

## MASTER OF SCIENCE IN ANALYTICS

# 2024 EMPLOYMENT REPORT

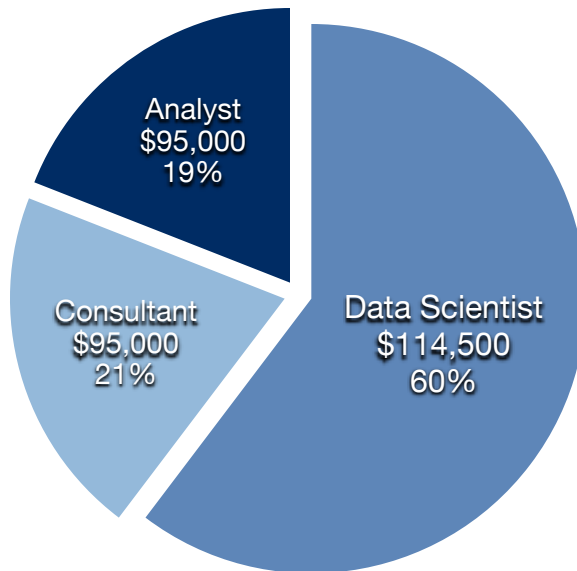
Number of graduates (97% completion rate):	95
Number of graduates seeking new employment:	94
Candidates employed at graduation:	64
Placement rate at graduation:	68%
Average base salary:	\$105,600
Median base salary:	\$110,000
Number of employers interviewing:	124
Number of employers hiring one or more candidates:	29
Total number of reported job offers:	91
Job placements facilitated by the Institute:	82%
Median net increase in earnings:	60%
Median ROI payback period (in months):	28
Job placements based in North Carolina:	54%
Job placements based in U.S.:	100%
Candidates reporting salary data:	98%

Placement results for Class of '24 reported upon graduation, May 28, 2024.

### SELECTED POSITIONS FILLED

Associate Data Scientist	Research Data Scientist
Associate, Data Analytics	Research Scientist
Biostatistician	Senior Associate
Business Analyst	Senior Associate Data Scientist
Consultant	Senior Business Analyst
Data Analyst	Senior Business Analyst
Data Science Consultant	Senior Consultant
Data Scientist	Senior Consultant, Data and Analytics
Machine Learning and AI Consultant	Senior Data Scientist
Quantitative Associate Strategic Modeling and Analytics	Senior Model Validation 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	\$105,626	\$101,689	\$108,526	\$110,125	\$7,484
Maximum	\$125,000	\$122,000	\$122,000	\$125,000	\$16,079
75th Percentile	\$121,000	\$110,000	\$122,000	\$121,000	\$10,000
Median	\$110,000	\$105,000	\$115,000	\$115,000	\$5,300
25th Percentile	\$95,000	\$91,250	\$95,000	\$103,500	\$5,000
Minimum	\$60,000	\$60,000	\$85,000	\$80,000	\$2,000
N	63	30	19	14	44
% Reporting	98%	48%	30%	22%	70%

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 contingent on passing security clearance. The MSA is a STEM-qualified degree. International graduates are eligible for Optional Practical Training (OPT). Commencement is typically held on the first weekend in May, prior to the university's official graduation date. Employment results are reported each year on or about May 15 for consistency.

