

Positions Filled

A total of 1,697 full-time positions in Mathematical Sciences were filled during the 2016–17 academic cycle, 1,526 from Mathematics Departments and 171 from Statistics or Biostatistics. Figure F.1 gives a breakdown. The total for Math is up 59% from the 2009–10 cycle. For Stats, the number of filled positions is up 30% from 2009–10. One interesting feature implicit in these data is that the success rate for filling mathematical sciences tenure-track positions over the period 2012–17 is about 81%, whereas the success rate for non-tenure-track is about 95%.

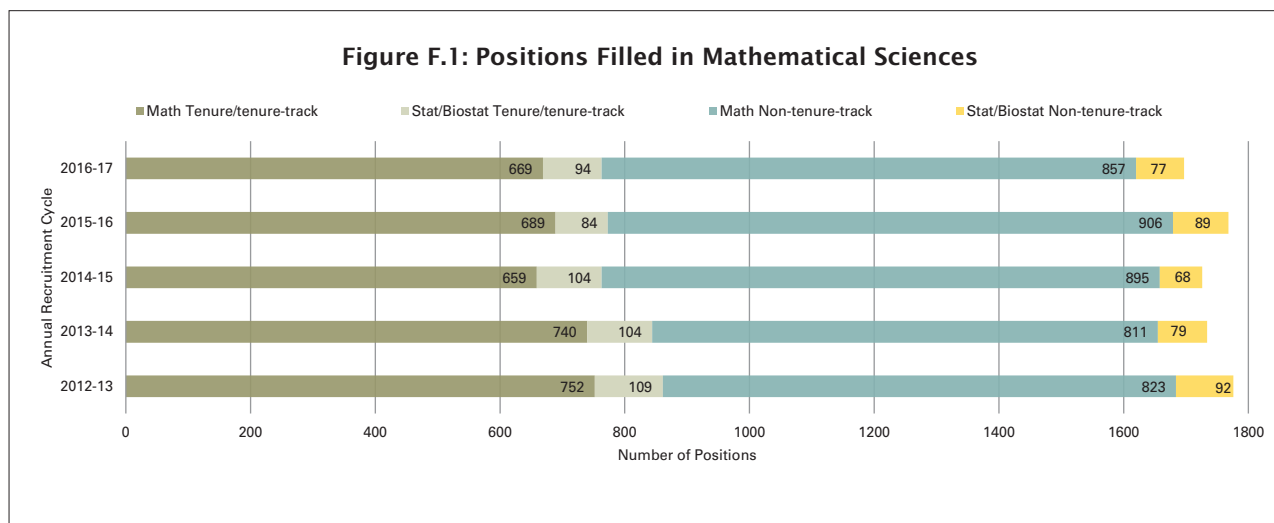
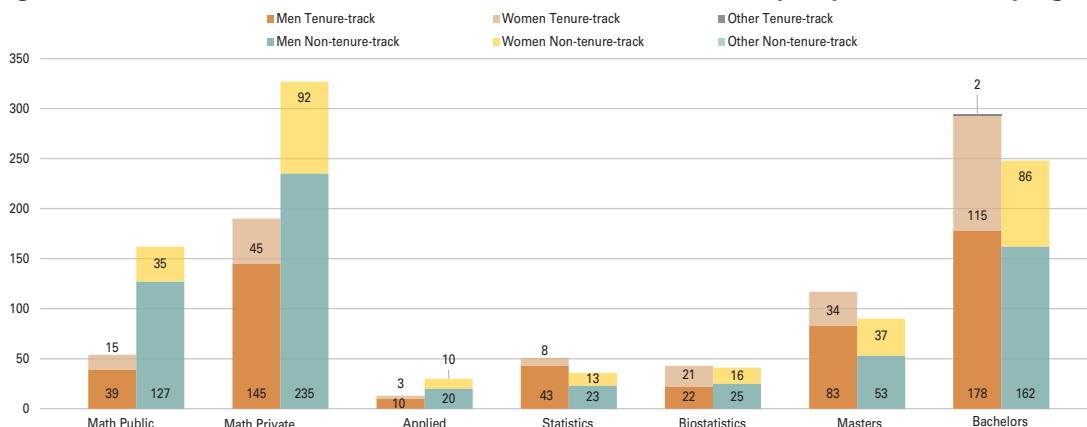


Figure F.2 gives a breakdown on hiring by gender and department grouping. Percentages generally are obtained by comparison with Figure R.1. Here are further highlights and comparisons from the data:

- Overall features of hires in mathematical sciences:
 - Women hold 31% (530) of positions filled.
 - Of all hires, 45% (763) were tenure-track; women constitute 32% (241) of these.
 - Of all hires, 55% (934) were non-tenure track; women constitute 31% (289) of these.
- Math and Stats breakdown:
 - In Math overall, 1,526 of 1,768 positions (86%) were filled; 31% of Math positions were filled by women.
 - In Stats, 171 of 231 positions (74%) were filled; 34% of Stats positions were filled by women.
- Tenure-track hires in mathematical sciences:
 - Of the tenure-track positions under recruitment, 78% (763) were filled.
 - Of tenure-track positions filled, 70% (531) were filled by doctoral faculty (i.e., not new PhDs). Of these positions filled by doctoral faculty, 27% went to women. In comparison with last year, all groups reported increases in tenure-track hires of doctoral faculty except Applied Math (↓24%), Statistics (↓4%), Masters (↓9%), and Bachelors (↓13%).
 - Of the 30% of tenure-track hires who were new PhDs, 43% were women.
 - Of tenure-track hires, 15% (114) had a non-tenure-track position last year; of these individuals, 23% were women.
 - Of tenure-track hires, 35% (267) held a postdoc last year, and 25% of these postdocs were women.
- Non-tenure-track hires
 - Of the 1,023 non-tenure-track positions under recruitment, 91% were filled. In comparison to last year, all groups reported decreased hiring of non-tenure-track faculty except Math Public Small (↑26%), Math Private Large (↑9%), and Masters (↑22%).
 - Of non-tenure-track hires, 39% (360) were filled by doctoral faculty (excluding new PhDs); 29% of these doctoral faculty hires were women.
 - Of non-tenure-track hires, 49% (461) were filled by new PhDs; 25% of these new PhD hires were women.

