.6 | 75,342.8 | 0.0 | NA | NA |
| Appalachian Regional Commission | 730.0 | 0.0 | 730.0 | 0.0 | NA | NA |
| Environmental Protection Agency | 578,873.0 | 89,136.0 | 403,937.0 | 85,800.0 | NA | NA |
| Federal Communications Commission | 3,890.4 | 0.0 | 3,890.4 | 0.0 | NA | NA |
| Federal Trade Commission | 2,032.3 | 0.0 | 2,032.3 | 0.0 | NA | NA |
| Library of Congress | 1,399.8 | 0.0 | 710.0 | 689.8 | NA | NA |
| National Aeronautics and Space Administration | 3,586,373.4 | 940,456.3 | 696,048.5 | 1,949,868.6 | NA | NA |

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(Dollars in thousands)

| Agency | Total R&D | Basic research | Applied research | Development | | |
|--|-------------|----------------|------------------|-------------|---------------------|---------------|
| | | | | Total | Advanced technology | Major systems |
| National Archives and Records Administration | 2,500.0 | 0.0 | 2,500.0 | 0.0 | NA | NA |
| National Science Foundation | 5,662,610.0 | 5,095,870.0 | 566,740.0 | 0.0 | NA | NA |
| Nuclear Regulatory Commission | 78,114.0 | 0.0 | 78,114.0 | 0.0 | NA | NA |
| Smithsonian Institution | 170,000.0 | 170,000.0 | 0.0 | 0.0 | NA | NA |
| Social Security Administration | 94,758.0 | 0.0 | 94,758.0 | 0.0 | NA | NA |

NA = not available; data are not collected in this category for this agency.

NOTES: Because of rounding, detail may not add to total. 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: FYs 2010–12.