**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

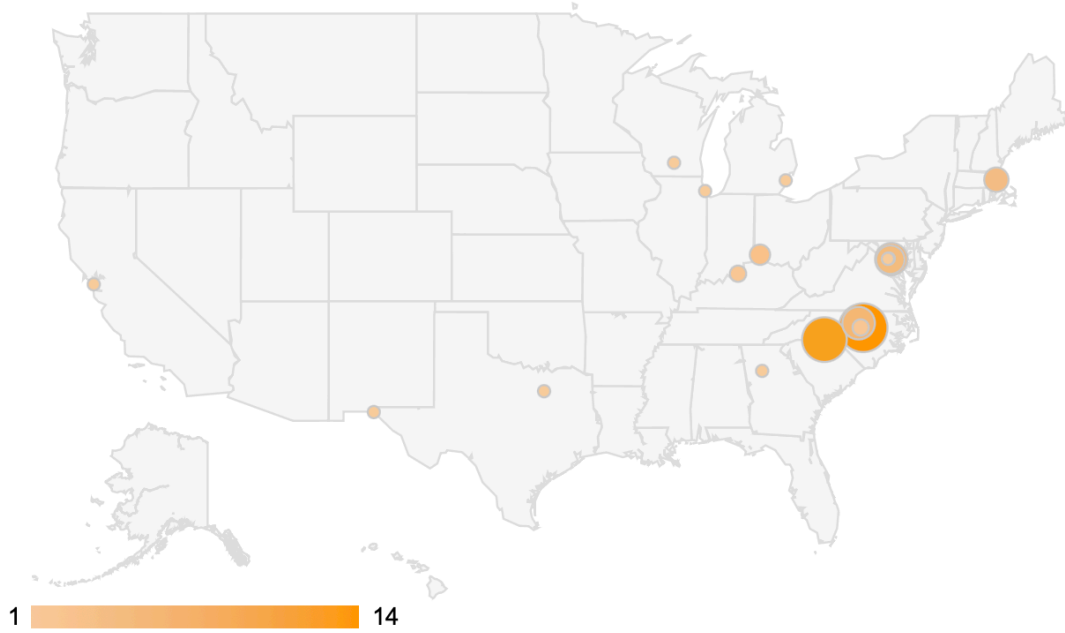
(n = 35; with 29 employers succeeding in hiring one or more candidates)

<b>Academic Programs International</b>	<b>Humana</b>
<b>Ally Financial</b>	<b>LatentView*</b>
<b>Ankura*</b>	<b>LendingTree*</b>
Bank of America	<b>Little Caesars Enterprises</b>
<b>CenterWell Humana</b>	<b>Local Government Federal Credit Union / Civic Federal Credit Union</b>
Charles Schwab	<b>Metric5</b>
<b>Cymantix</b>	<b>Nutanix</b>
<b>D.C. United Football Club</b>	<b>One Main Financial</b>
Deutsche Bank	<b>RTI International*</b>
<b>Durham VA Medical Center*</b>	<b>SAS</b>
Eastwood Homes	<b>U.S. Government*</b>
<b>Elevate*</b>	<b>University of Wisconsin Madison</b>
<b>EY*</b>	<b>Verisk Analytics</b>
<b>Fifth Third Bank*</b>	<b>Verizon*</b>
<b>First Citizens Bank</b>	<b>Wells Fargo*</b>
<b>Financial Risk Group (FRG)</b>	<b>XPO</b>
GEICO	
<b>Guidehouse*</b>	

