# 2019-2020 Faculty Salaries Report 

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This salary report is one part of the Annual Survey of the Mathematical and Statistical Sciences, a nation-wide survey administered by the AMS on behalf of the American Statistical Association (ASA), the Institute for Mathematical Statistics (IMS), the Mathematical Association of America (MAA), the Society for Industrial and Applied Mathematics (SIAM), the Association for Women in Mathematics (AWM), the Caucus for Women in Statistics (CWS), and the National Association of Mathematics (NAM). It provides a look at the salaries of faculty in the Mathematical Sciences in the US by rank in several different department groupings based on discipline, highest degree offered, and graduate counts. The graphs here are identified by those group names, and the group definitions are given at the end of the report.

Departments were asked to report for each rank the number of tenured and tenure-track, non-tenure-track, and part-time faculty whose 2019-20 academic-year salaries fell within given salary intervals. Reporting salary data in this fashion ensures confidentiality of individual responses, though it does mean that the quartiles reported in the tables are approximations. The quartiles reported have been
estimated to the nearest $\$ 100$ assuming that the density over each interval is uniform.

Note: In the graph for all faculty salaries on this page, the percentage scale ranges from 0 to 50 , while the scale for all other graphs is 0 to 100. The non-tenure-track faculty are reported in this report alongside the other full-time faculty; and part-time faculty and pay by the course are summarized in the last two tables in this report.

Faculty Salary Reports from prior years are at https:// www.ams.org/annual-survey/salaries. Interpretation of historical trends should be made with care. For instance, one factor influencing year to year changes in the mean reported salaries may be differences in the sets of responding departments within the groups. Response rates are noted on the tables.

Figure 1 provides a comparative view of faculty salaries among four broad groups: departments whose highest degree is a (1) PhD in mathematics (including applied mathematics departments), (2) PhD in statistics or biostatistics, (3) masters degree in mathematics, and (4) bachelors degree in mathematics. In the remainder of this report, salary distributions are broken down within finer departmental categories and by faculty rank.

Figure 1. Full-time Faculty Salaries by Department Grouping, Fall 2019 (Tenured,Tenure-track, and Non-tenured)


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| Math Public Large Group Faculty Salaries <br> 15 responses out of 26 departments (58\%) |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Rank | 2019-20 |  |  |  |  |  | 2018-19 |
|  | Gender | No. Reported | Q1 | Median | Q3 | Mean | Mean |
| New Asst Professor | AII | 24 | 93,100 | 101,400 | 106,800 | 99,753 | 95,340 |
|  | Men | 19 | 93,600 | 101,100 | 103,900 | 101,214 | 95,720 |
|  | Women | 5 | - | - | - | 94,203 | 94,560 |
| Assistant Professor ${ }^{1}$ | AII | 108 | 92,800 | 97,800 | 104,600 | 97,884 | 94,470 |
|  | Men | 85 | 93,200 | 98,300 | 104,800 | 98,120 | 94,960 |
|  | Women | 23 | 91,700 | 95,800 | 104,000 | 97,009 | 92,960 |
| Associate Professor | AII | 117 | 97,700 | 108,700 | 118,500 | 108,074 | 102,910 |
|  | Men | 86 | 96,200 | 106,600 | 116,700 | 106,067 | 102,540 |
|  | Women | 31 | 103,300 | 116,700 | 123,000 | 113,643 | 104,030 |
| Full Professor | AII | 485 | 127,100 | 146,800 | 172,500 | 152,930 | 149,280 |
|  | Men | 428 | 127,700 | 146,600 | 172,200 | 153,353 | 150,130 |
|  | Women | 57 | 123,500 | 148,300 | 174,200 | 149,752 | 142,620 |
| Non-tenure-track faculty | AII | 426 | 56,000 | 62,100 | 70,100 | 66,173 | 61,160 |
|  | Men | 277 | 56,000 | 61,400 | 70,400 | 66,776 | 61,260 |
|  | Women | 149 | 56,000 | 63,300 | 69,700 | 65,051 | 60,930 |

${ }^{1}$ Includes newly hired assistant professors.

