

# 2019-2020 Academic Salary Survey

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The 2019-2020 academic salary survey includes both faculty and non-faculty statisticians and biostatisticians. We received responses from 76 institutions in the United States. The data included 1,218 faculty and 296 non-faculty statisticians, with gender information. The quartiles and 90th percentile for relevant categories are provided in the summary tables.

## **Faculty Data**

The faculty data set, comprised of 790 males and 428 females, included faculty members in 23 statistics departments (N=488), 36 biostatistics departments (N=605) and 17 math sciences departments (N=125). Departments that were classified as both Math and Statistics were included with the Mathematical Sciences departments.

Table 1 summarizes salary information for full-time academic faculty in statistics departments by rank and years in rank, based on nine-month salary. Table 2 provides similar information for full-time academic faculty in biostatistics departments, but is based on twelve-month salary. Table 3 summarizes salary information on full-time academic faculty in the mathematical sciences departments by rank, based on nine-month salary. The salaries of all statistics and mathematical sciences faculty with contracts other than nine-months were adjusted appropriately to a nine-month salary. Similarly, the salaries of all biostatistics faculty with contracts other than twelve-months were adjusted appropriately to a twelve-month salary. Tables 4, 5, and 6 provide similar percentiles for the groups in Tables 1, 2, and 3, respectively, stratified by gender. Tables 8, 9, and 10 provide salary information by tenure status.

## **Non-faculty Data**

The non-faculty data set included 296 observations from 34 institutions, with 65 observations at the doctoral level, 225 at the master's level, and 6 at the bachelor's level. Of the 296 individuals, there were 253 from biostatistics departments, 35 from statistics departments, and 8 from mathematical sciences. Departments that were classified as both Math and Statistics were included with the Mathematical Sciences departments.

Table 7 provides the non-faculty salary distribution, stratified by highest degree (master's or doctorate) and years since obtaining the highest degree.

**Table 1. 2019-2020 Academic Faculty in Statistics Departments  
by Rank and Years in Rank, Based on 9-Month Salary**

<b>Rank</b>	<b>Years in Rank</b>	<b>N</b>	<b>1st Quartile</b>	<b>Median</b>	<b>3rd Quartile</b>	<b>90th Percentile</b>
<b>Professor</b>	0-2	24	\$107,261	\$115,994	\$153,867	\$232,200
	3-5	31	\$127,074	\$140,680	\$163,440	\$203,750
	6-9	27	\$118,381	\$144,405	\$218,400	\$261,300
	10-16	40	\$135,670	\$167,335	\$203,511	\$250,702
	17+	65	\$154,712	\$186,600	\$243,636	\$281,416
	All	187	\$128,172	\$160,000	\$210,000	\$261,300
<b>Associate Professor</b>	0-1	18	\$93,965	\$107,199	\$116,159	\$153,000
	2-3	18	\$107,572	\$115,128	\$129,181	\$156,400
	4-6	23	\$94,151	\$113,019	\$128,750	\$156,100
	7+	30	\$100,066	\$106,602	\$119,444	\$146,684
	All	89	\$99,342	\$108,405	\$125,000	\$153,000
<b>Assistant Professor</b>	0-1	35	\$97,000	\$102,214	\$111,000	\$128,750
	2-3	38	\$88,355	\$97,557	\$105,806	\$124,216
	4-5	30	\$83,654	\$96,575	\$109,447	\$119,729
	6+	14	\$65,397	\$93,849	\$110,013	\$117,300
	All	117	\$88,355	\$98,000	\$110,000	\$124,216
<b>Instructor</b>	All	95	\$52,704	\$62,000	\$76,000	\$95,824
<b>All Ranks</b>	<b>All</b>	<b>488</b>	<b>\$84,315</b>	<b>\$108,507</b>	<b>\$150,000</b>	<b>\$208,138</b>

**Table 2. 2019-2020 Academic Faculty in Biostatistics Departments  
by Rank and Years in Rank, Based on 12-Month Salary**

