

TABLE 13. Bachelor's degrees awarded to blacks or African Americans by all institutions and by historically black colleges and universities, by field: 2002–12

| Field   | 2002    | 2003    | 2004    | 2005    | 2006    | 2007    | 2008    | 2009    | 2010    | 2011    | 2012    |
|---|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| All institutions, all fields                            | 111,330 | 117,902 | 123,636 | 127,978 | 133,743 | 137,566 | 142,576 | 145,988 | 152,404 | 161,005 | 172,868 |
| Science and engineering                                 | 34,899  | 36,961  | 38,737  | 39,846  | 40,108  | 40,401  | 41,263  | 41,822  | 43,428  | 46,341  | 49,683  |
| Science   | 31,917  | 33,869  | 35,510  | 36,640  | 36,899  | 37,237  | 38,162  | 38,726  | 40,346  | 43,244  | 46,465  |
| Agricultural sciences                                   | 454     | 452     | 450     | 444     | 485     | 481     | 557     | 510     | 595     | 575     | 704     |
| Biological sciences                                     | 4,632   | 4,878   | 5,039   | 5,052   | 5,366   | 5,857   | 6,003   | 6,253   | 6,434   | 6,677   | 7,073   |
| Computer sciences                                       | 5,057   | 6,083   | 6,259   | 5,815   | 5,275   | 4,588   | 4,011   | 3,868   | 4,066   | 4,418   | 4,847   |
| Earth, atmospheric, and ocean sciences                  | 62      | 60      | 65      | 68      | 58      | 79      | 89      | 88      | 97      | 105     | 119     |
| Mathematical sciences                                   | 843     | 790     | 783     | 855     | 847     | 832     | 796     | 842     | 834     | 821     | 964     |
| Physical sciences                                       | 1,018   | 928     | 958     | 965     | 1,040   | 1,043   | 1,084   | 1,133   | 1,088   | 1,125   | 1,305   |
| Astronomy   | 3       | 1       | 3       | 4       | 9       | 3       | 6       | 5       | 7       | 5       | 3       |
| Chemistry   | 796     | 744     | 756     | 760     | 827     | 852     | 910     | 935     | 893     | 918     | 1,101   |
| Physics   | 182     | 147     | 166     | 166     | 171     | 163     | 144     | 149     | 143     | 149     | 142     |
| Other physical sciences                                 | 37      | 36      | 33      | 35      | 33      | 25      | 24      | 44      | 45      | 53      | 59      |
| Psychology  | 7,748   | 8,014   | 8,485   | 9,141   | 9,097   | 9,729   | 10,271  | 10,541  | 11,066  | 11,643  | 12,709  |
| Social sciences   | 12,103  | 12,664  | 13,471  | 14,300  | 14,731  | 14,628  | 15,351  | 15,491  | 16,166  | 17,880  | 18,744  |
| Engineering   | 2,982   | 3,092   | 3,227   | 3,206   | 3,209   | 3,164   | 3,101   | 3,096   | 3,082   | 3,097   | 3,218   |
| Aerospace, aeronautical, and astronautical engineering  | 43      | 65      | 70      | 71      | 85      | 72      | 84      | 90      | 101     | 88      | 73      |
| Chemical engineering                                    | 336     | 310     | 294     | 264     | 227     | 225     | 237     | 243     | 234     | 266     | 308     |
| Civil engineering                                       | 272     | 242     | 265     | 270     | 278     | 362     | 368     | 380     | 431     | 458     | 461     |
| Electrical, electronics, and communications engineering | 897     | 944     | 1,065   | 1,015   | 998     | 942     | 867     | 866     | 775     | 722     | 704     |
| Industrial and manufacturing engineering                | 256     | 275     | 251     | 297     | 273     | 252     | 229     | 230     | 262     | 245     | 258     |
| Materials science engineering                           | 26      | 18      | 19      | 15      | 25      | 14      | 24      | 28      | 22      | 25      | 31      |
| Mechanical engineering                                  | 558     | 467     | 503     | 534     | 565     | 570     | 558     | 537     | 550     | 585     | 607     |
| Other engineering                                       | 594     | 771     | 760     | 740     | 758     | 727     | 734     | 722     | 707     | 708     | 776     |
| Non-science and engineering                             | 76,431  | 80,941  | 84,899  | 88,132  | 93,635  | 97,165  | 101,313 | 104,166 | 108,976 | 114,664 | 123,185 |
| Education   | 7,760   | 7,809   | 7,520   | 7,505   | 8,103   | 8,205   | 8,170   | 8,401   | 8,418   | 8,777   | 9,396   |
| Health  | 6,824   | 6,679   | 7,239   | 7,699   | 8,759   | 9,808   | 11,191  | 11,813  | 13,094  | 15,305  | 17,562  |
| Humanities  | 9,617   | 10,131  | 10,611  | 10,922  | 11,572  | 11,689  | 11,927  | 12,099  | 12,029  | 12,322  | 13,089  |
| Professional/other/unknown                              | 52,230  | 56,322  | 59,529  | 62,006  | 65,201  | 67,463  | 70,025  | 71,853  | 75,435  | 78,260  | 83,138  |
| HBCUs, all fields                                       | 25,122  | 26,034  | 26,434  | 26,450  | 26,620  | 26,650  | 27,143  | 27,013  | 26,897  | 27,689  | 28,956  |
| Science and engineering                                 | 8,603   | 8,715   | 8,894   | 8,765   | 8,600   | 8,566   | 8,395   | 8,375   | 8,343   | 8,846   | 8,848   |
| Science   | 7,936   | 8,065   | 8,244   | 8,056   | 7,961   | 7,918   | 7,827   | 7,737   | 7,724   | 8,232   | 8,235   |
| Agricultural sciences                                   | 229     | 218     | 189     | 183     | 218     | 185     | 211     | 192     | 221     | 201     | 226     |
| Biological sciences                                     | 1,824   | 1,741   | 1,805   | 1,749   | 1,731   | 1,871   | 1,805   | 1,859   | 1,869   | 1,931   | 1,984   |
| Computer sciences                                       | 1,269   | 1,482   | 1,563   | 1,409   | 1,182   | 969     | 723     | 719     | 716     | 711     | 694     |
| Earth, atmospheric, and ocean sciences                  | 4       | 7       | 8       | 11      | 6       | 9       | 9       | 9       | 12      | 12      | 9       |
| Mathematical sciences                                   | 339     | 302     | 289     | 277     | 278     | 281     | 244     | 248     | 271     | 278     | 284     |
| Physical sciences                                       | 427     | 374     | 378     | 360     | 367     | 390     | 371     | 440     | 398     | 370     | 436     |
| Astronomy   | 0       | 0       | 0       | 0       | 0       | 0       | 0       | 0       | 0       | 0       | 0       |
| Chemistry   | 316     | 295     | 294     | 277     | 281     | 321     | 312     | 368     | 323     | 298     | 387     |
| Physics   | 104     | 65      | 81      | 81      | 83      | 68      | 58      | 72      | 63      | 54      | 42      |