Figure 2. Math Public Large Group-Percentage of Faculty Salaries within each Salary Range by Category


[^1]| Math Public Medium Group Faculty Salaries <br> 32 responses out of 40 departments ( $80 \%$ ) |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Rank | 2019-20 |  |  |  |  |  | 2018-19 |
|  | Gender | No. Reported | 01 | Median | Q3 | Mean | Mean |
| New Asst Professor | All | 38 | 81,600 | 84,500 | 90,800 | 90,418 | 82,780 |
|  | Men | 21 | 80,400 | 84,300 | 88,900 | 92,376 | 83,250 |
|  | Women | 17 | 82,200 | 84,500 | 95,600 | 88,000 | 81,280 |
| Assistant Professor ${ }^{1}$ | All | 204 | 80,800 | 85,600 | 90,600 | 86,445 | 82,540 |
|  | Men | 140 | 80,700 | 85,500 | 89,700 | 86,601 | 83,500 |
|  | Women | 64 | 81,000 | 86,000 | 92,500 | 86,104 | 79,900 |
| Associate Professor | All | 285 | 86,000 | 93,700 | 103,300 | 94,512 | 92,380 |
|  | Men | 223 | 86,900 | 93,500 | 103,000 | 94,280 | 92,100 |
|  | Women | 62 | 87,200 | 94,400 | 104,100 | 95,348 | 93,450 |
| Full Professor | All | 523 | 106,600 | 123,100 | 146,400 | 130,080 | 126,450 |
|  | Men | 465 | 107,000 | 124,000 | 146,900 | 130,558 | 126,860 |
|  | Women | 58 | 103,800 | 116,200 | 137,500 | 126,309 | 123,070 |
| Non-tenure-track faculty | All | 616 | 46,500 | 54,200 | 61,900 | 53,812 | 54,940 |
|  | Men | 356 | 46,600 | 53,700 | 61,500 | 53,769 | 54,850 |
|  | Women | 260 | 46,500 | 55,000 | 62,400 | 53,871 | 55,060 |

${ }^{1}$ Includes newly hired assistant professors.

Figure 3. Math Public Medium Group-Percentage of Faculty Salaries within each Salary Range by Category


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| Math Public Small Group Faculty Salaries <br> 40 responses out of 73 departments (55\%) |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Rank | 2019-20 |  |  |  |  |  | 2018-19 |
|  | Gender | No. Reported | Q1 | Median | 03 | Mean | Mean |
| New Asst Professor | All | 40 | 71,800 | 75,700 | 83,700 | 74,771 | 74,330 |
|  | Men | 32 | 71,900 | 75,800 | 80,900 | 74,511 | 76,490 |
|  | Women | 8 | 71,900 | 75,800 | 81,200 | 75,813 | 69,510 |
| Assistant Professor ${ }^{1}$ | All | 197 | 72,100 | 76,200 | 81,800 | 76,283 | 74,170 |
|  | Men | 139 | 71,400 | 76,700 | 81,900 | 76,365 | 74,720 |
|  | Women | 58 | 70,800 | 74,600 | 81,200 | 76,088 | 72,870 |
| Associate Professor | All | 298 | 74,800 | 81,300 | 88,900 | 82,785 | 82,590 |
|  | Men | 217 | 74,200 | 81,200 | 89,400 | 82,894 | 82,950 |
|  | Women | 81 | 76,200 | 81,700 | 88,000 | 82,492 | 81,650 |
| Full Professor | All | 454 | 91,600 | 102,700 | 119,700 | 108,584 | 109,570 |
|  | Men | 382 | 91,700 | 103,300 | 121,300 | 109,366 | 111,040 |
|  | Women | 72 | 90,900 | 100,300 | 114,100 | 104,439 | 102,760 |
| Non-tenure-track faculty | All | 501 | 44,600 | 52,100 | 58,600 | 52,746 | 52,640 |
|  | Men | 248 | 45,700 | 52,200 | 63,300 | 52,941 | 52,240 |
|  | Women | 253 | 43,800 | 51,900 | 58,700 | 52,555 | 53,030 |

${ }^{1}$ Includes newly hired assistant professors.

