

MASTER OF SCIENCE IN ANALYTICS

2024 EMPLOYMENT REPORT

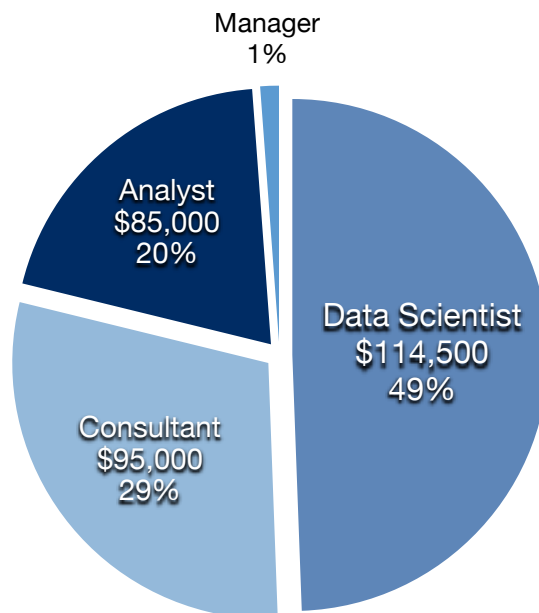
Number of graduates (97% completion rate):	95
Number of graduates seeking new employment:	94
Candidates employed at 180 days post graduation:	86
Placement rate:	91%
Average base salary:	\$102,500
Median base salary:	\$105,000
Number of employers interviewing:	174
Number of employers hiring one or more candidates:	47
Total number of reported job offers:	110
Job placements facilitated by the Institute:	72%
Median net increase in earnings:	60%
Median ROI payback period (in months):	27
Job placements based in North Carolina:	60%
Job placements based in U.S.:	99%
Candidates reporting salary data:	99%

Placement results for Class of '24 reported 180-days post graduation, November 1, 2024.

SELECTED POSITIONS FILLED

Analyst, Business Analytics	Python Programmer/Analyst
Analyst, People Analytics	Quantitative Analytics Associate
Assistant Manager, Strategy & Ops	Quantitative Associate Strategic Modeling and Analytics
Associate	Regional Director of Decision Support and Predictive Analytics
Associate, Data Analytics	Research Data Scientist
Associate Data Scientist	Research Scientist
Business Analyst	Senior Analytics Consultant
Consultant	Senior Associate
Data Analyst	Senior Associate Data Scientist
Data and Analytics Specialist	Senior Business Analyst
Data Insights Analyst	Senior Consultant
Data Science Consultant	Senior Data Scientist
Data Scientist	Senior Model Validation Analyst
Decision Scientist	Senior Risk Analytics Consultant
Fire Data & Strategic Analyst	Senior Software Engineer, Cybersecurity
Linehaul Analytics	Staff Biostatistician
Machine Learning and AI Learning Consultant	Student Success Data Support Analyst
Marketing Analyst	VP, Client Quantitative Analyst
Operations Analyst	
Product Analyst	

MAJOR TYPES OF POSITIONS AND MEDIAN BASE SALARIES



COMPENSATION BY EXPERIENCE LEVEL

	ANNUAL BASE SALARY				SIGNING BONUS
	Total	Prior Work Experience			
		None	1-2 Years	3+ Years	
Mean	\$102,500	\$96,100	\$105,600	\$111,800	\$7,257
Maximum	\$150,000	\$122,000	\$122,000	\$150,000	\$16,079
75th Percentile	\$118,500	\$110,000	\$122,000	\$121,000	\$10,000
Median	\$106,096	\$95,000	\$110,000	\$115,000	\$5,300
25th Percentile	\$90,000	\$84,500	\$95,000	\$105,000	\$5,000
Minimum	\$60,000	\$60,000	\$80,000	\$80,000	\$2,000
N	85	40	25	20	47
% Reporting	98%	47%	29%	24%	55%

Notes: Data with respect to salaries and bonuses are self-reported by graduates (without anonymity) and whenever possible verified by the employer in cases where placement is arranged by the Institute (i.e., most candidates). All job placements are full-time paid positions. Data are made public here to guide prospective students and employers. Annual base salary figures do not include signing bonuses, annual bonuses, equity or options, relocation allowances, or other forms of one-time compensation guaranteed upon signing. One job is a contract position. One job is based outside the U.S. (Compensation data exclude jobs paid in a currency other than U.S. dollars.) The MSA is a STEM-qualified degree. International graduates are eligible for Optional Practical Training (OPT).