Figure F.2: Gender of Tenure-track and Non-tenure-track Hires by Department Grouping



- Non-tenure-track hires (continued)
 - Of non-tenure-track hires, 12% (113) were filled by non-doctoral faculty; 61% of these non-doctoral hires were women. Forty-two percent of these non-doctoral, non-tenure-track hires were in Masters departments.
 - Of non-tenure-track hires, 24% (224) are temporary (one-year); 32% of these temporary hires are women. About half of all temporary hires were in Bachelors departments.
 - Of non-tenure-track hires, 41% (382) were in postdoctoral positions; 23% of these postdocs were women.
- Women hires (see Figure F.2):
 - Of all hires, 31% (530) were women; of these women, Bachelors departments hired 38%, and Doctoral Math departments hired 38%.
 - In the Doctoral Math Group, women hires increased by 6% to 200.
 - All groups reported increases in the number of women hires over last year except Math Private Small (↓40%), Applied Math (↓30%), Statistics (↓34%), and Bachelors (↓14%) .
 - The number of women hired into tenure-track positions increased slightly to 241 from 238; the number hired into non-tenure-track positions increased by 12% to 289.
 - Women accounted for 32% of all tenure-track and 31% of all non-tenure track hires; in 2015-16 these percentages were, respectively, 31% and 26%.

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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
Recruited Doctoral Positions Total Number (% of Total)	198	193	184	175	60	51	126	105	861	231	1092	239	668	1768	1999
<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
Reported Hires for Above Total number (% of Total Recruited In Group)	180 (91%)	176 (91%)	161 (88%)	160 (91%)	56 (93%)	43 (84%)	87 (69%)	84 (80%)	776 (90%)	171 (74%)	947 (87%)	207 (87%)	543 (81%)	1526 (86%)	1697 (85%)
Tenured or tenure-track Hires	44	72	74	31	23	13	51	43	257	94	351	117	295	669	763
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
Non-tenure-track Hires	136	104	87	129	33	30	36	41	519	77	596	90	248	857	934
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	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Unfilled positions	18	17	23	15	4	10	39	21	87	60	147	27	18	132	192

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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
Doctoral Positions under recruitment				
Total Number	861	907	231	1999
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
Reported Hires for Above, excluding temporary hires				
Total hires	776	750	171	1697
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
Total doctoral hires	435	557	131	1584
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
Total Non-doctoral hires	22	91	-	113
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.

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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
Total Doctoral Positions Under Recruitment	198	193	184	175	60	51	126	105	861	231	1092	239	668	1768	1999
<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
Total Hires	180	176	161	160	56	43	87	84	776	171	947	207	543	1526	1697
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
Total Hires by Gender	180	176	161	160	56	43	87	84	776	171	947	207	543	1526	1697
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
Unfilled positions	18	17	23	15	4	10	39	21	87	60	147	27	18	132	192

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.

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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
Total Hires	180	176	161	160	56	43	87	84	776	171	947	207	543	1526	1697
% Women	24%	27%	29%	22%	27%	30%	24%	44%	26%	34%	27%	34%	37%	31%	31%
Women as a percentage of hires															
Tenured or tenure-track	18%	28%	23%	16%	43%	23%	16%	49%	25%	31%	32%	29%	39%	32%	32%
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%
Non-tenured-track	26%	27%	33%	23%	15%	33%	36%	39%	26%	38%	31%	41%	35%	30%	31%
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.

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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%

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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
Posted Doctoral Positions															
Total Number	198	193	184	175	60	51	126	105	861	231	1092	239	668	1768	1999
<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
Reported Hires for Above by Gender															
Total number	180	176	161	160	56	43	87	84	776	171	947	207	543	1526	1697
Men doctoral hires	133	127	111	124	41	30	66	47	566	113	679	118	324	1008	1121
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
Women doctoral hires	42	46	40	35	15	10	21	37	188	58	246	41	174	403	461
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
Other doctoral hires	-	-	-	-	-	-	-	-	-	-	-	-	2	2	2
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	-	-	-	-	-	30	27	57	-
Other	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Total new doctoral hires	92	61	50	98	23	16	42	31	340	73	413	64	214	618	691
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	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Unfilled positions	18	17	23	15	4	10	39	21	87	60	147	27	18	132	192

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Table R.7

Summary of Recruitment & Hiring of Faculty, Fall 2017

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Doctoral Positions under recruitment				
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Tenure or tenure-track	317	524	135	976
Non-tenure-track	544	383	96	1023
Reported Hires for Above, excluding temporary hires				
Hires by type of position	776	750	171	1697
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
Gender of hires	776	750	171	1697
Men	576	476	113	1165
Women	200	272	58	530
Other	-	2	-	2
Hires by type of position & gender	776	750	171	1697
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	-	-	-	-
Total hires by doctoral degree	776	750	171	1697
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	-	-	-	-