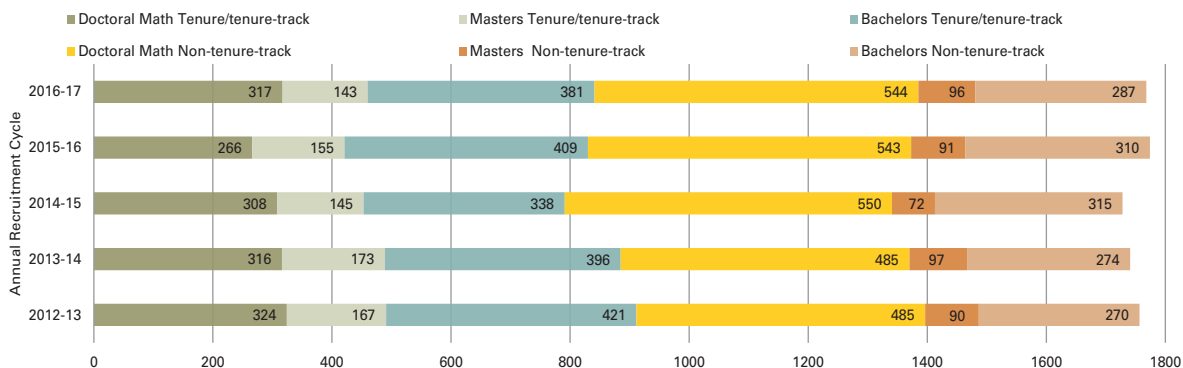


**Overview of Recruitment**

The 2016-17 data shows that 1,999 positions were under recruitment (in 2015-16 this figure was 1,994). Most groups reported increases in recruitment, though Math Private Large (↓25%), Applied Math (↓15%), and Masters and Bachelors (↓6%), reported decreases.

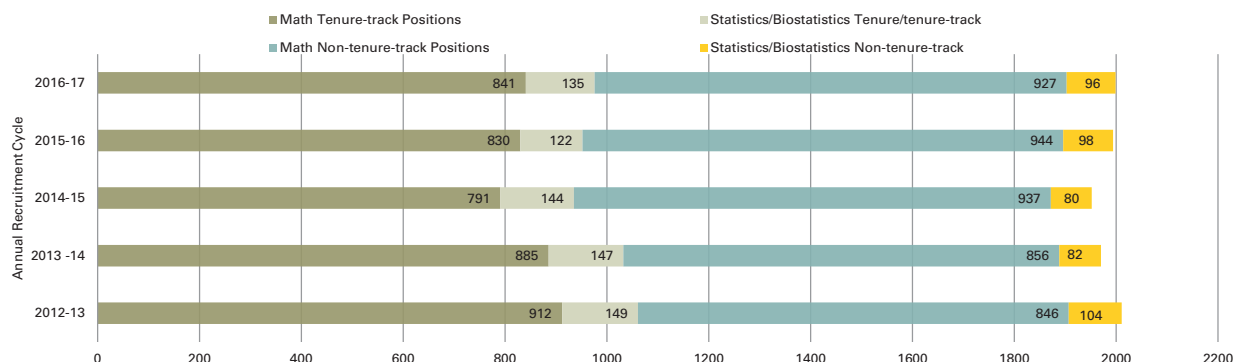
**Figure R.1: Positions Under Recruitment in Mathematical Sciences**



During the 2016-17 academic year, the estimated number of full-time positions under recruitment in mathematical sciences departments was 1,999. This figure breaks down as follows: 841 tenure-track mathematics positions, 927 non-tenure-track mathematics positions, 135 tenure-track statistics or biostatistics positions, and 96 non-tenure-track statistics or biostatistics positions. See Figure R.1 for comparisons. In the period from 2012 to 2017, the overall percentage of positions under recruitment that were tenure-track ranged from 48% to 53%, with the highest percentages in 2012-13 and 2013-14 of this range of time.