<b>Rank</b>	<b>Years in Rank</b>	<b>N</b>	<b>1st Quartile</b>	<b>Median</b>	<b>3rd Quartile</b>	<b>90th Percentile</b>
<b>Professor</b>	0-2	57	\$167,237	\$184,135	\$202,000	\$211,150
	3-5	39	\$185,630	\$204,198	\$225,714	\$297,583
	6-9	46	\$180,250	\$199,560	\$238,713	\$265,474
	10-16	57	\$197,679	\$209,936	\$274,693	\$322,695
	17+	40	\$217,418	\$254,078	\$309,425	\$340,297
	All	239	\$183,924	\$206,691	\$245,000	\$301,570
<b>Associate Professor</b>	0-1	34	\$130,008	\$141,013	\$150,120	\$165,000
	2-3	50	\$134,080	\$147,315	\$157,513	\$163,113
	4-6	53	\$136,519	\$144,763	\$155,019	\$181,150
	7+	44	\$140,185	\$149,114	\$173,881	\$183,469
	All	181	\$135,000	\$145,695	\$157,522	\$180,869
<b>Assistant Professor</b>	0-1	39	\$108,000	\$114,000	\$123,600	\$131,040
	2-3	58	\$109,304	\$117,896	\$122,168	\$131,328
	4-5	41	\$109,252	\$115,201	\$124,314	\$126,721
	6+	36	\$110,169	\$118,430	\$132,581	\$142,000
	All	174	\$109,252	\$116,000	\$124,541	\$133,428
<b>Instructor</b>	All	11	\$81,600	\$90,459	\$109,344	\$118,691
<b>All Ranks</b>	<b>All</b>	<b>605</b>	<b>\$122,673</b>	<b>\$149,104</b>	<b>\$196,485</b>	<b>\$244,953</b>

**Table 3. 2019-2020 Academic Faculty in Mathematical Sciences Departments  
by Rank, Based on 9-Month Salary**

<b>Rank</b>	<b>N</b>	<b>1st Quartile</b>	<b>Median</b>	<b>3rd Quartile</b>	<b>90th Percentile</b>
<b>Professor</b>	49	\$96,657	\$105,063	\$118,292	\$128,427
<b>Associate Professor</b>	18	\$80,630	\$85,266	\$97,086	\$107,000
<b>Assistant Professor</b>	41	\$71,000	\$81,791	\$86,000	\$88,000
<b>Instructor</b>	17	\$53,000	\$57,000	\$64,743	\$76,036
<b>All Ranks</b>	<b>125</b>	<b>\$74,700</b>	<b>\$84,000</b>	<b>\$102,553</b>	<b>\$118,292</b>

**Table 4. 2019-2020 Academic Faculty in Statistics Departments  
by Rank, Years in Rank and Gender, Based on 9-Month Salary**

Rank	Years in Rank	Gender	N	1st Quartile	Median	3rd Quartile	90th Percentile
Professor	0-6	Female	20	\$115,087	\$131,516	\$134,903	\$167,500
		Male	44	\$115,994	\$140,045	\$178,150	\$228,524
	7+	Female	15	\$156,255	\$206,848	\$227,000	\$232,000
		Male	108	\$141,824	\$170,490	\$226,899	\$281,416
	All	Female	35	\$115,246	\$134,000	\$205,682	\$227,000
		Male	152	\$130,397	\$163,328	\$213,510	\$269,551
Associate Professor	0-2	Female	10	\$59,593	\$104,307	\$111,534	\$135,950
		Male	17	\$102,000	\$110,724	\$138,000	\$160,000
	3+	Female	21	\$101,333	\$103,560	\$114,773	\$125,900
		Male	41	\$96,335	\$109,848	\$128,750	\$150,763
	All	Female	31	\$94,151	\$103,560	\$114,773	\$125,900
		Male	58	\$99,342	\$110,286	\$129,877	\$156,100
Assistant Professor	0-2	Female	13	\$88,000	\$91,000	\$101,385	\$111,540
		Male	39	\$94,860	\$101,365	\$110,000	\$128,750
	3+	Female	26	\$75,100	\$94,925	\$100,225	\$124,216
		Male	39	\$92,769	\$103,630	\$110,400	\$118,000
	All	Female	39	\$75,100	\$92,718	\$100,887	\$117,300
		Male	78	\$94,860	\$101,375	\$110,000	\$128,750
Instructor	All	Female	46	\$52,704	\$61,750	\$76,569	\$97,186
		Male	49	\$53,000	\$62,182	\$75,570	\$95,824