Figure 4. Math Public Small Group-Percentage of Faculty Salaries within each Salary Range by Category


| Math Private Large Group Faculty Salaries <br> 15 responses out of 24 departments (63\%) |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Rank | 2019-20 |  |  |  |  |  | 2018-19 |
|  | Gender | No. Reported | Q1 | Median | Q3 | Mean | Mean |
| New Asst Professor | All | 15 | 81,700 | 92,500 | 105,000 | 93,792 | 93,390 |
|  | Men | 12 | 82,500 | 95,600 | 111,200 | 95,586 | 90,620 |
|  | Women ${ }^{2}$ | 3 | - | - | - | 86,614 | 98,940 |
| Assistant Professor ${ }^{1}$ | All | 76 | 84,600 | 100,200 | 110,700 | 100,817 | 93,770 |
|  | Men | 60 | 84,300 | 100,300 | 111,000 | 100,452 | 92,000 |
|  | Women | 16 | 96,200 | 101,000 | 111,700 | 102,183 | 99,460 |
| Associate Professor | All | 53 | 112,600 | 122,200 | 136,800 | 126,095 | 118,400 |
|  | Men | 46 | 112,100 | 121,700 | 135,000 | 123,078 | 115,640 |
|  | Women ${ }^{2}$ | 7 | - | - | - | 145,918 | 131,380 |
| Full Professor | All | 226 | 150,400 | 177,900 | 218,000 | 186,756 | 182,160 |
|  | Men | 201 | 151,100 | 178,100 | 220,500 | 187,281 | 182,160 |
|  | Women | 25 | 141,700 | 175,000 | 212,500 | 182,531 | 182,170 |
| Non-tenure-track faculty | All | 161 | 63,600 | 72,800 | 83,200 | 75,770 | 71,400 |
|  | Men | 125 | 64,500 | 73,700 | 83,400 | 77,083 | 71,480 |
|  | Women | 36 | 62,100 | 67,100 | 82,500 | 71,212 | 71,090 |

${ }^{1}$ Includes newly hired assistant professors.
${ }^{2}$ Too few to report.

Figure 5. Math Private Large Group - Percentage of Faculty Salaries within each Salary Range by Category


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| Math Private Small Group Faculty Salaries ${ }^{1}$ 13 responses out of 28 departments ( $46 \%$ ) |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Rank | 2019-20 |  |  |  |  |  | 2018-19 |
|  | Gender | No. Reported | Q1 | Median | Q3 | Mean | Mean |
| New Asst Professor | All ${ }^{2}$ | 3 | - | - | - | 91,833 | 86,420 |
|  | $M_{\text {en }}{ }^{2}$ | 3 | - | - | - | 91,833 | 85,060 |
|  | Women ${ }^{2}$ | 0 | - | - | - | - | 89,500 |
| Assistant Professor ${ }^{1}$ | All | 38 | 83,200 | 89,100 | 95,800 | 89,924 | 89,250 |
|  | Men | 27 | 83,700 | 90,700 | 96,700 | 90,444 | 89,850 |
|  | Women | 11 | 81,200 | 86,700 | 93,300 | 88,647 | 87,730 |
| Associate Professor | All | 86 | 88,500 | 94,400 | 103,100 | 94,886 | 97,690 |
|  | Men | 70 | 88,600 | 95,200 | 103,800 | 95,202 | 97,530 |
|  | Women | 16 | 88,100 | 92,900 | 101,200 | 93,506 | 98,440 |
| Full Professor | All | 114 | 117,100 | 133,700 | 163,300 | 140,929 | 141,240 |
|  | Men | 102 | 117,100 | 133,900 | 163,000 | 141,508 | 141,800 |
|  | Women | 12 | 121,200 | 132,500 | 165,000 | 136,002 | 135,540 |
| Non-tenure-track faculty | All | 95 | 53,300 | 60,800 | 68,700 | 61,731 | 63,860 |
|  | Men | 64 | 53,700 | 60,900 | 68,500 | 61,092 | 64,950 |
|  | Women | 31 | 52,700 | 60,800 | 69,000 | 63,049 | 62,190 |

${ }^{1}$ Includes newly hired assistant professors.
${ }^{2}$ Too few to report.