- Overall features in the 2016-2017 cycle:
  - The estimated number of positions under recruitment was 1,999; this figure represents a slight increase from last year's estimate of 1,994 positions.
  - Women account for 31% of those hired; down from 32% in 2015-16.
  - Since 2010 recruitment has increased 65% in all Mathematical Sciences, increased 63% in Math, and increased 75% in Stats.
- Tenure-track positions under recruitment:
  - Open tenure-track positions increased 3% overall from 2015-16.
  - 49% (976) of all positions under recruitment were tenure-track. Of these 976 positions, 85% (831) were open to new PhDs, and 21% (201) were at the rank of associate/full professor.
- Non-tenure-track positions under recruitment:
  - Non-tenure-track positions decreased 2% overall, to 1,023 from 1,042 the previous year.
  - 51% (1,023) of all positions under recruitment were non-tenure-track.

**Figure R.2: Positions Under Recruitment in Mathematics Departments by Highest Degree Offered**



**ANNUAL SURVEY**

In Math the number of positions under recruitment (1,768) in 2016-17 is comparable with the previous year (1,774). See Figure R.2. Over the period since 2006-07 recruitment in Doctoral departments has increased by 13%, in Masters departments decreased by 14%, and in Bachelors departments decreased by 10%. In the same ten-year period, the net number of mathematics positions under recruitment has decreased by 1%.

In Stats, the number of positions under recruitment in 2016-17 was 231 a 5% increase over 2015-16. Since 2012-13 positions under recruitment has fluctuated between 220 and 253.

# Annual Survey of the Mathematical Sciences

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**Table R.1:** Recruitment and Hiring of Faculty in the Mathematical Sciences, Fall 2017 by Department Grouping