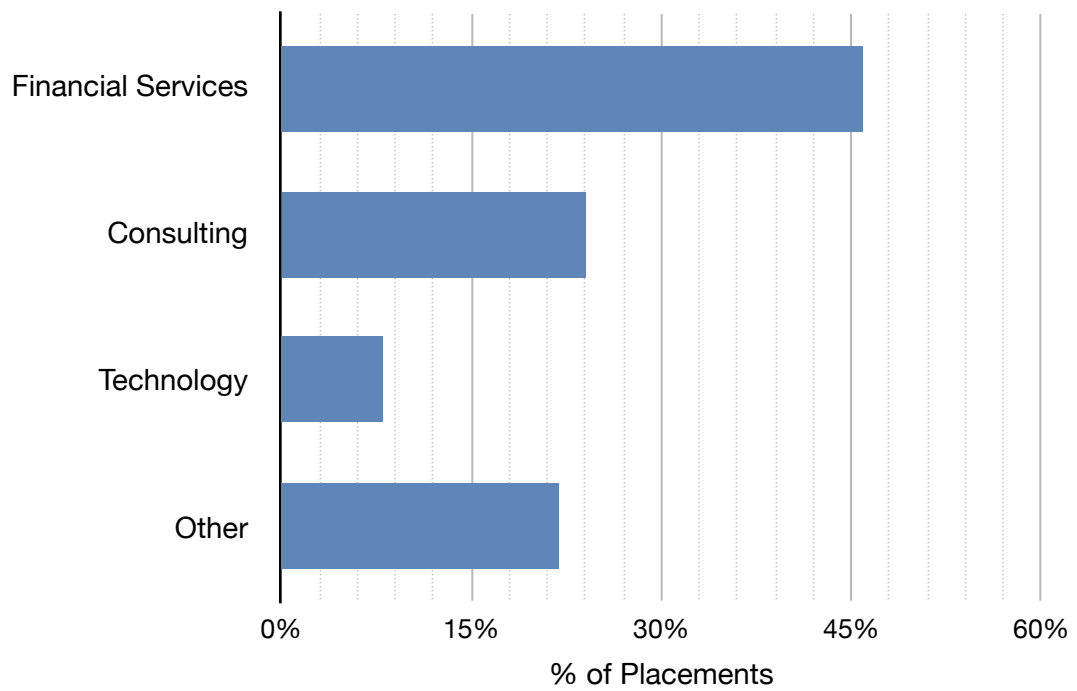
**Bold** = employers that succeeded in hiring one or more candidates.

\* = employers that hired more than one candidate.