TABLE 13. Bachelor's degrees awarded to blacks or African Americans by all institutions and by historically black colleges and universities, by field: 2002–12

| Field   | 2002   | 2003   | 2004   | 2005   | 2006   | 2007   | 2008   | 2009   | 2010   | 2011   | 2012   |
|---|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| Other physical sciences                                 | 7      | 14     | 3      | 2      | 3      | 1      | 1      | 0      | 12     | 18     | 7      |
| Psychology  | 1,685  | 1,753  | 1,812  | 1,848  | 1,919  | 1,958  | 2,067  | 1,973  | 2,013  | 2,081  | 2,263  |
| Social sciences   | 2,159  | 2,188  | 2,200  | 2,219  | 2,260  | 2,255  | 2,397  | 2,297  | 2,224  | 2,648  | 2,339  |
| Engineering   | 667    | 650    | 650    | 709    | 639    | 648    | 568    | 638    | 619    | 614    | 613    |
| Aerospace, aeronautical, and astronautical engineering  | 9      | 9      | 3      | 6      | 6      | 4      | 8      | 5      | 9      | 12     | 6      |
| Chemical engineering                                    | 76     | 59     | 67     | 58     | 58     | 44     | 39     | 46     | 46     | 56     | 64     |
| Civil engineering                                       | 66     | 65     | 56     | 59     | 50     | 82     | 76     | 89     | 95     | 101    | 89     |
| Electrical, electronics, and communications engineering | 245    | 214    | 250    | 264    | 226    | 233    | 181    | 216    | 217    | 179    | 180    |
| Industrial and manufacturing engineering                | 43     | 43     | 33     | 73     | 52     | 49     | 47     | 42     | 44     | 41     | 44     |
| Materials science engineering                           | 0      | 0      | 0      | 0      | 0      | 0      | 0      | 0      | 0      | 0      | 0      |
| Mechanical engineering                                  | 123    | 111    | 111    | 127    | 128    | 119    | 98     | 117    | 103    | 112    | 113    |
| Other engineering                                       | 105    | 149    | 130    | 122    | 119    | 117    | 119    | 123    | 105    | 113    | 117    |
| Non-science and engineering                             | 16,519 | 17,319 | 17,540 | 17,685 | 18,020 | 18,084 | 18,748 | 18,638 | 18,554 | 18,843 | 20,108 |
| Education   | 2,194  | 2,154  | 1,910  | 2,021  | 2,171  | 2,077  | 2,048  | 2,066  | 2,059  | 2,132  | 2,172  |
| Health  | 1,238  | 1,128  | 1,225  | 1,238  | 1,319  | 1,438  | 1,646  | 1,685  | 1,694  | 1,837  | 2,074  |
| Humanities  | 1,945  | 2,066  | 2,035  | 2,034  | 2,122  | 2,046  | 2,054  | 2,085  | 1,981  | 2,005  | 2,134  |
| Professional/other/unknown                              | 11,142 | 11,971 | 12,370 | 12,392 | 12,408 | 12,523 | 13,000 | 12,802 | 12,820 | 12,869 | 13,728 |
| HBCUs, all fields (%)                                   | 22.6   | 22.1   | 21.4   | 20.7   | 19.9   | 19.4   | 19.0   | 18.5   | 17.6   | 17.2   | 16.8   |
| Science and engineering                                 | 24.7   | 23.6   | 23.0   | 22.0   | 21.4   | 21.2   | 20.3   | 20.0   | 19.2   | 19.1   | 17.8   |