**Table 5. 2019-2020 Academic Faculty in Biostatistics Departments  
by Rank, Years in Rank and Gender, Based on 12-Month Salary**

<b>Rank</b>	<b>Years in Rank</b>	<b>Gender</b>	<b>N</b>	<b>1st Quartile</b>	<b>Median</b>	<b>3rd Quartile</b>	<b>90th Percentile</b>
<b>Professor</b>	0-6	Female	47	\$176,907	\$191,730	\$210,197	\$235,801
		Male	65	\$176,312	\$194,651	\$210,421	\$265,000
	7+	Female	36	\$201,087	\$222,664	\$278,646	\$319,000
		Male	91	\$196,000	\$225,000	\$278,158	\$322,695
	All	Female	83	\$182,303	\$201,444	\$240,000	\$283,353
		Male	156	\$185,290	\$208,490	\$246,932	\$309,958
<b>Associate Professor</b>	0-2	Female	21	\$130,008	\$145,000	\$157,513	\$185,000
		Male	38	\$131,520	\$143,214	\$155,843	\$162,007
	3+	Female	52	\$131,224	\$148,346	\$159,125	\$180,869
		Male	70	\$139,000	\$146,257	\$159,136	\$182,893
	All	Female	73	\$131,018	\$147,800	\$158,108	\$181,850
		Male	108	\$136,590	\$145,519	\$156,821	\$177,504
<b>Assistant Professor</b>	0-2	Female	28	\$109,106	\$115,204	\$126,251	\$134,734
		Male	41	\$107,000	\$113,500	\$117,835	\$124,606
	3+	Female	44	\$113,957	\$121,776	\$127,662	\$138,776
		Male	61	\$109,304	\$116,000	\$123,064	\$137,304
	All	Female	72	\$112,540	\$118,491	\$126,952	\$135,000
		Male	102	\$108,447	\$114,223	\$121,115	\$130,024
<b>Instructor</b>	All	Female	7	\$83,000	\$90,459	\$98,604	\$118,691
		Male	4	\$68,983	\$95,472	\$120,672	\$132,000

**Table 6. 2019-2020 Academic Faculty in Mathematical Sciences Departments  
by Rank and Gender, Based on 9-Month Salary**

Rank	Gender	N	1st Quartile	Median	3rd Quartile	90th Percentile
Professor	Female	7	\$74,700	\$81,892	\$102,706	\$111,038
	Male	42	\$97,957	\$111,479	\$119,268	\$128,427
Associate Professor	Female	9	\$83,466	\$88,642	\$92,071	\$101,339
	Male	9	\$80,630	\$81,892	\$102,553	\$115,708
Assistant Professor	Female	17	\$72,000	\$82,056	\$87,806	\$88,000
	Male	24	\$66,317	\$81,738	\$83,465	\$88,088
Instructor	Female	9	\$53,568	\$56,164	\$64,743	\$83,387
	Male	8	\$50,500	\$57,347	\$65,661	\$76,036

**Table 7. 2019-2020 Academic Non-Faculty Statisticians\*  
by Highest Degree and Years Since Highest Degree, Based on 12-month salary**