## EMPLOYMENT BY GEOGRAPHIC LOCATION



## DISTRIBUTION OF EMPLOYMENT BY INDUSTRY SECTOR

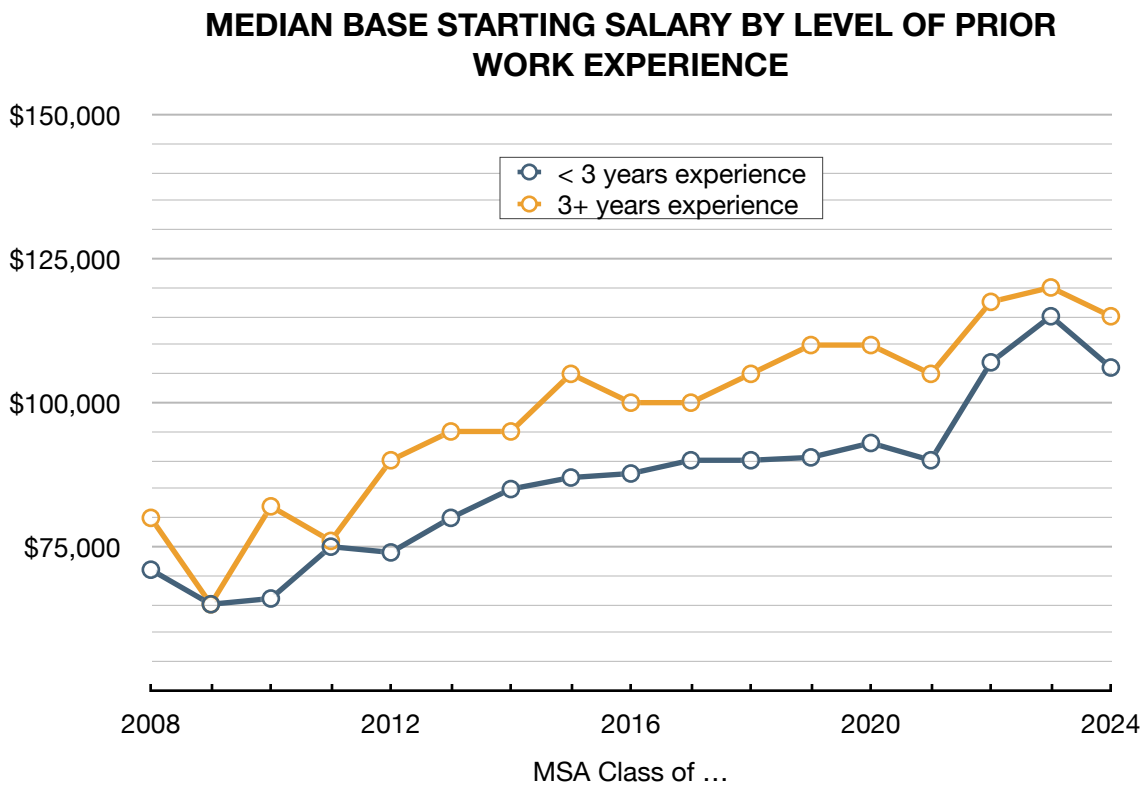
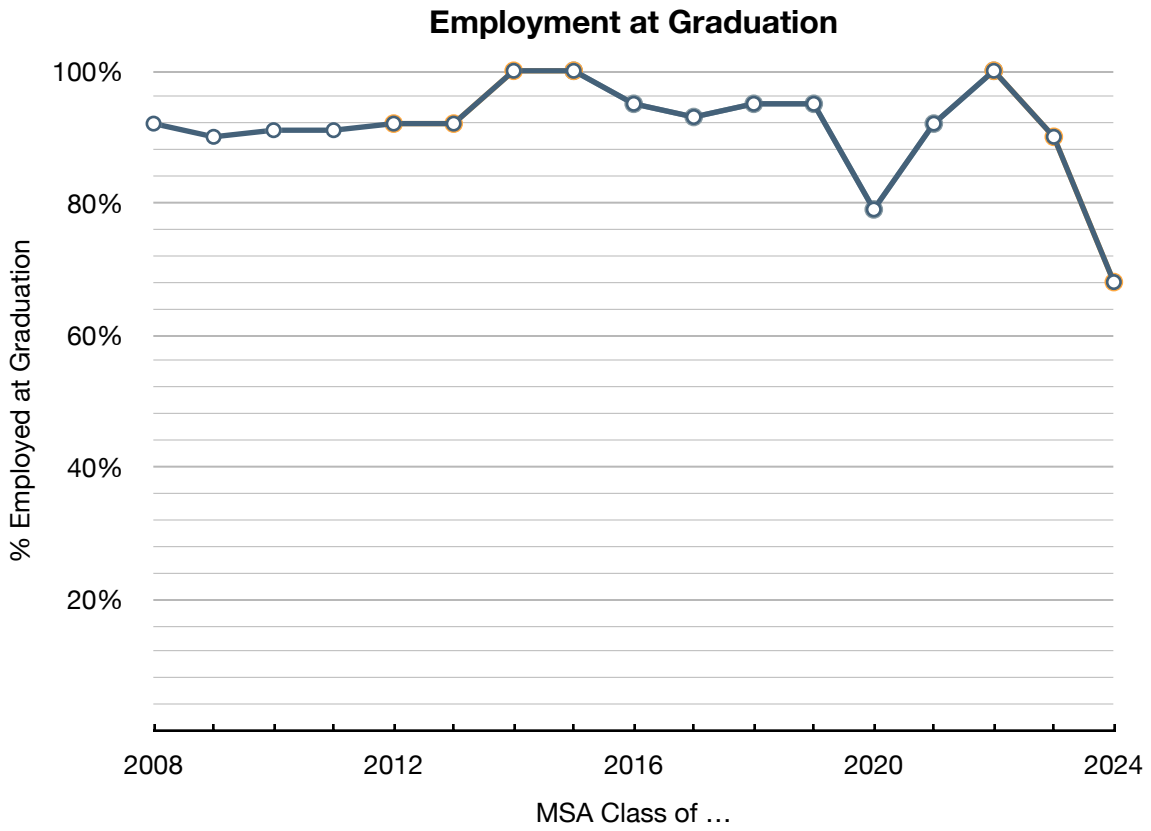