DISCLAIMER: Over its 17-year history, the Institute has placed over 98% of its graduates in full-time professional positions within 90-days of graduation. But it does not under any circumstance offer a guarantee of employment upon completion of the degree.

EMPLOYERS

(51 made offers; 47 succeeded in hiring one or more candidates)

Academic Programs International	Humana
Align Technology	LatentView*
Ally Financial	LendingTree*
Ankura*	LexisNexis
Appalachian State University	Little Caesars Enterprises
Bank of America	Metric5
BlueFoot AI	McDowell Technical CC
Capgemini	NextEra Energy
CenterWell Humana	Nutanix
Charles Schwab	OneMain Financial
City of Raleigh (Fire Department)	Red Ventures
Civic Federal Credit Union	RTI International*
Cymantix	SAS
D.C. United Football Club	U.S. Government (3 agencies)*
Deutsche Bank	UBS
Durham VA Medical Center*	University of Wisconsin Madison
Eastwood Homes	Verisk Analytics
Elevate*	Verizon*
EY*	Volvo Group
Fifth Third Bank*	Waste Management (WM)
First Citizens Bank	Wells Fargo*
Financial Risk Group (FRG)	William & Mary
GEICO	XPO
Guidehouse*	

Bold = employers that succeeded in hiring one or more candidates.

* = employers that hired more than one candidate.

Map of the United States showing the distribution of the number of species per state. The size of the orange circles represents the number of species, with a legend at the bottom left showing a scale from 1 to 29. The largest circles are in the Southeast (Alabama, Georgia, Florida), and smaller circles are scattered across the West, Midwest, and Northeast.