Figure 6. Math Private Small Group-Percentage of Faculty Salaries within each Salary Range by Category


| Applied Math Group Faculty Salaries <br> 11 responses out of 23 departments (48\%) |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Rank | 2019-20 |  |  |  |  |  | 2018-19 |
|  | Gender | No. Reported | Q1 | Median | Q3 | Mean | Mean |
| New Asst Professor | $\mathrm{AlI}^{2}$ | 3 | - | - | - | 93,167 | 111,000 |
|  | Men ${ }^{2}$ | 2 | - | - | - | 100,500 | 118,000 |
|  | Women ${ }^{2}$ | 1 | - | - | - | 78,500 | 104,000 |
| Assistant Professor ${ }^{1}$ | All | 26 | 76,700 | 101,400 | 107,300 | 94,417 | 98,580 |
|  | Men | 21 | 72,500 | 98,700 | 106,100 | 92,128 | 97,710 |
|  | Women ${ }^{2}$ | 5 |  |  |  | 104,032 | 100,980 |
| Associate Professor | All | 59 | 78,500 | 105,000 | 122,500 | 103,555 | 153,080 |
|  | Men | 41 | 78,700 | 107,000 | 126,200 | 106,291 | 99,670 |
|  | Women | 18 | 78,000 | 101,000 | 123,300 | 97,325 | 102,490 |
| Full Professor | All | 102 | 115,000 | 136,900 | 185,000 | 154,741 | 153,080 |
|  | Men | 84 | 121,900 | 140,800 | 192,500 | 159,737 | 154,030 |
|  | Women | 18 | 96,700 | 111,200 | 136,700 | 131,422 | 145,450 |
| Non-tenure-track faculty | All | 86 | 48,500 | 58,200 | 73,800 | 64,493 | 66,720 |
|  | Men | 51 | 48,000 | 56,700 | 74,000 | 66,110 | 70,310 |
|  | Women | 35 | 50,800 | 61,700 | 73,900 | 62,137 | 61,150 |

${ }^{1}$ Includes newly hired assistant professors
${ }^{2}$ Too few to report.

Figure 7. Applied Math Group - Percentage of Faculty Salaries within each Salary Range by Category


| Statistics Group Faculty Salaries <br> 24 responses out of 59 departments (41\%) |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Rank | 2019-20 |  |  |  |  |  | 2018-19 |
|  | Gender | No. Reported | 01 | Median | Q3 | Mean | Mean |
| New Asst Professor | All | 37 | 87,500 | 98,600 | 107,100 | 99,620 | 98,500 |
|  | Men | 25 | 90,800 | 98,600 | 105,500 | 97,640 | 98,330 |
|  | Women | 12 | 85,800 | 101,700 | 128,300 | 103,740 | 98,750 |
| Assistant Professor ${ }^{1}$ | All | 148 | 93,300 | 100,400 | 109,600 | 102,340 | 97,310 |
|  | Men | 110 | 94,600 | 101,400 | 109,700 | 102,860 | 97,620 |
|  | Women | 38 | 89,300 | 97,800 | 108,700 | 100,850 | 96,570 |
| Associate Professor | All | 110 | 101,000 | 111,000 | 127,000 | 115,704 | 105,860 |
|  | Men | 66 | 101,900 | 112,600 | 132,000 | 117,437 | 107,820 |
|  | Women | 44 | 100,400 | 108,200 | 124,200 | 113,106 | 102,210 |
| Full Professor | All | 229 | 134,700 | 163,700 | 196,800 | 167,705 | 164,340 |
|  | Men | 185 | 136,100 | 164,500 | 195,900 | 167,644 | 164,130 |
|  | Women | 44 | 132,300 | 155,000 | 201,200 | 167,957 | 165,150 |
| Non-tenure-track faculty | All | 211 | 62,400 | 71,200 | 88,200 | 78,296 | 77,820 |
|  | Men | 119 | 65,400 | 73,600 | 88,500 | 79,569 | 79,170 |
|  | Women | 92 | 58,100 | 68,400 | 87,500 | 76,649 | 76,280 |

${ }^{1}$ Includes newly hired assistant professors.