## COMPENSATION BY MAJOR POSITION CATEGORIES

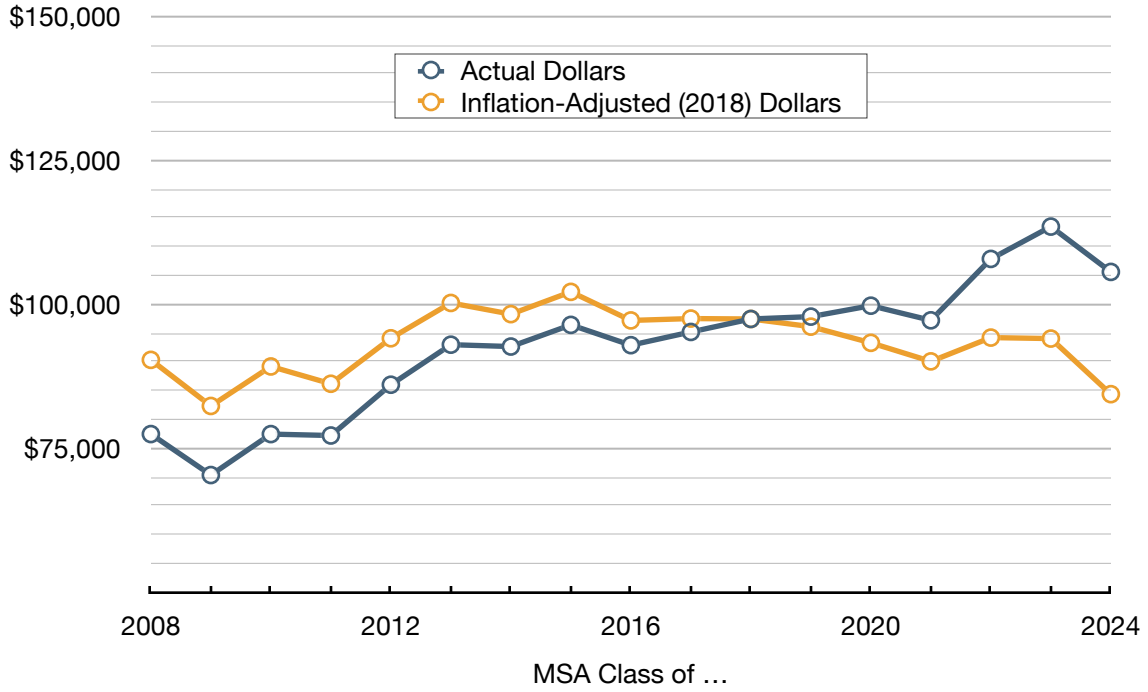
	ANNUAL BASE SALARY				
	All	Data Scientist	Analyst	Consultant	Other
Mean	\$105,626	\$110,485	\$95,333	\$100,923	*
Maximum	\$125,000	\$125,000	\$120,000	\$125,000	*
75th Percentile	\$121,000	\$122,000	\$102,500	\$115,000	*
Median	\$110,000	\$114,500	\$95,000	\$95,000	*
25th Percentile	\$95,000	\$105,548	\$84,500	\$90,000	*
Minimum	\$60,000	\$60,000	\$75,000	\$80,000	*
N	63	38	12	13	*
% of Total	100%	60%	19%	21%	0%