	Math Public Large Group	Math Public Medium Group	Math Public Small Group	Math Private Large Group	Math Private Small Group	Applied Math Group	Statistics Group	Biostatistics Group	Total Doctoral Math	Total Stats	Total Doctoral	Masters	Bachelors	Total Math	Grand Total
<b>Recruited Doctoral Positions Total Number (% of Total)</b>	<b>198</b>	<b>193</b>	<b>184</b>	<b>175</b>	<b>60</b>	<b>51</b>	<b>126</b>	<b>105</b>	<b>861</b>	<b>231</b>	<b>1092</b>	<b>239</b>	<b>668</b>	<b>1768</b>	<b>1999</b>
<i>Standard Error</i>	7	8	8	12	12	6	10	10	20	19	24	18	35	44	46
Tenured or tenure-track	52	81	90	45	26	23	75	60	317	135	452	143	381	841	976
Open to new doctoral recipients	38	62	76	19	18	15	59	52	228	111	339	136	356	1281	1392
Open to assoc/full level	16	16	14	19	4	12	37	15	81	52	133	9	59	386	438
Non-tenure-track	146	112	94	130	34	28	51	45	544	96	640	96	287	1759	1855
Open to new doctoral recipients	143	107	91	129	34	28	49	38	532	87	619	84	259	1668	1755
Temporary 1-year appointments	35	28	56	2	5	10	24	-	136	24	160	50	143	537	561
<b>Reported Hires for Above Total number (% of Total Recruited In Group)</b>	<b>180 (91%)</b>	<b>176 (91%)</b>	<b>161 (88%)</b>	<b>160 (91%)</b>	<b>56 (93%)</b>	<b>43 (84%)</b>	<b>87 (69%)</b>	<b>84 (80%)</b>	<b>776 (90%)</b>	<b>171 (74%)</b>	<b>947 (87%)</b>	<b>207 (87%)</b>	<b>543 (81%)</b>	<b>1526 (86%)</b>	<b>1697 (85%)</b>
<b>Tenured or tenure-track Hires</b>	<b>44</b>	<b>72</b>	<b>74</b>	<b>31</b>	<b>23</b>	<b>13</b>	<b>51</b>	<b>43</b>	<b>257</b>	<b>94</b>	<b>351</b>	<b>117</b>	<b>295</b>	<b>669</b>	<b>763</b>
Doctoral hires															
Men	36	52	57	26	13	10	43	22	194	65	259	83	178	455	520
New doctoral hires	2	2	3	1	-	-	18	7	8	25	33	25	73	106	131
Not new doctoral hires	34	50	54	25	13	10	25	15	186	40	226	58	105	349	389
Previously in non-tenure-track	8	6	10	1	5	1	4	1	31	5	36	19	33	83	88
Previously in postdoc	23	32	38	15	6	4	3	11	118	14	132	27	38	183	197
Women	8	20	17	5	10	3	8	21	63	29	92	34	115	212	241
New doctoral hires	1	7	4	-	1	-	4	4	13	8	21	24	54	91	99
Not new doctoral hires	7	13	13	5	9	3	4	17	50	21	71	10	61	121	142
Previously in non-tenure-track	1	-	-	-	1	-	-	5	2	5	7	1	18	21	26
Previously in postdoc	5	9	7	3	6	3	-	9	33	9	42	7	19	59	68
Other	-	-	-	-	-	-	-	-	-	-	-	-	2	2	2
New doctoral hires	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Not new doctoral hires	-	-	-	-	-	-	-	-	-	-	-	-	2	2	2
Previously in non-tenure-track	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Previously in postdoc	-	-	-	-	-	-	-	-	-	-	-	-	2	2	2
<b>Non-tenure-track Hires</b>	<b>136</b>	<b>104</b>	<b>87</b>	<b>129</b>	<b>33</b>	<b>30</b>	<b>36</b>	<b>41</b>	<b>519</b>	<b>77</b>	<b>596</b>	<b>90</b>	<b>248</b>	<b>857</b>	<b>934</b>
Doctoral hires	131	101	77	128	33	27	36	41	497	77	574	42	205	744	821
Men	97	75	54	98	28	20	23	25	372	48	420	35	146	553	601
New doctoral hires	66	44	32	75	18	12	12	12	247	24	271	10	64	321	345
Not new doctoral hires	31	31	22	23	10	8	11	13	125	24	149	25	82	232	256
Postdoc appointments	79	44	23	71	16	15	8	12	248	20	268	4	19	271	291
1-year appointments	16	9	23	3	4	3	4	-	58	4	62	29	61	148	152
Women	34	26	23	30	5	7	13	16	125	29	154	7	59	191	220
New doctoral hires	23	8	11	22	4	4	8	8	72	16	88	5	23	100	116
Not new doctoral hires	11	18	12	8	1	3	5	8	53	13	66	2	36	91	104
Postdoc appointments	28	11	3	23	4	4	7	7	73	14	87	-	4	77	91
1-year appointments	7	2	8	-	-	-	3	-	17	3	20	21	31	69	72
Nondoctoral hires	5	3	10	1	-	3	-	-	22	-	22	48	43	113	113
Men	4	1	4	1	-	-	-	-	10	-	10	18	16	44	44
Women	1	2	6	-	-	3	-	-	12	-	12	30	27	69	69
Other	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
<b>Unfilled positions</b>	<b>18</b>	<b>17</b>	<b>23</b>	<b>15</b>	<b>4</b>	<b>10</b>	<b>39</b>	<b>21</b>	<b>87</b>	<b>60</b>	<b>147</b>	<b>27</b>	<b>18</b>	<b>132</b>	<b>192</b>

# Annual Survey of the Mathematical Sciences

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**Table R.2**

Summary of Recruitment & Hiring of Doctoral Faculty by Position, and Gender, Fall 2017

