

Appendix table 5-29

(Page 1 of 2)

**Estimates of total academic S&E doctoral employment, S&E doctoral researchers, and S&E graduate research assistants, by Carnegie institution type and work activity: 1975–2001**

| Institution type                       | All positions |                      | Researchers |                      | Research as primary activity |                      | Research assistants |                      |
|--|---------------|----------------------|-------------|----------------------|------------------------------|----------------------|---------------------|----------------------|
|  | Thousands     | Percent distribution | Thousands   | Percent distribution | Thousands                    | Percent distribution | Thousands           | Percent distribution |
| <b>All U&amp;C</b>                     |               |                      |             |                      |                              |                      |                     |                      |
| 1975 .....                             | 134.1         | 100.0                | 90.6        | 100.0                | 30.8                         | 100.0                | 40.0                | 100.0                |
| 1977 .....                             | 145.4         | 100.0                | 85.0        | 100.0                | 37.0                         | 100.0                | 43.7                | 100.0                |
| 1979 .....                             | 155.3         | 100.0                | 90.0        | 100.0                | 41.3                         | 100.0                | 49.0                | 100.0                |
| 1981 .....                             | 167.1         | 100.0                | 100.7       | 100.0                | 46.5                         | 100.0                | 52.7                | 100.0                |
| 1983 .....                             | 176.1         | 100.0                | 104.7       | 100.0                | 48.9                         | 100.0                | 54.9                | 100.0                |
| 1985 .....                             | 190.2         | 100.0                | 115.2       | 100.0                | 55.9                         | 100.0                | 61.0                | 100.0                |
| 1987 .....                             | 195.9         | 100.0                | 144.0       | 100.0                | 66.5                         | 100.0                | 70.2                | 100.0                |
| 1989 .....                             | 206.6         | 100.0                | 151.6       | 100.0                | 72.2                         | 100.0                | 79.1                | 100.0                |
| 1991 .....                             | 210.6         | 100.0                | 156.6       | 100.0                | 73.9                         | 100.0                | 85.2                | 100.0                |
| 1993 .....                             | 213.8         | 100.0                | 150.1       | 100.0                | 80.2                         | 100.0                | 90.2                | 100.0                |
| 1995 .....                             | 217.5         | 100.0                | 153.5       | 100.0                | 83.0                         | 100.0                | 89.9                | 100.0                |
| 1997 .....                             | 232.5         | 100.0                | 164.7       | 100.0                | 88.6                         | 100.0                | 88.0                | 100.0                |
| 1999 .....                             | 240.2         | 100.0                | 168.1       | 100.0                | 91.4                         | 100.0                | 91.3                | 100.0                |
| 2001 .....                             | 245.5         | 100.0                | 172.5       | 100.0                | 93.8                         | 100.0                | 99.7                | 100.0                |
| <b>Research universities</b>           |               |                      |             |                      |                              |                      |                     |                      |
| 1975 .....                             | 73.4          | 54.7                 | 58.0        | 64.0                 | 25.5                         | 82.8                 | 35.6                | 89.0                 |
| 1977 .....                             | 78.2          | 53.8                 | 55.9        | 65.8                 | 29.5                         | 79.7                 | 38.8                | 88.8                 |
| 1979 .....                             | 83.5          | 53.8                 | 59.0        | 65.6                 | 32.1                         | 77.7                 | 42.6                | 86.9                 |
| 1981 .....                             | 91.0          | 54.5                 | 66.6        | 66.1                 | 37.5                         | 80.6                 | 45.2                | 85.8                 |
| 1983 .....                             | 89.9          | 51.1                 | 66.3        | 63.3                 | 37.4                         | 76.5                 | 47.1                | 85.8                 |
| 1985 .....                             | 102.8         | 54.0                 | 75.1        | 65.2                 | 45.4                         | 81.2                 | 52.2                | 85.6                 |
| 1987 .....                             | 106.9         | 54.6                 | 90.0        | 62.5                 | 53.7                         | 80.8                 | 59.9                | 85.3                 |
| 1989 .....                             | 112.5         | 54.5                 | 94.7        | 62.5                 | 58.1                         | 80.5                 | 66.5                | 84.1                 |
| 1991 .....                             | 111.6         | 53.0                 | 93.8        | 59.9                 | 57.9                         | 78.3                 | 70.1                | 82.3                 |
| 1993 .....                             | 112.9         | 52.8                 | 91.1        | 60.7                 | 60.6                         | 75.6                 | 73.9                | 81.9                 |
| 1995 .....                             | 112.8         | 51.9                 | 92.0        | 59.9                 | 62.4                         | 75.2                 | 73.1                | 81.3                 |
| 1997 .....                             | 113.6         | 48.9                 | 92.3        | 56.0                 | 60.6                         | 68.4                 | 70.6                | 80.2                 |