| Science   | 24.9   | 23.8   | 23.2   | 22.0   | 21.6   | 21.3   | 20.5   | 20.0   | 19.1   | 19.0   | 17.7   |
| Agricultural sciences                                   | 50.4   | 48.2   | 42.0   | 41.2   | 44.9   | 38.5   | 37.9   | 37.6   | 37.1   | 35.0   | 32.1   |
| Biological sciences                                     | 39.4   | 35.7   | 35.8   | 34.6   | 32.3   | 31.9   | 30.1   | 29.7   | 29.0   | 28.9   | 28.1   |
| Computer sciences                                       | 25.1   | 24.4   | 25.0   | 24.2   | 22.4   | 21.1   | 18.0   | 18.6   | 17.6   | 16.1   | 14.3   |
| Earth, atmospheric, and ocean sciences                  | 6.5    | 11.7   | 12.3   | 16.2   | 10.3   | 11.4   | 10.1   | 10.2   | 12.4   | 11.4   | 7.6    |
| Mathematical sciences                                   | 40.2   | 38.2   | 36.9   | 32.4   | 32.8   | 33.8   | 30.7   | 29.5   | 32.5   | 33.9   | 29.5   |
| Physical sciences                                       | 41.9   | 40.3   | 39.5   | 37.3   | 35.3   | 37.4   | 34.2   | 38.8   | 36.6   | 32.9   | 33.4   |
| Astronomy   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| Chemistry   | 39.7   | 39.7   | 38.9   | 36.4   | 34.0   | 37.7   | 34.3   | 39.4   | 36.2   | 32.5   | 35.1   |
| Physics   | 57.1   | 44.2   | 48.8   | 48.8   | 48.5   | 41.7   | 40.3   | 48.3   | 44.1   | 36.2   | 29.6   |
| Other physical sciences                                 | 18.9   | 38.9   | 9.1    | 5.7    | 9.1    | 4.0    | 4.2    | 0.0    | 26.7   | 34.0   | 11.9   |
| Psychology  | 21.7   | 21.9   | 21.4   | 20.2   | 21.1   | 20.1   | 20.1   | 18.7   | 18.2   | 17.9   | 17.8   |
| Social sciences   | 17.8   | 17.3   | 16.3   | 15.5   | 15.3   | 15.4   | 15.6   | 14.8   | 13.8   | 14.8   | 12.5   |
| Engineering   | 22.4   | 21.0   | 20.1   | 22.1   | 19.9   | 20.5   | 18.3   | 20.6   | 20.1   | 19.8   | 19.0   |
| Aerospace, aeronautical, and astronautical engineering  | 20.9   | 13.8   | 4.3    | 8.5    | 7.1    | 5.6    | 9.5    | 5.6    | 8.9    | 13.6   | 8.2    |
| Chemical engineering                                    | 22.6   | 19.0   | 22.8   | 22.0   | 25.6   | 19.6   | 16.5   | 18.9   | 19.7   | 21.1   | 20.8   |
| Civil engineering                                       | 24.3   | 26.9   | 21.1   | 21.9   | 18.0   | 22.7   | 20.7   | 23.4   | 22.0   | 22.1   | 19.3   |
| Electrical, electronics, and communications engineering | 27.3   | 22.7   | 23.5   | 26.0   | 22.6   | 24.7   | 20.9   | 24.9   | 28.0   | 24.8   | 25.6   |
| Industrial and manufacturing engineering                | 16.8   | 15.6   | 13.1   | 24.6   | 19.0   | 19.4   | 20.5   | 18.3   | 16.8   | 16.7   | 17.1   |
| Materials science engineering                           | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| Mechanical engineering                                  | 22.0   | 23.8   | 22.1   | 23.8   | 22.7   | 20.9   | 17.6   | 21.8   | 18.7   | 19.1   | 18.6   |
| Other engineering                                       | 17.7   | 19.3   | 17.1   | 16.5   | 15.7   | 16.1   | 16.2   | 17.0   | 14.9   | 16.0   | 15.1   |