	Doctoral Math	Masters and Bachelors	Statistics & Biostatistics	Total
<b>Doctoral Positions under recruitment</b>				
<b>Total Number</b>	<b>861</b>	<b>907</b>	<b>231</b>	<b>1999</b>
Tenure or tenure-track	317	524	135	976
Open to new doctoral recipients	228	492	111	831
Open to assoc/full level	81	68	52	201
Non-tenure-track	544	383	96	1023
Open to new doctoral recipients	532	343	87	962
1-year appointments	136	193	24	353
<b>Reported Hires for Above, excluding temporary hires</b>				
<b>Total hires</b>	<b>776</b>	<b>750</b>	<b>171</b>	<b>1697</b>
Tenure or tenure-track	257	412	94	763
Previously in non-tenure-track	33	71	10	114
Previously in postdoc	151	93	23	267
Non-tenure-track	519	338	77	934
1-year appointments	75	142	7	224
Postdoc appointments	321	27	34	382
<b>Total doctoral hires</b>	<b>435</b>	<b>557</b>	<b>131</b>	<b>1584</b>
New doctoral hires	340	278	73	691
Tenured or tenure-track	21	176	33	230
Men	255	172	49	476
Women	-	106	24	130
Tenured or tenure-track	13	78	8	99
Other	-	-	-	-
Tenured or tenure-track	-	-	-	-
Not-new doctoral hires	414	381	98	893
Tenured or tenure-track	236	234	61	531
Men	311	270	64	645
Women	186	163	40	389
Tenured or tenure-track	103	109	34	246
Other	50	71	21	142
Tenured or tenure-track	-	2	-	2
Other	-	-	-	-
Tenured or tenure-track	-	2	-	2
<b>Total Non-doctoral hires</b>	<b>22</b>	<b>91</b>	<b>-</b>	<b>113</b>
Men	10	34	-	44
Women	12	57	-	69
Other	-	-	-	-

Table R.2 provides a summary breakdown of Table R.1 that aggregates the results for Doctoral Math Groups, for Masters and Bachelors, and for Statistics and Biostatistics.

# Annual Survey of the Mathematical Sciences

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**Table R.4**  
Summary of Total Recruitment & Hiring of Faculty in the Mathematical Sciences by Department Grouping for Fall 2017

	Math Public Large Group	Math Public Medium Group	Math Public Small Group	Math Private Large Group	Math Private Small Group	Applied Math Group	Statistics Group	Biostatistics Group	Total Doctoral Math	Total Stats	Total Doctoral	Masters	Bachelors	Total Math	Grand Total
<b>Total Doctoral Positions Under Recruitment</b>	<b>198</b>	<b>193</b>	<b>184</b>	<b>175</b>	<b>60</b>	<b>51</b>	<b>126</b>	<b>105</b>	<b>861</b>	<b>231</b>	<b>1092</b>	<b>239</b>	<b>668</b>	<b>1768</b>	<b>1999</b>
<i>Standard Error</i>	7	8	8	12	12	6	10	10	20	19	24	18	35	44	46
Tenured or tenure-track Hires	52	81	90	45	26	23	75	60	317	135	452	143	381	841	976
Non-tenure-track Hires	146	112	94	130	34	28	51	45	544	96	640	96	287	927	1023
<b>Total Hires</b>	<b>180</b>	<b>176</b>	<b>161</b>	<b>160</b>	<b>56</b>	<b>43</b>	<b>87</b>	<b>84</b>	<b>776</b>	<b>171</b>	<b>947</b>	<b>207</b>	<b>543</b>	<b>1526</b>	<b>1697</b>
Tenured or tenure-track Hires	44	72	74	31	23	13	51	43	257	94	351	117	295	669	763
Non-tenure-track Hires	136	104	87	129	33	30	36	41	519	77	596	90	248	857	934
<b>Total Hires by Gender</b>	<b>180</b>	<b>176</b>	<b>161</b>	<b>160</b>	<b>56</b>	<b>43</b>	<b>87</b>	<b>84</b>	<b>776</b>	<b>171</b>	<b>947</b>	<b>207</b>	<b>543</b>	<b>1526</b>	<b>1697</b>
Men hires	137	128	115	125	41	30	66	47	576	113	689	136	340	1052	1165
Women hires	43	48	46	35	15	13	21	37	200	58	258	71	201	472	530
Other hires	-	-	-	-	-	-	-	-	-	-	-	-	2	2	2
<b>Unfilled positions</b>	<b>18</b>	<b>17</b>	<b>23</b>	<b>15</b>	<b>4</b>	<b>10</b>	<b>39</b>	<b>21</b>	<b>87</b>	<b>60</b>	<b>147</b>	<b>27</b>	<b>18</b>	<b>132</b>	<b>192</b>