Figure 8. Statistics Group - Percentage of Faculty Salaries within each Salary Range by Category


| Biostatistics Group Faculty Salaries <br> 14 responses out of 49 departments (29\%) |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Rank | 2019-20 |  |  |  |  |  | 2018-19 |
|  | Gender | No. Reported | Q1 | Median | Q3 | Mean | Mean |
| New Asst Professor | All | 17 | 90,400 | 93,600 | 106,200 | 98,050 | 90,060 |
|  | Men | 13 | 87,500 | 92,500 | 102,500 | 96,360 | 91,688 |
|  | Women ${ }^{2}$ | 4 | - | - | - | 103,570 | 86,800 |
| Assistant Professor ${ }^{1}$ | All | 84 | 89,200 | 94,200 | 103,700 | 97,260 | 92,060 |
|  | Men | 56 | 87,900 | 92,300 | 98,400 | 95,770 | 90,480 |
|  | Women | 28 | 93,100 | 100,500 | 106,800 | 100,240 | 95,120 |
| Associate Professor | All | 87 | 110,400 | 118,200 | 127,800 | 119,850 | 118,540 |
|  | Men | 59 | 111,000 | 118,500 | 127,600 | 120,290 | 118,330 |
|  | Women | 28 | 107,000 | 117,200 | 127,900 | 118,920 | 119,130 |
| Full Professor | All | 150 | 148,700 | 167,600 | 204,300 | 180,310 | 179,920 |
|  | Men | 104 | 146,500 | 167,800 | 203,000 | 180,120 | 180,400 |
|  | Women | 46 | 153,300 | 166,900 | 206,700 | 180,740 | 178,150 |
| Non-tenure-track faculty | All | 110 | 89,500 | 102,700 | 122,000 | 109,430 | 141,040 |
|  | Men | 52 | 92,900 | 103,700 | 132,500 | 114,310 | 180,650 |
|  | Women | 58 | 86,000 | 101,200 | 126,200 | 105,060 | 115,920 |

${ }^{1}$ Includes newly hired assistant professors.
${ }^{2}$ Too few to report.

Figure 9. Biostatistics Group-Percentage of Faculty Salaries within each Salary Range by Category


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| Masters Group Faculty Salaries <br> 90 responses out of 163 departments (55\%) |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Rank | 2019-20 |  |  |  |  |  | 2018-19 |
|  | Gender | No. Reported | Q1 | Median | Q3 | Mean | Mean |
| New Asst Professor | ALL | 57 | 61,600 | 69,000 | 80,600 | 71,419 | 68,990 |
|  | Men | 33 | 60,400 | 67,500 | 77,500 | 68,267 | 69,450 |
|  | Women | 24 | 63,500 | 75,600 | 88,500 | 75,754 | 67,990 |
| Assistant Professor ${ }^{1}$ | ALL | 322 | 60,200 | 68,200 | 79,700 | 69,602 | 67,640 |
|  | Men | 200 | 59,800 | 68,100 | 78,600 | 69,105 | 67,570 |
|  | Women | 122 | 60,700 | 68,400 | 82,300 | 70,417 | 67,780 |
| Associate Professor | ALL | 426 | 64,300 | 75,700 | 84,900 | 76,037 | 75,850 |
|  | Men | 276 | 63,600 | 74,300 | 84,500 | 75,405 | 76,210 |
|  | Women | 150 | 66,600 | 77,300 | 86,200 | 77,200 | 75,130 |
| Full Professor | ALL | 544 | 83,900 | 97,400 | 110,300 | 99,807 | 95,410 |
|  | Men | 412 | 84,200 | 97,600 | 111,300 | 100,357 | 150,130 |
|  | Women | 132 | 83,000 | 96,700 | 108,600 | 98,090 | 92,930 |
| Non-tenure-track faculty | ALL | 579 | 43,400 | 48,400 | 56,900 | 51,097 | 47,380 |
|  | Men | 294 | 43,400 | 49,000 | 58,800 | 51,813 | 47,790 |
|  | Women | 285 | 43,400 | 47,900 | 54,800 | 50,357 | 47,000 |

${ }^{1}$ Includes newly hired assistant professors.

