

TABLE A-16. Imputed amounts for total and federally financed higher education R&D equipment expenditures, by R&D field: FY 2010  
(Dollars in millions)

| R&D field                                       | Total                                    |                |                              | Federally financed                       |                |                              |
|---|--|----------------|------------------------------|--|----------------|------------------------------|
|   | All separately budgeted R&D expenditures | Imputed amount | Imputed amount as % of total | All separately budgeted R&D expenditures | Imputed amount | Imputed amount as % of total |
| All R&D fields                                  | 2,148                                    | 7              | 0.3                          | 1,351                                    | 5              | 0.4                          |
| All science and engineering                     | 2,114                                    | 86             | 4.1                          | 1,341                                    | 33             | 2.5                          |
| Computer sciences                               | 65                                       | 8              | 12.4                         | 46                                       | 3              | 6.0                          |
| Environmental sciences                          | 151                                      | 2              | 1.5                          | 116                                      | 1              | 1.2                          |
| Atmospheric sciences                            | 24                                       | 1              | 3.4                          | 20                                       | 0              | 1.3                          |
| Earth sciences                                  | 52                                       | 0              | 0.2                          | 36                                       | 0              | 0.3                          |
| Oceanography                                    | 58                                       | 1              | 1.0                          | 47                                       | 0              | 0.8                          |
| Environmental sciences, nec                     | 17                                       | 1              | 4.7                          | 14                                       | 1              | 4.7                          |
| Life sciences                                   | 905                                      | 16             | 1.7                          | 569                                      | 13             | 2.3                          |
| Agricultural sciences                           | 79                                       | 0              | 0.0                          | 25                                       | 0              | 0.0                          |
| Biological sciences                             | 394                                      | 5              | 1.3                          | 279                                      | 4              | 1.6                          |
| Medical sciences                                | 389                                      | 9              | 2.2                          | 241                                      | 7              | 2.8                          |
| Life sciences, nec                              | 43                                       | 2              | 4.7                          | 24                                       | 2              | 7.7                          |
| Mathematical sciences                           | 8  | 3              | 41.7                         | 5  | 1              | 25.6                         |
| Physical sciences                               | 363                                      | 6              | 1.7                          | 275                                      | 5              | 1.8                          |
| Astronomy                                       | 24                                       | 1              | 4.7                          | 19                                       | 1              | 5.8                          |
| Chemistry                                       | 162                                      | 1              | 0.9                          | 113                                      | 1              | 1.1                          |
| Physics   | 154                                      | 3              | 2.2                          | 125                                      | 3              | 2.1                          |
| Physical sciences, nec                          | 24                                       | 0              | 1.2                          | 18                                       | 0              | 1.0                          |
| Psychology                                      | 17                                       | 0              | 1.0                          | 12                                       | 0              | 1.2                          |
| Social sciences                                 | 15                                       | 0              | 3.4                          | 7  | 0              | 4.7                          |
| Economics                                       | 1  | 0              | 16.5                         | 1  | 0              | 22.1                         |
| Political sciences                              | 1  | 0              | 10.3                         | 1  | 0              | 15.5                         |
| Sociology                                       | 2  | 0              | 1.9                          | 1  | 0              | 0.3                          |
| Social sciences, nec                            | 10                                       | 0              | 1.1                          | 4  | 0              | 1.8                          |
| Sciences, nec                                   | 78                                       | 21             | 27.5                         | 15                                       | 0              | 0.8                          |
| Engineering                                     | 512                                      | 29             | 5.6                          | 297                                      | 9              | 3.1                          |
| Aeronautical/astronautical engineering          | 34                                       | 11             | 33.1                         | 19                                       | 1              | 4.4                          |
| Bioengineering/biomedical engineering           | 39                                       | 1              | 1.6                          | 25                                       | 1              | 2.5                          |
| Chemical engineering                            | 51                                       | 0              | 0.4                          | 26                                       | 0              | 0.7                          |
| Civil engineering                               | 35                                       | 0              | 1.4                          | 16                                       | 0              | 2.5                          |
| Electrical engineering                          | 112                                      | 6              | 5.7                          | 77                                       | 2              | 3.1                          |
| Mechanical engineering                          | 98                                       | 2              | 2.0                          | 56                                       | 2              | 3.1                          |
| Metallurgical/materials engineering             | 65                                       | 0              | 0.0                          | 31                                       | 0              | 0.0                          |
| Engineering, nec                                | 78                                       | 7              | 9.6                          | 48                                       | 3              | 6.5                          |
| All non-science and engineering                 | 34                                       | 1              | 1.7                          | 10                                       | 0              | 2.7                          |
| Business and management                         | 8  | 0              | 0.6                          | 1  | 0              | 1.1                          |
| Communications, journalism, and library science | 8  | 0              | 0.1                          | 1  | 0              | 0.1                          |
| Education                                       | 6  | 0              | 4.2                          | 4  | 0              | 3.7                          |
| Humanities                                      | 2  | 0              | 7.6                          | 0  | 0              | 6.8                          |
| Law   | 0  | 0              | 0.4                          | 0  | 0              | 0.0                          |
| Social work                                     | 0  | 0              | 0.3                          | 0  | 0              | 0.0                          |
| Visual and performing arts                      | 1  | 0              | 1.2                          | 0  | 0              | 0.0                          |
| Non-science and engineering, nec                | 9  | 0              | 1.4                          | 3  | 0              | 2.4                          |

nec = not elsewhere classified.

NOTES: Imputation rate at total level is lower than imputation rates at R&D field levels because some institutions could provide totals but not R&D field details. Because of rounding, detail may not add to total. Percentages calculated on unrounded numbers.

SOURCE: National Science Foundation/National Center for Science and Engineering Statistics, Higher Education Research and Development Survey, FY 2010.