Table R.4 provides portion counts, total hires, and hires by gender, as well as counts of unfilled positions, all broken down by the complete set of departmental groupings.

# Annual Survey of the Mathematical Sciences

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**Table R.5**  
Percentage of Women Hired into Positions Requiring a Doctorate for Fall **2017** in the Mathematical Sciences

	Math Public Large Group	Math Public Medium Group	Math Public Small Group	Math Private Large Group	Math Private Small Group	Applied Math Group	Statistics Group	Biostatistics Group	Total Doctoral Math	Total Stats	Total Doctoral	Masters	Bachelors	Total Math	Grand Total
<b>Total Hires</b>	<b>180</b>	<b>176</b>	<b>161</b>	<b>160</b>	<b>56</b>	<b>43</b>	<b>87</b>	<b>84</b>	<b>776</b>	<b>171</b>	<b>947</b>	<b>207</b>	<b>543</b>	<b>1526</b>	<b>1697</b>
% Women	24%	27%	29%	22%	27%	30%	24%	44%	26%	34%	27%	34%	37%	31%	31%
<b>Women as a percentage of hires</b>															
<b>Tenured or tenure-track</b>	<b>18%</b>	<b>28%</b>	<b>23%</b>	<b>16%</b>	<b>43%</b>	<b>23%</b>	<b>16%</b>	<b>49%</b>	<b>25%</b>	<b>31%</b>	<b>32%</b>	<b>29%</b>	<b>39%</b>	<b>32%</b>	<b>32%</b>
New doctoral	33%	78%	57%	-	100%	-	18%	36%	62%	24%	43%	49%	43%	46%	43%
Not new doctoral	17%	21%	19%	17%	41%	23%	14%	53%	21%	34%	27%	15%	37%	26%	27%
Previously in non-tenure-track	11%	-	-	-	17%	-	-	83%	6%	50%	23%	5%	35%	20%	23%
Previously in postdoc	18%	22%	16%	17%	50%	43%	-	45%	22%	39%	26%	21%	33%	24%	26%
<b>Non-tenured-track</b>	<b>26%</b>	<b>27%</b>	<b>33%</b>	<b>23%</b>	<b>15%</b>	<b>33%</b>	<b>36%</b>	<b>39%</b>	<b>26%</b>	<b>38%</b>	<b>31%</b>	<b>41%</b>	<b>35%</b>	<b>30%</b>	<b>31%</b>
New doctoral hires	26%	15%	26%	23%	18%	25%	40%	40%	23%	40%	25%	33%	26%	24%	25%
Not new doctoral hires	26%	37%	35%	26%	9%	27%	31%	38%	30%	35%	29%	7%	31%	28%	29%
Nondoctoral hires	20%	67%	60%	-	-	100%	-	-	55%	-	61%	63%	63%	61%	61%
Postdoc appointments	26%	20%	12%	24%	20%	21%	47%	37%	23%	41%	24%	-	17%	22%	24%
1-year appointments	30%	18%	26%	-	-	-	43%	-	23%	43%	32%	42%	34%	32%	32%

Table R.5 looks only at the characteristics, by percentages of the whole group of hires, of the female hires.