| 1999 .....                             | 117.2         | 48.8                 | 95.5        | 56.8                 | 64.3                         | 70.4                 | 73.1                | 80.1                 |
| 2001 .....                             | 119.6         | 48.7                 | 97.8        | 56.7                 | 66.9                         | 71.3                 | 79.7                | 79.9                 |
| <b>Doctorate granting institutions</b> |               |                      |             |                      |                              |                      |                     |                      |
| 1975 .....                             | 15.9          | 11.9                 | 10.6        | 11.7                 | 1.8                          | 5.8                  | 3.7                 | 9.3                  |
| 1977 .....                             | 17.2          | 11.8                 | 9.4         | 11.1                 | 2.4                          | 6.5                  | 4.0                 | 9.2                  |
| 1979 .....                             | 17.2          | 11.1                 | 9.2         | 10.2                 | 2.6                          | 6.3                  | 4.4                 | 9.0                  |
| 1981 .....                             | 18.8          | 11.3                 | 10.5        | 10.4                 | 2.6                          | 5.6                  | 5.0                 | 9.5                  |
| 1983 .....                             | 19.5          | 11.1                 | 10.7        | 10.2                 | 2.8                          | 5.7                  | 5.3                 | 9.7                  |
| 1985 .....                             | 21.2          | 11.1                 | 12.4        | 10.8                 | 3.5                          | 6.3                  | 5.8                 | 9.5                  |
| 1987 .....                             | 22.2          | 11.3                 | 16.2        | 11.3                 | 4.4                          | 6.6                  | 6.7                 | 9.5                  |
| 1989 .....                             | 23.5          | 11.4                 | 16.8        | 11.1                 | 4.9                          | 6.8                  | 7.9                 | 10.0                 |
| 1991 .....                             | 24.9          | 11.8                 | 18.4        | 11.7                 | 5.9                          | 8.0                  | 9.2                 | 10.8                 |
| 1993 .....                             | 24.2          | 11.3                 | 17.4        | 11.6                 | 6.7                          | 8.4                  | 9.9                 | 11.0                 |
| 1995 .....                             | 25.0          | 11.5                 | 17.7        | 11.5                 | 7.2                          | 8.7                  | 9.9                 | 11.0                 |
| 1997 .....                             | 25.8          | 11.1                 | 19.1        | 11.6                 | 8.2                          | 9.3                  | 10.3                | 11.7                 |
| 1999 .....                             | 26.3          | 10.9                 | 19.3        | 11.5                 | 8.2                          | 9.0                  | 10.7                | 11.7                 |
| 2001 .....                             | 26.3          | 10.7                 | 18.8        | 10.9                 | 7.7                          | 8.2                  | 12.2                | 12.3                 |
| <b>Comprehensive institutions</b>      |               |                      |             |                      |                              |                      |                     |                      |
| 1975 .....                             | 24.8          | 18.5                 | 12.5        | 13.8                 | 0.8                          | 2.7                  | 0.4                 | 0.9                  |
| 1977 .....                             | 26.5          | 18.2                 | 10.3        | 12.1                 | 1.3                          | 3.5                  | 0.4                 | 1.0                  |
| 1979 .....                             | 26.9          | 17.3                 | 10.3        | 11.5                 | 1.7                          | 4.1                  | 1.4                 | 2.9                  |
| 1981 .....                             | 30.5          | 18.3                 | 12.0        | 11.9                 | 1.2                          | 2.6                  | 1.7                 | 3.3                  |
| 1983 .....                             | 31.6          | 17.9                 | 12.8        | 12.2                 | 1.4                          | 2.9                  | 1.9                 | 3.5                  |
| 1985 .....                             | 35.6          | 18.7                 | 14.4        | 12.5                 | 1.5                          | 2.7                  | 1.3                 | 2.1                  |
| 1987 .....                             | 36.0          | 18.4                 | 20.1        | 14.0                 | 1.8                          | 2.7                  | 1.6                 | 2.2                  |
| 1989 .....                             | 38.4          | 18.6                 | 21.5        | 14.2                 | 2.4                          | 3.4                  | 2.9                 | 3.7                  |
| 1991 .....                             | 39.5          | 18.8                 | 24.0        | 15.3                 | 2.8                          | 3.9                  | 3.8                 | 4.5                  |
| 1993 .....                             | 39.5          | 18.5                 | 21.5        | 14.3                 | 4.1                          | 5.1                  | 4.0                 | 4.4                  |
| 1995 .....                             | 41.5          | 19.1                 | 23.0        | 15.0                 | 4.3                          | 5.2                  | 4.5                 | 5.0                  |
| 1997 .....                             | 42.0          | 18.1                 | 23.7        | 14.4                 | 4.7                          | 5.3                  | 4.4                 | 5.0                  |
| 1999 .....                             | 43.6          | 18.2                 | 23.5        | 14.0                 | 3.9                          | 4.2                  | 4.8                 | 5.2                  |
| 2001 .....                             | 44.8          | 18.2                 | 26.0        | 15.1                 | 4.3                          | 4.6                  | 4.8                 | 4.9                  |