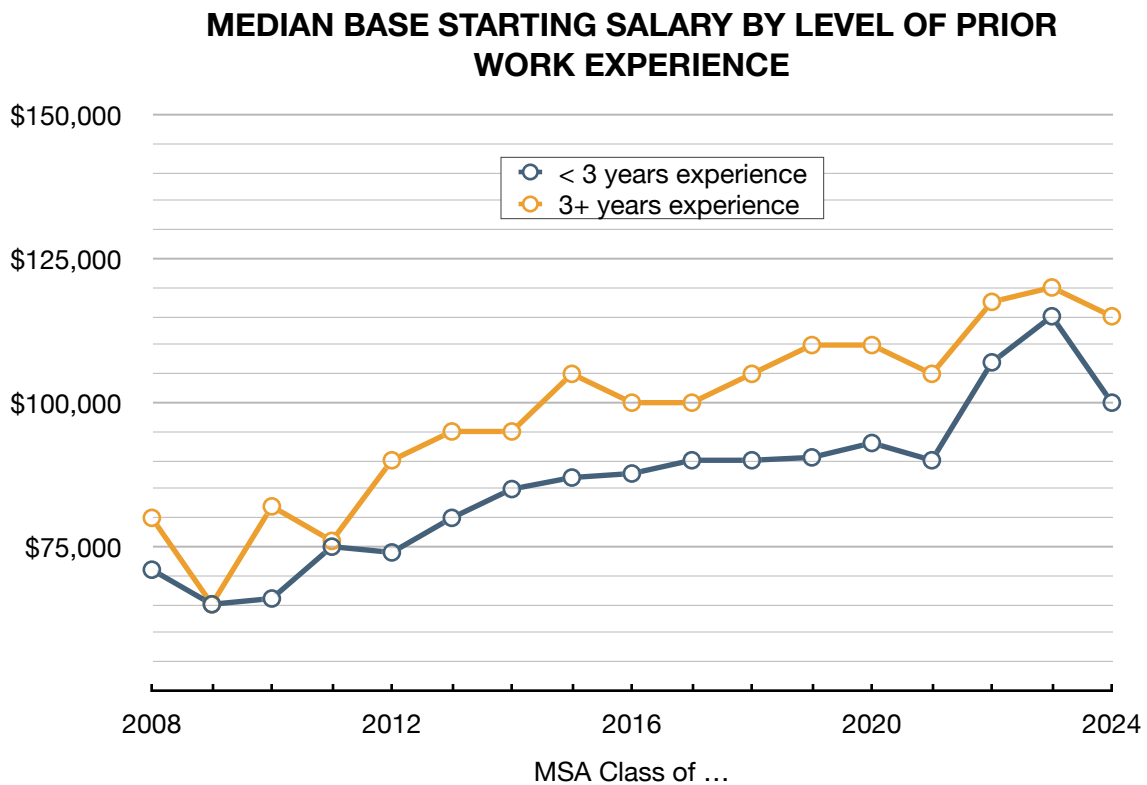
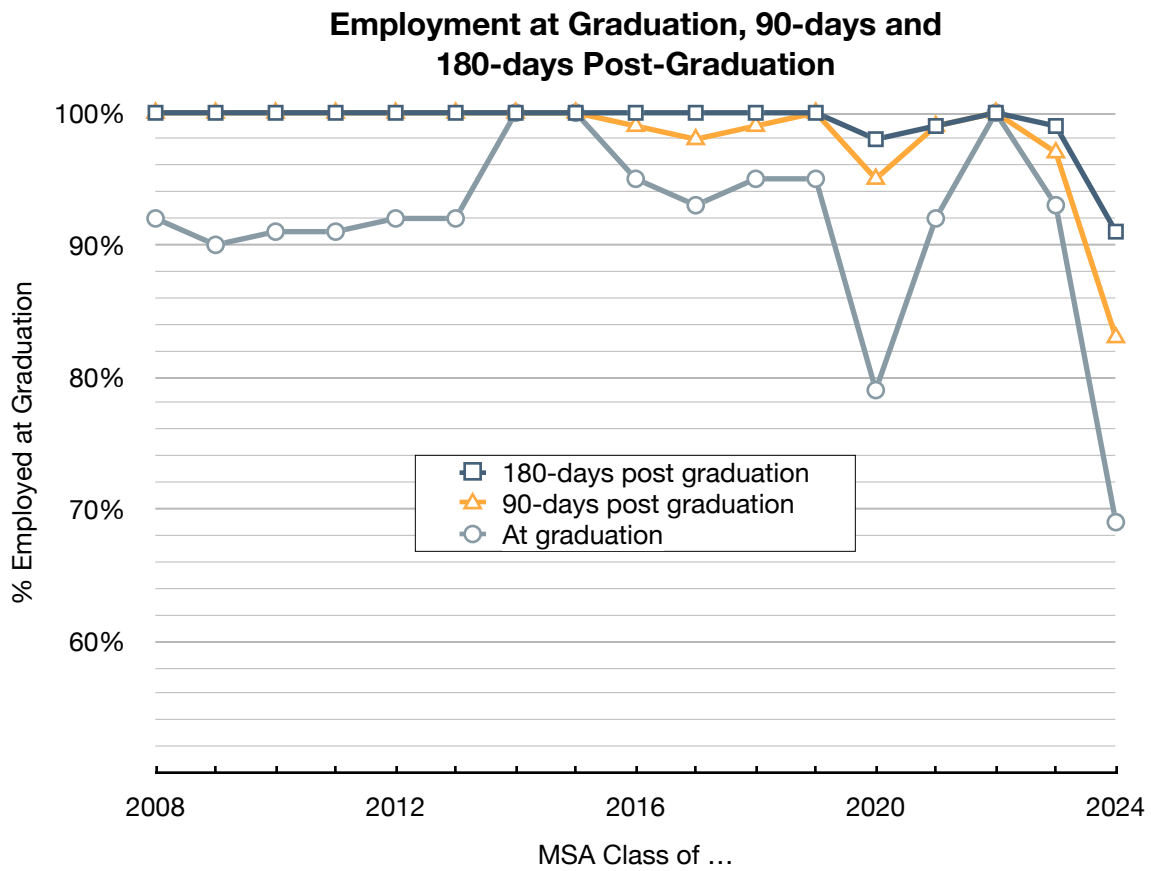