# Annual Survey of the Mathematical Sciences

[www.ams.org/annual-survey](http://www.ams.org/annual-survey)

**Table R.3**

Summary of Doctoral Faculty Positions under Recruitment and Filled  
with the Percentage of Tenured or tenure-track, Fall 2017

Positions	Doctoral Math	Masters and Bachelors	Statistics & Biostatistics	Total
Recruited tenured or tenure-track positions open to new doctoral recipients	228	492	111	831
% Tenured or tenure-track	72%	94%	82%	85%
Recruited positions filled by new doctoral recipients	340	278	73	691
% Tenured or tenure-track	6%	63%	45%	33%
Recruited positions filled by not-new doctoral recipients	414	381	98	893
% Tenured or tenure-track	57%	61%	62%	59%

Annual Survey of the Mathematical Sciences

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Table R.6  
Recruitment & Hiring of Doctoral Faculty, Fall 2017

	Math Public Large Group	Math Public Medium Group	Math Public Small Group	Math Private Large Group	Math Private Small Group	Applied Math Group	Statistics Group	Biostatistics Group	Total Doctoral Math	Total Stats	Total Doctoral	Masters	Bachelors	Total Math	Grand Total
<b>Posted Doctoral Positions</b>															
<b>Total Number</b>	<b>198</b>	<b>193</b>	<b>184</b>	<b>175</b>	<b>60</b>	<b>51</b>	<b>126</b>	<b>105</b>	<b>861</b>	<b>231</b>	<b>1092</b>	<b>239</b>	<b>668</b>	<b>1768</b>	<b>1999</b>
<i>Standard Error</i>	7	8	8	12	12	6	10	10	20	19	24	18	35	44	46
Tenured or tenure-track	52	81	90	45	26	23	75	60	317	135	452	143	381	841	976
Open to new doctoral recipients	38	62	76	19	18	15	59	52	228	111	339	136	356	720	831
Open to assoc/full level	16	16	14	19	4	12	37	15	81	52	133	9	59	149	201
Non-tenure-track	146	112	94	130	34	28	51	45	544	96	640	96	287	927	1023
Open to new doctoral recipients	143	107	91	129	34	28	49	38	532	87	619	84	259	875	962
Temporary 1-year appointments	35	28	56	2	5	10	24	-	136	24	160	50	143	329	353
<b>Reported Hires for Above by Gender</b>															
<b>Total number</b>	<b>180</b>	<b>176</b>	<b>161</b>	<b>160</b>	<b>56</b>	<b>43</b>	<b>87</b>	<b>84</b>	<b>776</b>	<b>171</b>	<b>947</b>	<b>207</b>	<b>543</b>	<b>1526</b>	<b>1697</b>
<b>Men doctoral hires</b>	<b>133</b>	<b>127</b>	<b>111</b>	<b>124</b>	<b>41</b>	<b>30</b>	<b>66</b>	<b>47</b>	<b>566</b>	<b>113</b>	<b>679</b>	<b>118</b>	<b>324</b>	<b>1008</b>	<b>1121</b>
Tenured or tenure-track	36	52	57	26	13	10	43	22	194	65	259	83	178	455	520
Non-tenure-track	97	75	54	98	28	20	23	25	372	48	420	35	146	553	601
Postdoc appointments	79	44	23	71	16	15	8	12	248	20	268	4	19	271	291
1-year appointments	16	9	23	3	4	3	4	-	58	4	62	29	61	148	152
<b>Women doctoral hires</b>	<b>42</b>	<b>46</b>	<b>40</b>	<b>35</b>	<b>15</b>	<b>10</b>	<b>21</b>	<b>37</b>	<b>188</b>	<b>58</b>	<b>246</b>	<b>41</b>	<b>174</b>	<b>403</b>	<b>461</b>
Tenured or tenure-track	8	20	17	5	10	3	8	21	63	29	92	34	115	212	241
Non-tenure-track	34	26	23	30	5	7	13	16	125	29	154	7	59	191	220
Postdoc appointments	28	11	3	23	4	4	7	7	73	14	87	-	4	77	91
1-year appointments	7	2	8	-	-	-	3	-	17	3	20	21	31	69	72
<b>Other doctoral hires</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>2</b>	<b>2</b>	<b>2</b>
<b>Nondoctoral hires</b>	<b>5</b>	<b>3</b>	<b>10</b>	<b>1</b>	<b>-</b>	<b>3</b>	<b>-</b>	<b>-</b>	<b>22</b>	<b>-</b>	<b>22</b>	<b>48</b>	<b>43</b>	<b>113</b>	<b>113</b>
Men	4	1	4	1	-	-	-	-	10	-	10	18	16	44	44
Women	1	2	6	-	-	3	-	-	-	-	-	30	27	57	-
Other	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
<b>Total new doctoral hires</b>	<b>92</b>	<b>61</b>	<b>50</b>	<b>98</b>	<b>23</b>	<b>16</b>	<b>42</b>	<b>31</b>	<b>340</b>	<b>73</b>	<b>413</b>	<b>64</b>	<b>214</b>	<b>618</b>	<b>691</b>
Men new doctoral hires	68	46	35	76	18	12	30	19	255	49	304	35	137	427	476
Tenured or tenure-track	2	2	3	1	-	-	18	7	8	25	33	25	73	106	131
Women new doctoral hires	24	15	15	22	5	4	12	12	85	24	109	29	77	191	215
Tenured or tenure-track	1	7	4	-	1	-	4	4	13	8	21	24	54	91	99
Other new doctoral hires	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Tenured or tenure-track	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
<b>Unfilled positions</b>	<b>18</b>	<b>17</b>	<b>23</b>	<b>15</b>	<b>4</b>	<b>10</b>	<b>39</b>	<b>21</b>	<b>87</b>	<b>60</b>	<b>147</b>	<b>27</b>	<b>18</b>	<b>132</b>	<b>192</b>