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| Field                       | 2002 | 2003 | 2004 | 2005 | 2006 | 2007 | 2008 | 2009 | 2010 | 2011 | 2012 |
|-----------------------------|------|------|------|------|------|------|------|------|------|------|------|
| Non-science and engineering | 21.6 | 21.4 | 20.7 | 20.1 | 19.2 | 18.6 | 18.5 | 17.9 | 17.0 | 16.4 | 16.3 |
| Education                   | 28.3 | 27.6 | 25.4 | 26.9 | 26.8 | 25.3 | 25.1 | 24.6 | 24.5 | 24.3 | 23.1 |
| Health                      | 18.1 | 16.9 | 16.9 | 16.1 | 15.1 | 14.7 | 14.7 | 14.3 | 12.9 | 12.0 | 11.8 |
| Humanities                  | 20.2 | 20.4 | 19.2 | 18.6 | 18.3 | 17.5 | 17.2 | 17.2 | 16.5 | 16.3 | 16.3 |
| Professional/other/unknown  | 21.3 | 21.3 | 20.8 | 20.0 | 19.0 | 18.6 | 18.6 | 17.8 | 17.0 | 16.4 | 16.5 |

HBCU = historically black college or university.

NOTES: Race or ethnicity categories are as designated on the survey form. These categories include U.S. citizens and foreign citizens on permanent visas (i.e., resident aliens who have been admitted for permanent residency). See appendix B for specific fields included in each category.

SOURCE: Tabulated by National Science Foundation, National Center for Science and Engineering Statistics; data from Department of Education, National Center for Education Statistics: Integrated Postsecondary Education Data System Completions Survey.