COMPENSATION BY MAJOR POSITION CATEGORIES

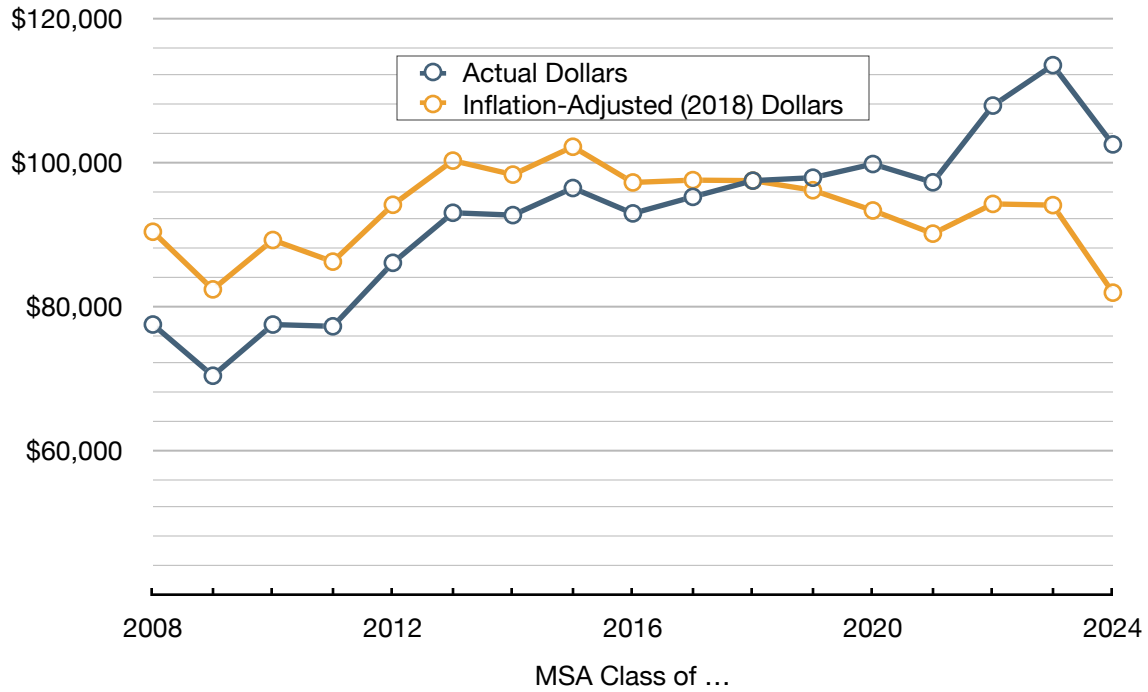
	ANNUAL BASE SALARY				
	All	Data Scientist	Analyst	Consultant	Other
Mean	\$102,500	\$110,972	\$87,855	\$103,059	*
Maximum	\$150,000	\$150,000	\$120,000	\$125,000	*
75th Percentile	\$118,500	\$122,000	\$95,000	\$115,000	*
Median	\$106,096	\$114,000	\$86,000	\$95,000	*
25th Percentile	\$90,000	\$105,548	\$80,000	\$90,000	*
Minimum	\$60,000	\$60,000	\$60,000	\$80,000	*
N	85	42	25	17	1
% of Total	100%	49%	29%	20%	1%

COMPENSATION BY AGE AND GENDER

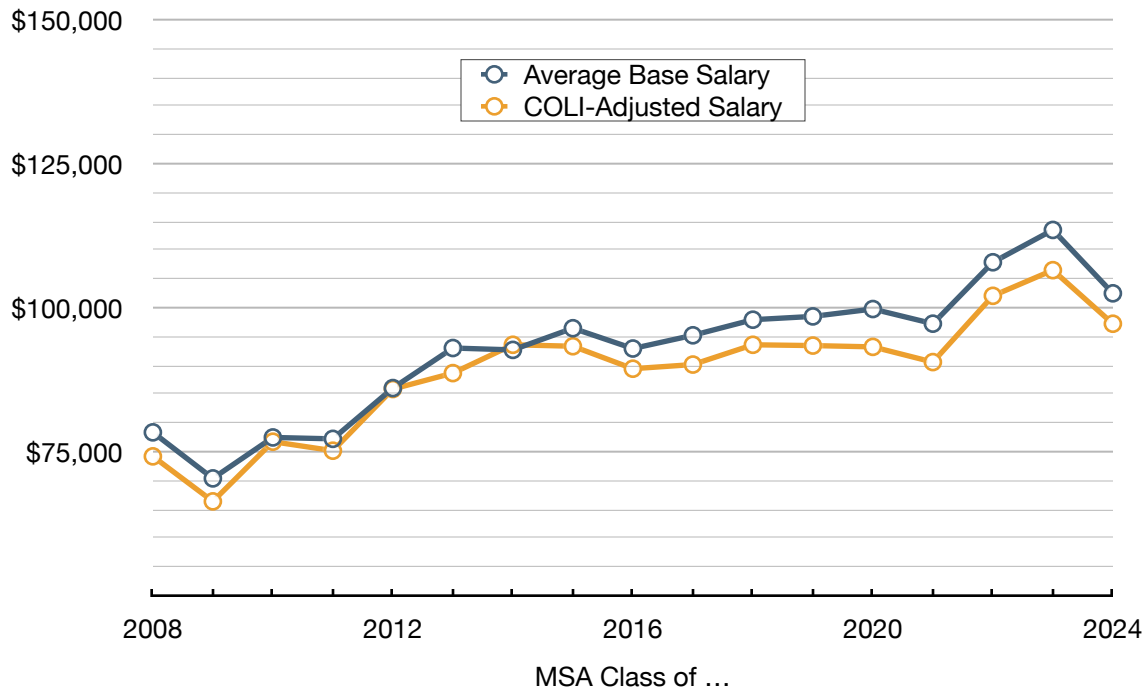
	ANNUAL BASE SALARY					
	All	Age Brackets			Gender Identity	
		20–24	25–29	30+	Men	Women
Mean	\$102,500	\$98,200	\$105,100	\$119,000	\$104,900	\$99,500
Maximum	\$150,000	\$122,000	\$125,000	\$150,000	\$125,000	\$150,000
75th Percentile	\$118,500	\$110,000	\$120,000	\$123,500	\$121,500	\$113,000
Median	\$106,096	\$95,000	\$110,000	\$118,000	\$110,000	\$100,000
25th Percentile	\$90,000	\$87,500	\$92,500	\$114,500	\$95,000	\$88,500
Minimum	\$60,000	\$60,000	\$80,000	\$95,000	\$60,000	\$60,000
N	85	57	17	11	47	38
% of Total	100%	67%	20%	13%	55%	45%