Figure 10. Masters Group-Percentage of Faculty Salaries within each Salary Range by Category


* Includes newly hired assistant professors.

| Bachelors Group Faculty Salaries <br> 227 responses out of 1018 departments (22\%) |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Rank | 2019-20 |  |  |  |  |  | 2018-19 |
|  | Gender | No. Reported | Q1 | Median | Q3 | Mean | Mean |
| New Asst Professor | ALL | 90 | 54,100 | 61,700 | 73,100 | 64,592 | 63,330 |
|  | Men | 57 | 53,300 | 60,800 | 75,400 | 64,079 | 62,110 |
|  | Women | 33 | 56,200 | 63,100 | 71,900 | 65,478 | 66,040 |
| Assistant Professor ${ }^{1}$ | ALL | 420 | 56,000 | 63,200 | 73,900 | 65,642 | 65,170 |
|  | Men | 260 | 54,800 | 62,200 | 73,100 | 64,460 | 64,540 |
|  | Women | 160 | 57,700 | 65,700 | 74,600 | 67,561 | 66,270 |
| Associate Professor | ALL | 556 | 65,200 | 72,400 | 83,500 | 75,324 | 76,850 |
|  | Men | 381 | 65,500 | 72,400 | 83,000 | 75,292 | 77,110 |
|  | Women | 175 | 64,000 | 72,200 | 85,500 | 75,395 | 76,380 |
| Full Professor | ALL | 693 | 76,000 | 89,300 | 111,600 | 96,874 | 96,080 |
|  | Men | 508 | 76,600 | 91,000 | 112,000 | 97,743 | 96,420 |
|  | Women | 185 | 74,400 | 86,000 | 110,500 | 94,488 | 95,080 |
| Non-tenure-track faculty | ALL | 522 | 45,200 | 51,600 | 60,400 | 53,869 | 56,580 |
|  | Men | 265 | 44,900 | 53,900 | 63,700 | 55,636 | 61,410 |
|  | Women | 257 | 45,300 | 50,400 | 57,100 | 52,047 | 51,250 |

${ }^{1}$ Includes newly hired assistant professors.

Figure 11. Bachelors Group-Percentage of Faculty Salaries within each Salary Range by Category $\longrightarrow$ New Asst $\longrightarrow$ Assistant* $\quad$ Associate $\longrightarrow$ Full $\longrightarrow$ Non-tenure-track $\longrightarrow$ Part-time


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Distribution of Part-time Faculty Salaries for Academic Year 2019-2020

| Department Grouping | Gender | No. Reported | Q1 | Median | Q3 | Mean |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Math Public Large 15 Responses out of 26 (58\%) | All | 83 | 10,700 | 14,600 | 21,700 | 22,655 |
|  | Men | 51 | 11,100 | 16,000 | 27,500 | 25,991 |
|  | Women | 32 | 10,500 | 13,400 | 18,700 | 17,338 |
| Math Public Medium <br> 32 Responses out of 40 (80\%) | All | 172 | 16,600 | 18,700 | 40,700 | 29,797 |
|  | Men | 100 | 16,900 | 19,400 | 41,200 | 30,697 |
|  | Women | 72 | 19,100 | 25,500 | 39,100 | 28,547 |
| Math Public Small 40 responses out of 73 (55\%) | All | 73 | 13,100 | 23,300 | 38,200 | 29,158 |
|  | Men | 46 | 12,500 | 24,200 | 38,300 | 30,596 |
|  | Women | 27 | 13,600 | 22,100 | 38,000 | 26,709 |
| Math Private Large 15 Responses out of 24 (63\%) | $\mathrm{AlI}^{1}$ | 5 | - | - | - | 72,756 |
|  | Men ${ }^{1}$ | 4 | - | - |  | 80,388 |
|  | Women ${ }^{1}$ | 1 | - | - |  | 42,226 |
| Math Private Small <br> 13 Responses out of 28 (46\%) | AII | 26 | 66,700 | 91,200 | 125,000 | 100,275 |
|  | Men | 24 | 65,800 | 91,200 | 122,500 | 98,068 |
|  | Women | 2 | - | - |  | 126,762 |
| Applied Math <br> 11 Responses out of 23 (48\%) | $\mathrm{AlI}^{1}$ | 2 | - | - | - | 16,298 |
|  | Men ${ }^{1}$ | 2 | - | - |  | 16,298 |
|  | Women ${ }^{1}$ | 0 | - | - |  | - |
| Statistics <br> 24 Responses out of 59 (41\%) | All | 49 | 15,600 | 31,700 | 76,500 | 46,292 |
|  | Men | 33 | 13,600 | 31,200 | 75,800 | 47,350 |
|  | Women | 16 | 20,600 | 32,500 | 77,500 | 44,110 |
| Biostatistics <br> 14 Responses out of 49 (29\%) | AII | 5 | 26,200 | 72,500 | 132,500 | 82,880 |
|  | Men | 5 | 26,200 | 72,500 | 132,500 | 82,880 |
|  | Women ${ }^{1}$ | 0 | - | - |  | - |
| Masters <br> 90 Responses out of 163 (55\%) | All | 259 | 12,300 | 42,100 | 53,700 | 36,882 |
|  | Men | 145 | 11,000 | 28,600 | 52,400 | 32,520 |
|  | Women | 114 | 16,200 | 48,200 | 54,600 | 42,431 |
| Bachelors <br> 227 Responses out of 1,492 (15\%) | AII | 171 | 7,200 | 17,100 | 35,600 | 21,319 |
|  | Men | 103 | 6,500 | 14,600 | 32,000 | 19,964 |
|  | Women | 68 | 8,300 | 22,500 | 38,200 | 23,372 |