# Annual Survey of the Mathematical Sciences

www.ams.org/annual-survey

**Table R.7**

Summary of Recruitment & Hiring of Faculty, Fall 2017

	Doctoral Math	Masters and Bachelors	Statistics & Biostatistics	Total
<b>Doctoral Positions under recruitment</b>				
<b>Total Number</b>	<b>861</b>	<b>907</b>	<b>231</b>	<b>1999</b>
Tenure or tenure-track	317	524	135	976
Non-tenure-track	544	383	96	1023
<b>Reported Hires for Above, excluding temporary hires</b>				
<b>Hires by type of position</b>	<b>776</b>	<b>750</b>	<b>171</b>	<b>1697</b>
Tenure or tenure-track	257	412	94	763
Previously in non-tenure-track	33	71	10	114
Previously in postdoc	151	93	23	267
Non-tenure-track	519	338	77	934
1-year appointments	75	142	7	224
Previously in postdoc	321	27	34	382
<b>Gender of hires</b>	<b>776</b>	<b>750</b>	<b>171</b>	<b>1697</b>
Men	576	476	113	1165
Women	200	272	58	530
Other	-	2	-	2
<b>Hires by type of position &amp; gender</b>	<b>776</b>	<b>750</b>	<b>171</b>	<b>1697</b>
Tenure or tenure-track	257	412	94	763
Men	194	261	65	520
Women	63	149	29	241
Other	-	2	-	2
Non-tenure-track	519	338	77	934
Men	382	215	48	645
Women	137	123	29	289
Other	-	-	-	-
<b>Total hires by doctoral degree</b>	<b>776</b>	<b>750</b>	<b>171</b>	<b>1697</b>
Doctoral hires	754	659	171	1584
Men	566	442	113	1121
Women	188	215	58	461
Other	-	2	-	2
Non-doctoral hires	22	91	-	113
Men	10	34	-	44
Women	12	57	-	69
Other	-	-	-	-