INFLATION-ADJUSTED AVERAGE BASE SALARY BY COHORT YEAR



COST OF LIVING INDEX (COLI) ADJUSTED AVERAGE BASE SALARY BY LOCATION OF EMPLOYMENT



STUDENT RETURN ON INVESTMENT

	NC Resident	Non-Resident
Number of Respondents	30	7
Pre-MSA Salary Median	\$70,000	\$78,000
(+) Tuition & Fees	\$29,275	\$55,650
(-) Signing Bonus	\$5,300	\$5,300
Total Investment	\$93,975	\$128,350
Post MSA Salary Median	\$114,500	\$120,000
(-) Pre-MSA Salary	\$70,000	\$78,000
Net Salary Increase	\$44,500	\$42,000
Payback Period (months)	25	37
Net Increase in Earnings	64%	54%
Based on graduates with full-time domestic employment prior to program entry. Graduates with prior employment outside of the U.S. (with earnings in other currencies) are not included.		

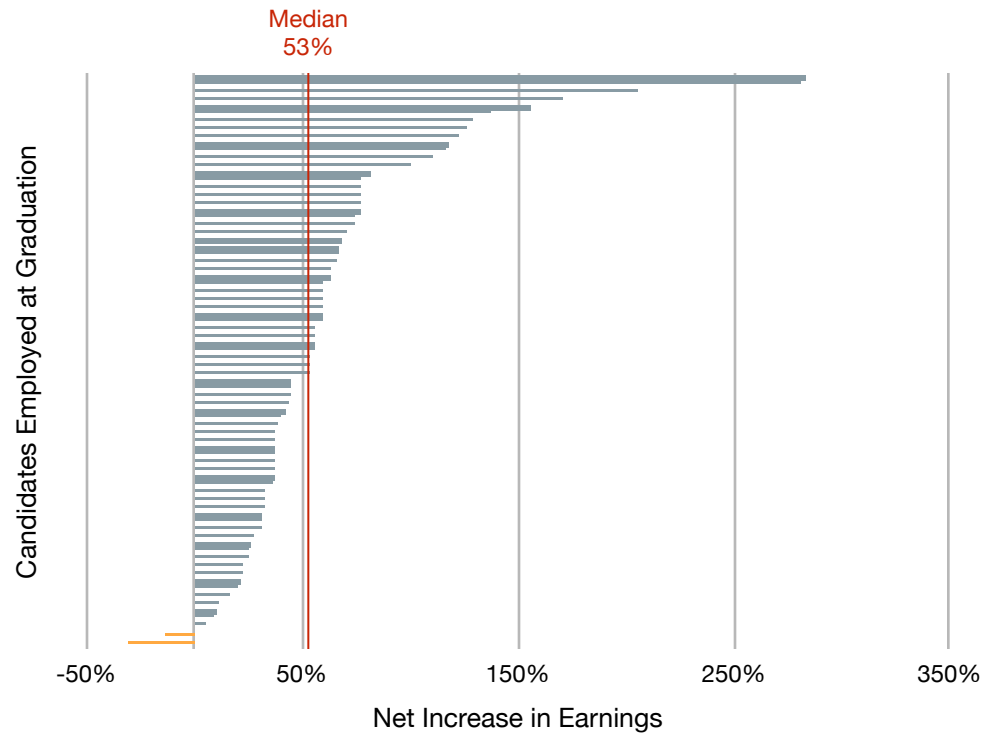
PAYBACK PERIOD CALCULATION

$$\text{Payback Period (in months)} = \frac{(\text{Pre-MSA Salary} + \text{Tuition}) - \text{Signing Bonus}}{\text{Post-MSA Salary} - \text{Pre-MSA Salary}} \times 12$$

Notes: Respondents provided information about their pre- and post-MSA annual base salaries, signing bonuses, and residency status (which determines tuition payments). The ROI payback period is calculated for each candidate employed by graduation, based on their individual circumstances (residency, tuition, pre- and post-salaries, and signing bonuses)..

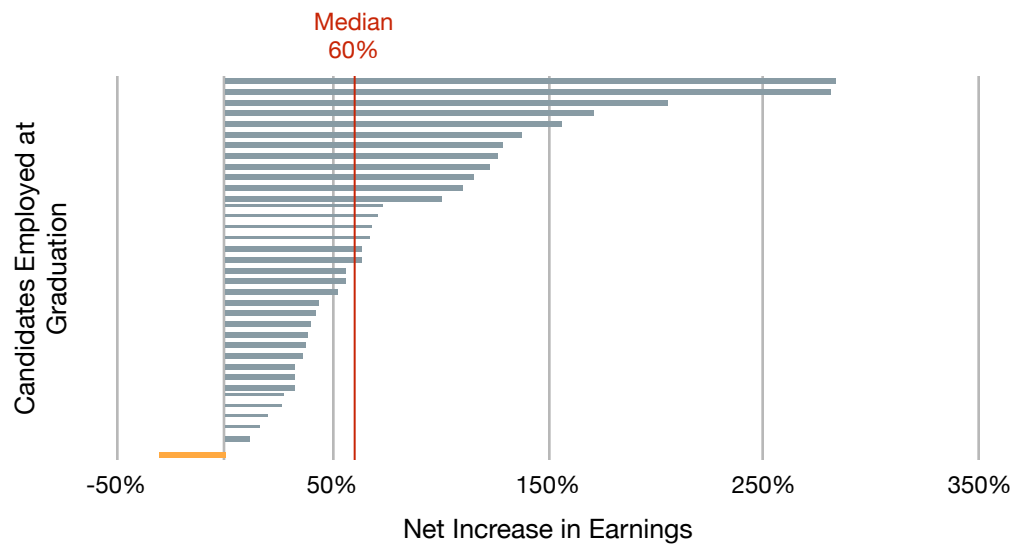
Students are assumed to forgo one-year of earning, even though the MSA program is 10-months in duration. The payback calculation does not take into consideration interest incurred by students who borrow to finance their education.