[^2]Distribution of Instructional Staff Pay per Course for Academic Year 2019-2020

| Department Grouping | Gender | No. Courses Taught | Q1 | Median | O3 | Mean |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Math Public Large <br> 15 Responses out of 26 (58\%) | All | 121 | 5,100 | 8,100* | 8,600* | 8,062 |
|  | Men | 87 | 5,200 | 8,200* | 8,600* | 8,396 |
|  | Women | 34 | 5,100 | 7,500 | 8,400* | 7,209 |
| Math Public Medium <br> 32 Responses out of 40 (80\%) | All | 624 | 4,800 | 6,100 | 8,200* | 7,096 |
|  | Men | 398 | 4,800 | 6,100 | 8,200* | 7,057 |
|  | Women | 226 | 5,000 | 6,000 | 8,100* | 7,164 |
| Math Public Small <br> 40 responses out of 73 (55\%) | All | 474 | 2,800 | 4,500 | 5,700 | 5,930 |
|  | Men | 290 | 2,800 | 4,500 | 5,800 | 5,021 |
|  | Women | 184 | 2,700 | 4,400 | 5,600 | 7,362 |
| Math Private Large 15 Responses out of 24 (63\%) | AII | 24 | 8,100* | 8,400* | 8,700* | 9,253 |
|  | Men | 17 | 8100* | 8,400* | 8,700* | 8,768 |
|  | Women | 7 | 7,500 | 8,300* | 8,700* | 10,431 |
| Math Private Small <br> 13 Responses out of 28 (46\%) | All | 80 | 3,500 | 4,100 | 4,900 | 4,064 |
|  | Men | 47 | 3,400 | 4,100 | 4,900 | 4,068 |
|  | Women | 33 | 3,500 | 4,200 | 4,900 | 4,058 |
| Applied Math <br> 11 Responses out of 23 (48\%) | All | 55 | 6,700 | 7,500 | 8,200* | 7,120 |
|  | Men | 43 | 4,900 | 7,500 | 8,300* | 7,037 |
|  | Women | 12 | 7,300 | 7,500 | 7,800 | 7,417 |
| Statistics <br> 24 Responses out of 59 (41\%) | AII | 39 | 5,600 | 8,200* | 8,700* | 11,496 |
|  | Men | 29 | 5,800 | 8,200* | 8,800* | 12,576 |
|  | Women | 10 | 4,700 | 7,500 | 8,300* | 8,365 |
| Biostatistics <br> 14 Responses out of 49 (29\%) | AII | 22 | 5,300 | 5,700 | 6,500 | 7,021 |
|  | Men | 13 | 5,400 | 5,900 | 8,600* | 8,192 |
|  | Women | 9 | 5,200 | 5,400 | 5,700 | 5,329 |
| Masters <br> 90 Responses out of 163 (55\%) | All | 1,395 | 3,200 | 4,200 | 5,500 | 4,356 |
|  | Men | 832 | 3,100 | 4,200 | 5,500 | 4,355 |
|  | Women | 563 | 3,300 | 4,300 | 5,500 | 4,357 |
| Bachelors <br> 227 Responses out of 1,492 (15\%) | All | 1,361 | 2,100 | 2,900 | 4,300 | 3,395 |
|  | Men | 710 | 2,200 | 3,000 | 4,500 | 3,659 |
|  | Women | 651 | 2,000 | 2,700 | 3,900 | 3,108 |

