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**

Rank	Years in Rank	N	1st Quartile	Median	3rd Quartile	90th Percentile
Professor	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
Associate Professor	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
Assistant Professor	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
Instructor	All	95	$52,704	$62,000	$76,000	$95,824
All Ranks	**All**	**488**	**$84,315**	**$108,507**	**$150,000**	**$208,138**

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

Rank	Years in Rank	N	1st Quartile	Median	3rd Quartile	90th Percentile
Professor	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
Associate Professor	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
Assistant Professor	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
Instructor	All	11	$81,600	$90,459	$109,344	$118,691
All Ranks	**All**	**605**	**$122,673**	**$149,104**	**$196,485**	**$244,953**

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

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

**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

Rank	Years in Rank	Gender	N	1st Quartile	Median	3rd Quartile	90th Percentile
Professor	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
Associate Professor	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
Assistant Professor	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
Instructor	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

Rank	Years in Rank	N	1st Quartile	Median	3rd Quartile	90th Percentile
Professor	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
	All	180	$128,541	$160,197	$210,680	$262,869
Associate Professor	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
	All	82	$100,066	$108,843	$125,360	$153,000
Assistant Professor	0-2	44	$92,750	$100,395	$110,000	$128,750
	3+	58	$92,718	$98,662	$110,013	$121,458
	All	102	$92,718	$99,375	$110,000	$128,184
All Ranks	All	364	$100,145	$121,229	$163,328	$226,548

Non-Tenure Track (All Years)

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

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

Rank	Years in Rank	N	1st Quartile	Median	3rd Quartile	90th Percentile
Professor	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
Associate Professor	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
Assistant Professor	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
Instructor	All	3	$56,366	$83,000	$132,000	$132,000
All Ranks	**All**	**421**	**$126,721**	**$157,590**	**$208,328**	**$264,204**

Non-Tenure Track

Rank	Years in Rank	N	1st Quartile	Median	3rd Quartile	90th Percentile
Professor	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
Associate Professor	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
Assistant Professor	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
Instructor	All	8	$83,575	$92,800	$103,974	$118,691
All Ranks	**All**	**184**	**$113,152**	**$136,145**	**$165,825**	**$195,700**

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

Tenured or Tenure Track

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

Non-Tenure Track

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