Highest Degree	Years Since Highest Degree	N	1st Quartile	Median	3rd Quartile	90th Percentile
Doctorate	0-1	25	\$63,860	\$65,125	\$65,125	\$72,000
	2-7	20	\$65,552	\$76,081	\$91,000	\$105,677
	8+	20	\$80,492	\$93,500	\$108,954	\$125,458
	All	65	\$65,125	\$67,278	\$92,000	\$108,238
Master's	0-2	57	\$62,500	\$66,992	\$78,694	\$87,500
	3-5	49	\$65,000	\$70,200	\$84,195	\$101,347
	6-9	26	\$75,000	\$78,056	\$85,835	\$97,104
	10-15	41	\$76,756	\$84,075	\$94,363	\$103,256
	16+	52	\$93,763	\$104,339	\$123,305	\$132,897
	All	225	\$66,992	\$80,000	\$96,941	\$118,200
Bachelor's	All	6	\$64,462	\$72,404	\$93,666	\$121,606

*\*Includes 253 from Biostatistics, 35 from Statistics, and 8 from Mathematical Sciences departments*

**Table 8. 2019-2020 Academic Faculty in Statistics Departments  
by Tenure Status, Rank and Years in Rank, Based on 9-Month Salary**

**Tenured or Tenure Track**

<b>Rank</b>	<b>Years in Rank</b>	<b>N</b>	<b>1st Quartile</b>	<b>Median</b>	<b>3rd Quartile</b>	<b>90th Percentile</b>
<b>Professor</b>	0-3	28	\$110,602	\$122,370	\$153,042	\$232,200
	4-7	36	\$127,797	\$140,340	\$185,000	\$225,000
	8-14	42	\$128,172	\$167,325	\$219,215	\$265,350
	15-20	26	\$161,969	\$185,013	\$227,250	\$259,500
	21+	48	\$149,422	\$176,621	\$258,109	\$290,468
	<b>All</b>	<b>180</b>	<b>\$128,541</b>	<b>\$160,197</b>	<b>\$210,680</b>	<b>\$262,869</b>
<b>Associate Professor</b>	0-2	24	\$101,000	\$110,362	\$133,590	\$156,400
	3-5	24	\$100,786	\$113,896	\$123,616	\$156,100
	6+	34	\$100,066	\$108,000	\$119,991	\$150,178
	<b>All</b>	<b>82</b>	<b>\$100,066</b>	<b>\$108,843</b>	<b>\$125,360</b>	<b>\$153,000</b>
<b>Assistant Professor</b>	0-2	44	\$92,750	\$100,395	\$110,000	\$128,750
	3+	58	\$92,718	\$98,662	\$110,013	\$121,458
	<b>All</b>	<b>102</b>	<b>\$92,718</b>	<b>\$99,375</b>	<b>\$110,000</b>	<b>\$128,184</b>
<b>All Ranks</b>	<b>All</b>	<b>364</b>	<b>\$100,145</b>	<b>\$121,229</b>	<b>\$163,328</b>	<b>\$226,548</b>

**Non-Tenure Track (All Years)**

<b>Rank</b>	<b>N</b>	<b>1st Quartile</b>	<b>Median</b>	<b>3rd Quartile</b>	<b>90th Percentile</b>
<b>Professor</b>	7	\$74,758	\$131,700	\$171,300	\$187,450
<b>Associate Professor</b>	7	\$59,593	\$60,000	\$102,784	\$150,000
<b>Assistant Professor</b>	15	\$51,906	\$88,355	\$110,000	\$111,000
<b>Instructor</b>	95	\$52,704	\$62,000	\$76,000	\$95,824
<b>All Ranks</b>	<b>124</b>	<b>\$53,350</b>	<b>\$63,600</b>	<b>\$87,150</b>	<b>\$103,131</b>

**Table 9. 2019-2020 Academic Faculty in Biostatistics Departments  
by Tenure Status, Rank and Years in Rank, Based on 12-Month Salary**