ESTIMATED NET INCREASE IN EARNINGS FOR ALL CANDIDATES, RANK ORDERED

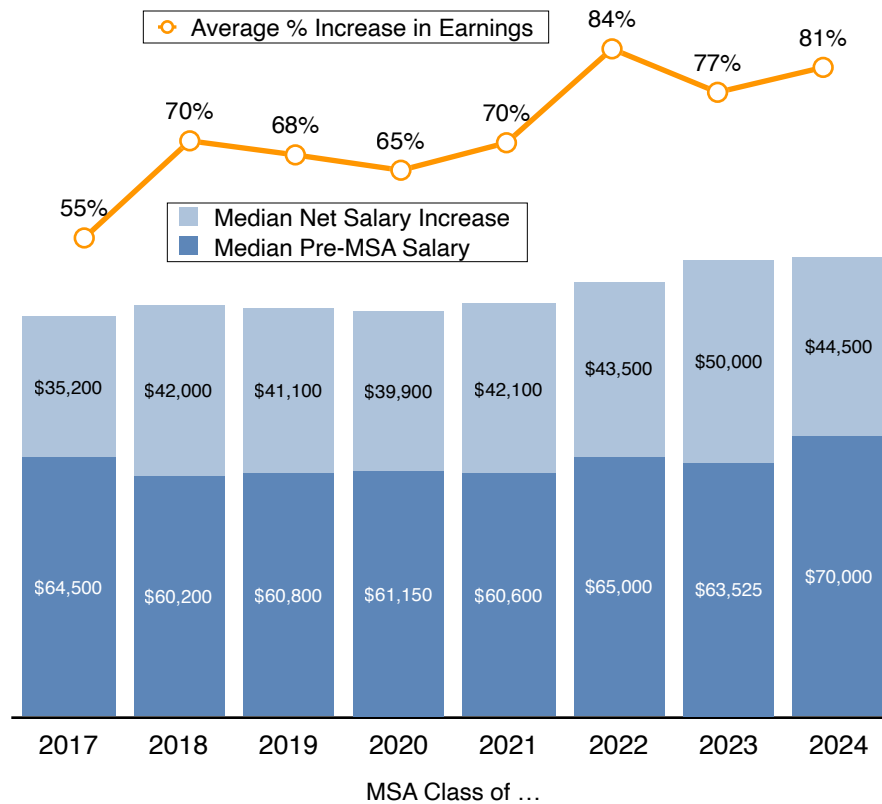


Note: The net increase in earnings is calculated for candidates with no prior work experience using inputted data for the median earnings reported by university graduates in May 2023 (\$68,750). Source: Institutional Strategy and Analysis, May 2023 Undergraduate Future Plans Survey: All Respondents Overview, NC State University.

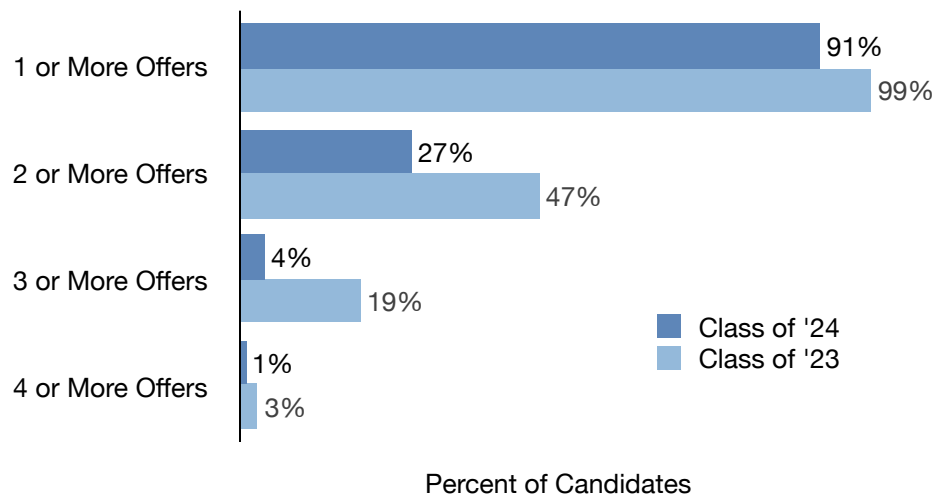
ACTUAL NET INCREASE IN EARNINGS FOR CANDIDATES WITH PRIOR EMPLOYMENT, RANK ORDERED



NET INCREASE IN EARNINGS FOR PREVIOUSLY EMPLOYED CANDIDATES (domestic employment only)



NUMBER OF JOB OFFERS RECEIVED BY GRADUATION



COMPENSATION BY INDUSTRY SECTOR

	ANNUAL BASE SALARY				
	All Sectors	Consulting	Financial	Technology	Other
Mean	\$102,500	\$101,950	\$110,500	\$103,200	\$91,300
Maximum	\$150,000	\$125,000	\$122,000	\$120,000	\$150,000
75th Percentile	\$118,500	\$115,000	\$122,000	\$114,000	\$102,000
Median	\$106,096	\$95,000	\$112,500	\$102,500	\$93,000
25th Percentile	\$90,000	\$91,250	\$110,000	\$98,125	\$75,500
Minimum	\$60,000	\$65,000	\$80,000	\$80,000	\$60,000
N	85	18	34	8	24
% of Total	100%	21%	40%	9%	28%

COMPENSATION BY GEOGRAPHIC REGION

	ANNUAL BASE SALARY				
	North Carolina	U.S. Census Regions Outside North Carolina			
		South	Northeast	Midwest	West
Mean	\$104,300	\$96,300	\$102,600	\$108,350	*
Maximum	\$125,000	\$150,000	\$114,000	\$122,000	*
75th Percentile	\$120,500	\$106,096	\$114,000	\$122,000	*
Median	\$110,000	\$95,000	\$110,000	\$122,000	*
25th Percentile	\$92,061	\$90,000	\$100,000	\$91,500	*
Minimum	\$60,000	\$60,000	\$75,000	\$87,500	*
N	48	23	5	7	1
% of Total	53%	27%	6%	8%	1%

