

Report on the 2015-2016 New Doctoral Recipients

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This report presents a statistical profile of recipients of doctoral degrees awarded by departments in the mathematical sciences at universities in the United States during the period July 1, 2015 through June 30, 2016. Information in this report was provided by 298 of the 322 doctoral-granting departments surveyed, with additional information provided by the individual new doctoral recipients. Readers should keep in mind that the drops seen in the Statistics and Biostatistics groups are likely the result of nonresponse; 23 (10 Statistics & 13 Biostatistics) of 105 departments did not respond in time for the publication of this report.

The 2015-2016 Report on Employment Experiences of New Doctoral Recipients immediately following this report provides an analysis of the fall 2016 employment plans, of the 730 PhD recipients who responded to this survey, and a demographic profile summarizing characteristics of their citizenship status, gender, and racial/ethnic group.

Detailed information, including tables not appearing in this report, is available on the AMS website at www.ams.org/annual-survey.

Doctoral Degrees Awarded

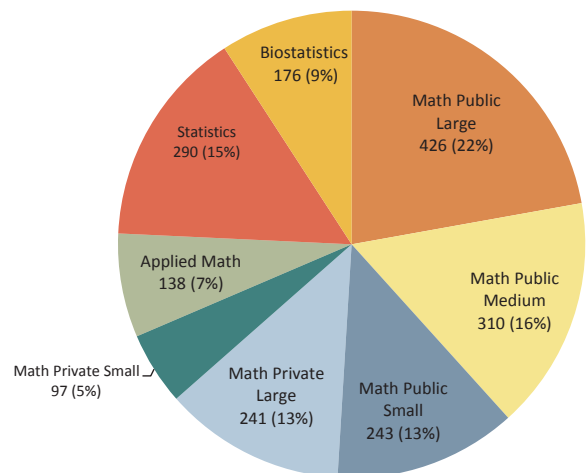
In mathematical sciences 1,921 PhDs were awarded by 279 doctoral-granting departments; 19 of these departments awarded no doctoral degrees.

The highest percentage, 30% (575) of the new PhDs had a dissertation in statistics/biostatistics, followed by algebra/number theory with 15% (279) and applied mathematics with 13% (248).

Comparing PhDs awarded in 2015-16 to 2014-15 the number of PhDs awarded:

- Increased about 1% from 1,901 to 1,921. Of the 272 departments that responded both this year and last year the number of PhDs awarded decreased to 1,871 from 1,901
- Increased in all groups except Applied Math, Statistics, and Biostatistics
- Increased 22% in Math Public Small, 28% in Math Private Small, 10% in Math Private large, and less than 3% in both Math Public Large and Medium
- Decreased 7% in Applied Math, 16% in Statistics, and 9% in Biostatistics

Figure A.1: Number and Percentage of Degrees Awarded by Department Grouping*



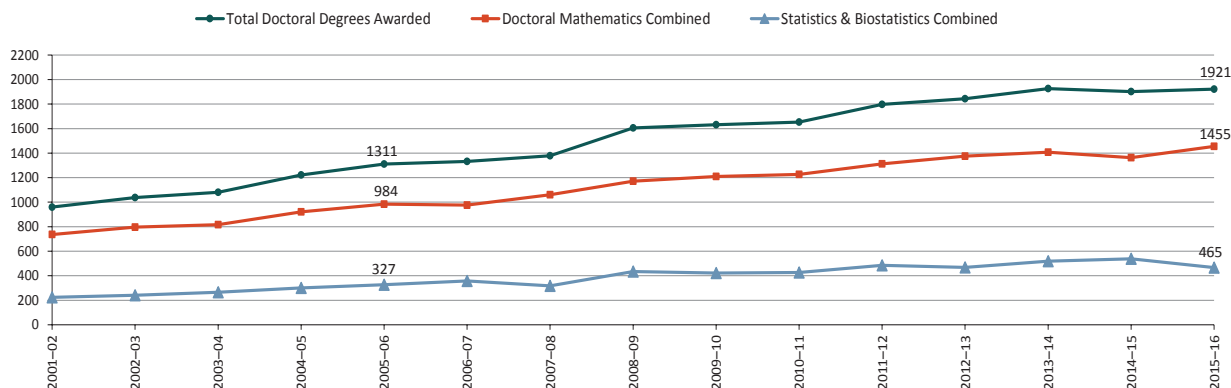
Total Degrees Awarded: 1,921

*See page 781 for a description of the department groupings.

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ANNUAL SURVEY

Figure A.2: New PhDs Awarded by Group



Comparing PhDs awarded in 2015-16 with those awarded in 2005-06:

- PhDs awarded have increased more than 48% over the last 10 years.
- Degrees awarded by Doctoral Math and by Statistics/Biostatistics combined have increased 47% and 42%, respectively.

Employment

The overall US unemployment rate for the new doctoral recipients is 5.9%, essentially the same as the 6.1% in 2014-15. (Details on the calculations are on page 781.) The employment plans are known for 1,746 of the 1,921 new doctoral recipients. The number of new doctoral recipients employed in the US is 1,449, essentially the same as last year. Among those new PhDs employed in Doctoral Math departments, 68% are in postdoc positions, down from 75% last year. The number of new PhDs taking positions in Business & Industry is 495; last year's count was 492. All groups except Math Public Medium, Statistics and Biostatistics showed an increase in Business & Industry.

Figure E.1: Employment Status

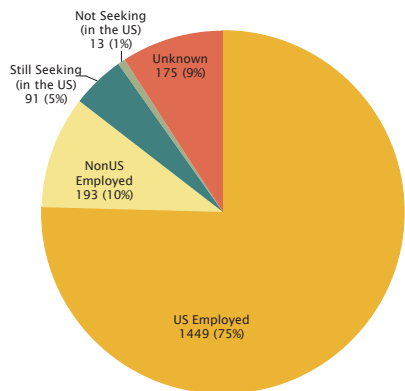
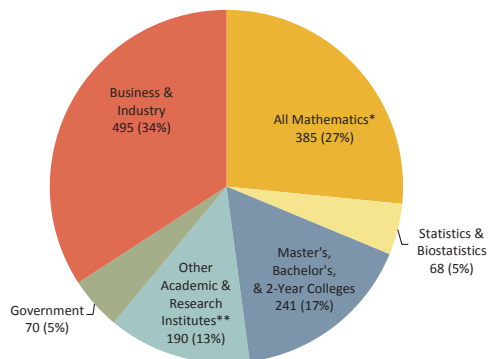


Figure E.2: US Employed by Type of Employer



- 52% (757) of those who are employed in the US are US citizens, up from 50% last year.
- 79% (692) of non-US citizens whose employment status is known are employed in the US, the remaining 179 non-US citizens are either employed outside of the US or are unemployed.
- 8% (133) of the new PhDs who are employed are working at the institution that granted their degree, down from 9% last year. These individuals constitute 15% of total US academic employed.
- 57% of those still seeking employment in the US are US citizens.

- *Includes all Math Public, Math Private, and Applied Math departments.
- **Other Academic consists of departments outside the mathematical sciences including numerous medical-related units.
- US academic hiring increased 2% to 884 compared to 864 last year.
- Government hiring decreased 21% (from 88 to 70); all doctoral-granting groups except Math Public Medium, Math Private Large, Math Private Small, and Applied Math showed decreases in the number of PhDs taking positions in this sector.