## COMPENSATION BY AGE AND GENDER

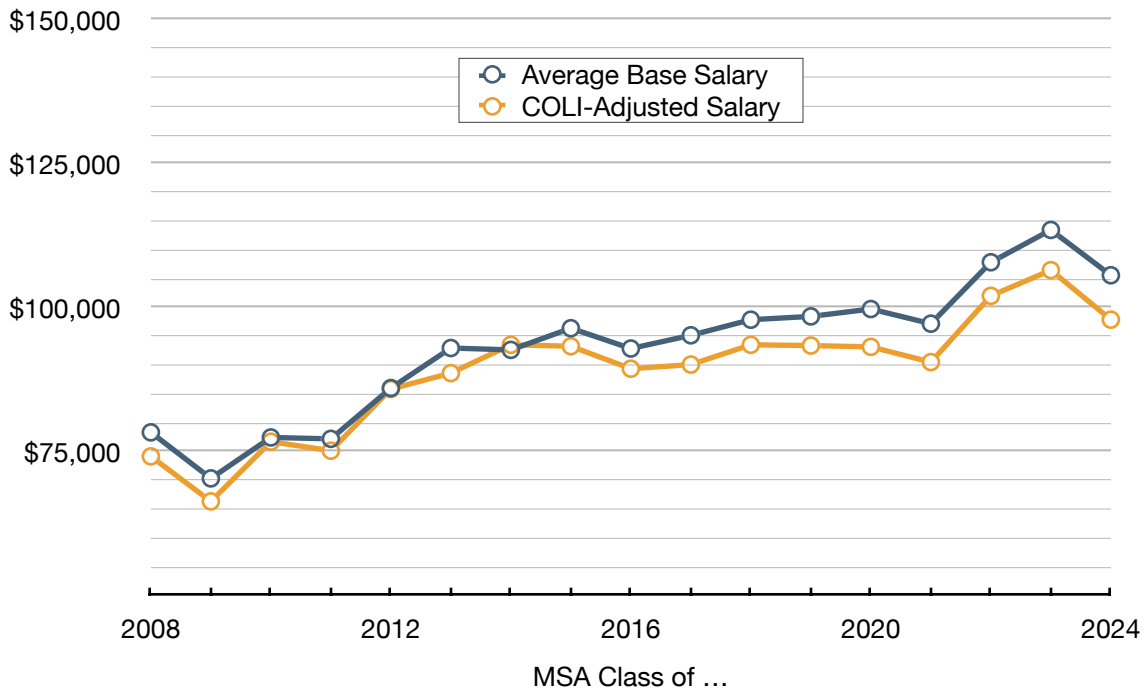
	ANNUAL BASE SALARY					
	All	Age Brackets			Gender Identity	
		20–24	25–29	30+	Men	Women
Mean	\$105,626	\$103,129	\$105,308	\$119,250	\$107,584	\$103,015
Maximum	\$125,000	\$122,000	\$125,000	\$125,000	\$125,000	\$125,000
75th Percentile	\$121,000	\$114,750	\$120,000	\$122,750	\$122,000	\$114,500
Median	\$110,000	\$105,000	\$115,000	\$119,000	\$114,500	\$105,000
25th Percentile	\$95,000	\$95,000	\$88,000	\$115,000	\$95,000	\$92,500
Minimum	\$60,000	\$60,000	\$80,000	\$114,000	\$60,000	\$75,708
N	63	42	13	8	36	27
% of Total	100%	67%	21%	13%	57%	43%



### 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	23	6
Pre-MSA Salary Median	\$66,000	\$69,000
(+) Tuition & Fees	\$29,275	\$55,650
(-) Signing Bonus	\$5,300	\$5,300
Total Investment	\$89,975	\$119,350
Post MSA Salary Median	\$115,000	\$121,000
(-) Pre-MSA Salary	\$66,000	\$69,000
Net Salary Increase	\$49,000	\$52,000
Payback Period (months)	22	28
Net Increase in Earnings	74%	75%

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.