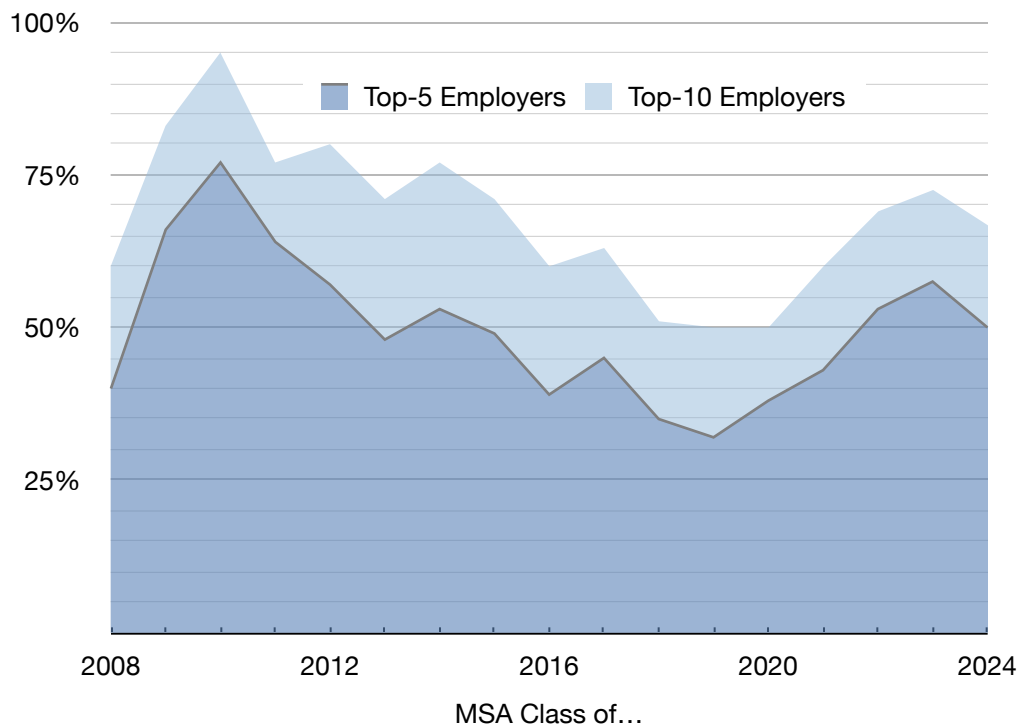
Geographic distribution is based on the location of the employer office, which may be different from the location of the candidate due to the increasing commonality of remote work.

EMPLOYMENT BY RESIDENCY STATUS PRIOR TO ADMISSION

	Percent of Candidates Employed		Subtotal
	Inside North Carolina	Outside North Carolina	
Non-Resident	17%	21%	38%
NC Resident	44%	19%	62%
Subtotal	60%	40%	100%

Graduates with remote work arrangements are classified by their state of residence, not the employer location.

PLACEMENT CONCENTRATION AMONG THE TOP-5 AND TOP-10 EMPLOYERS



RECRUITING TIMETABLE	
New cohort arrives:	June
Admissions Report with class demographics published:	July 1
Student roster available on Institute web site:	July 15
Employer information sessions begin in:	September 15
Student Profiles published:	October 1
Student Resume Book sent to employers:	December 1
Job interviews begin in:	January
Student job decision date:	March 1
Graduation in the first week of:	May
Employment Report published:	May 15
Candidates typically begin employment by the first week of:	June
Open job positions can be circulated to MSA alumni:	Upon receipt
MSA recruitment is managed entirely by the Institute as a service provided free of charge as a courtesy to employers.	

DISCLAIMER

The Institute has a proven track record for placing graduates in the analytics profession, but it does not under any circumstance offer a guarantee of employment upon degree completion.

DIRECTOR'S CERTIFICATION

The report of employment outcomes referred to above present fairly, in all material respects, the employment of the Institute's students at graduation as of May 28, 2024 in conformity with principles generally accepted among universities in the United States of America.

November 1, 2024

Date



Dr. Michael Rappa

Source URL: <http://analytics.ncsu.edu/reports/employment/MSA2024-1.pdf>

NC STATE UNIVERSITY