[^3]
## Departmental Groupings

In this report, Mathematical and Statistical Sciences departments are those in four-year institutions in the US that refer to themselves with a name that incorporates (with a few exceptions) "Mathematics" or "Statistics" in some form. For instance, the term includes, but is not limited to, departments of "Mathematics," "Mathematical Sciences," "Mathematics and Statistics," "Mathematics and Computer Science," "Applied Mathematics," "Statistics," and "Biostatistics." Also, Mathematics (Math) refers to departments that (with exceptions) have "mathematics" in the name; Stat/ Biostat (Stats) refers to departments that incorporate (again, with exceptions) "statistics" or "biostatistics" in the name but do not use "mathematics."

Listings of the actual departments that comprise these groups are available on the AMS website at https://www .ams.org/annual-survey/groupings.

| A department is in <br> Group... | ..when its subject area, <br> PhD production rate* $p$ |
| :--- | :--- |
| Math Public Large | Math $\mathrm{PhD}, 7.0 \leq p$ |
| Math Public Medium | Math $\mathrm{PhD}, 3.9 \leq p<7.0$ |
| Math Public Small | Math PhD, $p<3.9$ |
| Math Private Large | Math PhD, 3.9 $\leq p$ |
| Math Private Small | Math PhD, $p<3.9$ |
| Applied Math | Applied mathematics, PhD |
| Statistics | Statistics, PhD |
| Biostatistics | Biostatistics, PhD |
| Masters | Math, master's |
| Bachelors | Math, bachelor's |
| Doctoral Math | Math Public, Math Private, \& Applied Math |
| Stat/Biostat or Stats | Statistics \& Biostatistics |
| Math | All groups except Statistics \& Biostatistics |

*The doctorate-granting departments of mathematics PhD production rates are based on the size of the PhD program as reflected in the number of PhDs awarded (as reported by departments to the Annual Survey) during the ten years from July 1, 2000, through June 30, 2010. Since there are some departments that did not report their PhDs for every Annual Survey during this time, the average of their reported annual number of PhDs awarded was used to compare the departments.

## Obtain a Special Faculty Salaries Analysis

Each year the AMS provides a limited number of special faculty salary analyses to departments requesting them. These reports are based on data gathered through the Survey and provide more nuanced comparisons with similar institutions than is possible with the Faculty Salaries Report. In order to receive a special analysis, your department must have responded to the most recent Faculty Survey.

Send a list of your peer institutions (a minimum of 12 institutions is required) to ams-survey@ams.org along with the date by which the analysis is needed. (If not enough of your peer group have responded to the salary survey, you will be asked to provide additional institutions.) A minimum of two weeks is needed to complete a special analysis.

The analysis produced includes a listing of your peer group institutions along with their salary survey response status; a summary table including the rank (assistant, associate, and full professor); the number reported in each rank; the 1st quartile, median, 3rd quartile, and mean salaries for each along with bar graphs.

## Acknowledgments

The Annual Survey attempts to provide an accurate appraisal and analysis of various aspects of the academic mathematical sciences scene for the use and benefit of the community and for filling the information needs of the professional organizations. Every year, college and university departments in the United States are invited to respond. The Annual Survey relies heavily on the conscientious efforts of the dedicated staff members of these departments for the quality of its information. On behalf of the Joint Data Committee and the Annual Survey Staff, we thank the many secretarial and administrative staff members in the mathematical sciences departments for their cooperation and assistance in responding to the survey questionnaires.


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[^1]:    * Includes newly hired assistant professors.

[^2]:    ${ }^{1}$ Too few to report.

[^3]:    *These are part of the largest bin " $\$ 8,000$ and above". The given values were extrapolated from a bin width of $\$ 8,000$