**Tenured or Tenure Track**

<b>Rank</b>	<b>Years in Rank</b>	<b>N</b>	<b>1st Quartile</b>	<b>Median</b>	<b>3rd Quartile</b>	<b>90th Percentile</b>
<b>Professor</b>	0-3	52	\$175,553	\$190,652	\$209,326	\$213,864
	4-7	40	\$189,996	\$215,006	\$245,557	\$289,729
	8-14	56	\$195,790	\$210,836	\$267,618	\$319,754
	15+	49	\$215,110	\$251,769	\$308,891	\$344,424
	All	197	\$187,680	\$210,001	\$250,780	\$309,958
<b>Associate Professor</b>	0-2	43	\$131,000	\$144,000	\$155,328	\$162,007
	3+	70	\$139,702	\$147,986	\$159,566	\$181,010
	All	113	\$137,835	\$146,553	\$156,915	\$177,504
<b>Assistant Professor</b>	0-2	50	\$109,033	\$115,000	\$123,600	\$131,200
	3+	56	\$112,204	\$118,014	\$124,579	\$137,304
	All	108	\$111,678	\$116,067	\$124,361	\$133,250
<b>Instructor</b>	All	3	\$56,366	\$83,000	\$132,000	\$132,000
<b>All Ranks</b>	<b>All</b>	<b>421</b>	<b>\$126,721</b>	<b>\$157,590</b>	<b>\$208,328</b>	<b>\$264,204</b>

**Non-Tenure Track**

<b>Rank</b>	<b>Years in Rank</b>	<b>N</b>	<b>1st Quartile</b>	<b>Median</b>	<b>3rd Quartile</b>	<b>90th Percentile</b>
<b>Professor</b>	0-5	23	\$175,000	\$185,000	\$196,800	\$210,421
	6+	19	\$177,500	\$195,700	\$234,424	\$292,496
	All	42	\$175,000	\$187,838	\$202,859	\$234,424
<b>Associate Professor</b>	0-2	16	\$130,590	\$144,600	\$157,811	\$165,000
	3+	52	\$129,492	\$142,402	\$158,874	\$183,469
	All	68	\$129,492	\$142,735	\$158,478	\$183,469
<b>Assistant Professor</b>	0-2	19	\$91,800	\$108,000	\$117,832	\$131,040
	3+	47	\$107,639	\$117,956	\$126,066	\$141,030
	All	66	\$104,105	\$115,104	\$125,764	\$137,500
<b>Instructor</b>	All	8	\$83,575	\$92,800	\$103,974	\$118,691
<b>All Ranks</b>	<b>All</b>	<b>184</b>	<b>\$113,152</b>	<b>\$136,145</b>	<b>\$165,825</b>	<b>\$195,700</b>



**Table 10. 2019-2020 Academic Faculty in Mathematical Sciences Departments  
by Tenure Status and Rank, Based on 9-Month Salary**

**Tenured or Tenure Track**

<b>Rank</b>	<b>N</b>	<b>1st Quartile</b>	<b>Median</b>	<b>3rd Quartile</b>	<b>90th Percentile</b>
<b>Professor</b>	49	\$96,657	\$105,063,	\$118,292	\$128,427
<b>Associate Professor</b>	18	\$80,630	\$85,266	\$97,086	\$107,000
<b>Assistant Professor</b>	38	\$72,000	\$82,028	\$86,681	\$88,088
<b>Instructor/Lecturer</b>	-	-	-	-	-
<b>All Ranks</b>	<b>105</b>	<b>\$81,392</b>	<b>\$88,000</b>	<b>\$105,063</b>	<b>\$119,268</b>

**Non-Tenure Track**

<b>Rank</b>	<b>N</b>	<b>1st Quartile</b>	<b>Median</b>	<b>3rd Quartile</b>	<b>90th Percentile</b>
<b>Professor</b>	-	-	-	-	-
<b>Associate Professor</b>	-	-	-	-	-
<b>Assistant Professor</b>	3	\$57,407	\$60,191	\$66,465	\$66,465
<b>Instructor/Lecturer</b>	17	\$53,000	\$57,000	\$64,743	\$76,036
<b>All Ranks</b>	<b>20</b>	<b>\$53,284</b>	<b>\$57,551</b>	<b>\$65,604</b>	<b>\$72,888</b>