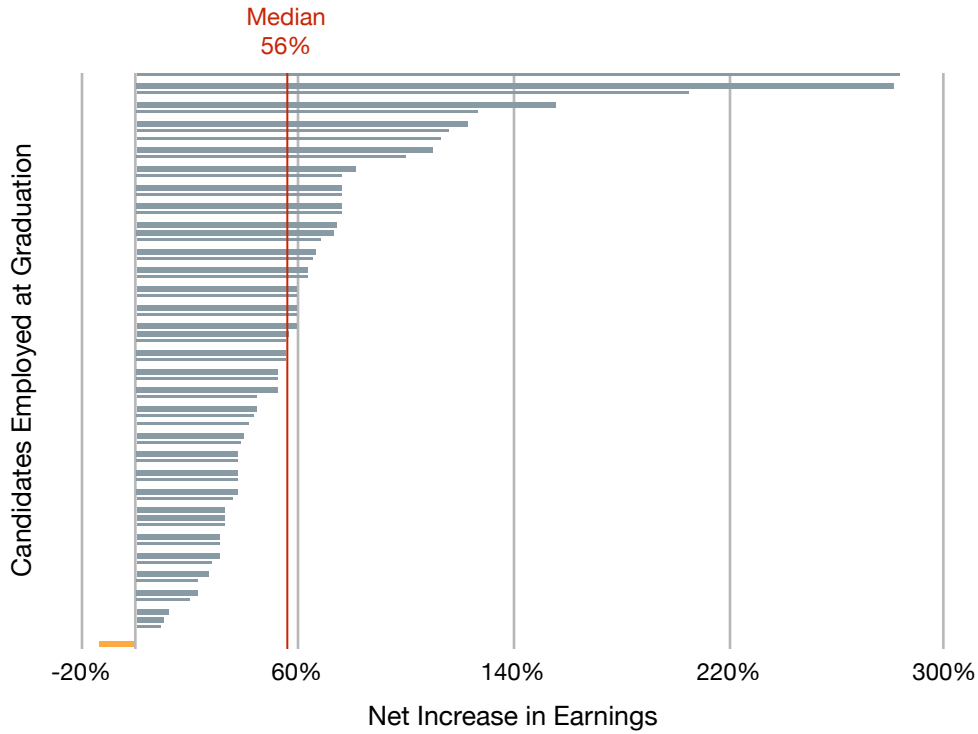
## PAYBACK PERIOD CALCULATION

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

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)..

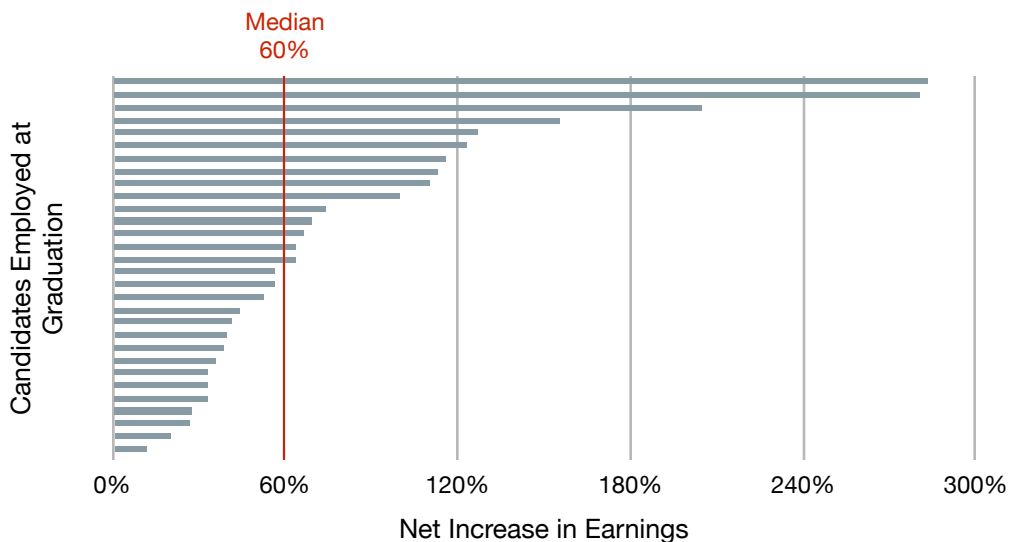
Students are assumed to forgo one-year of earning, even though the MSA program is 10-months in duration. The payback calculation does not take into consideration interest incurred by students who borrow to finance their education.

## ESTIMATED NET INCREASE IN EARNINGS FOR ALL CANDIDATES, RANK ORDERED



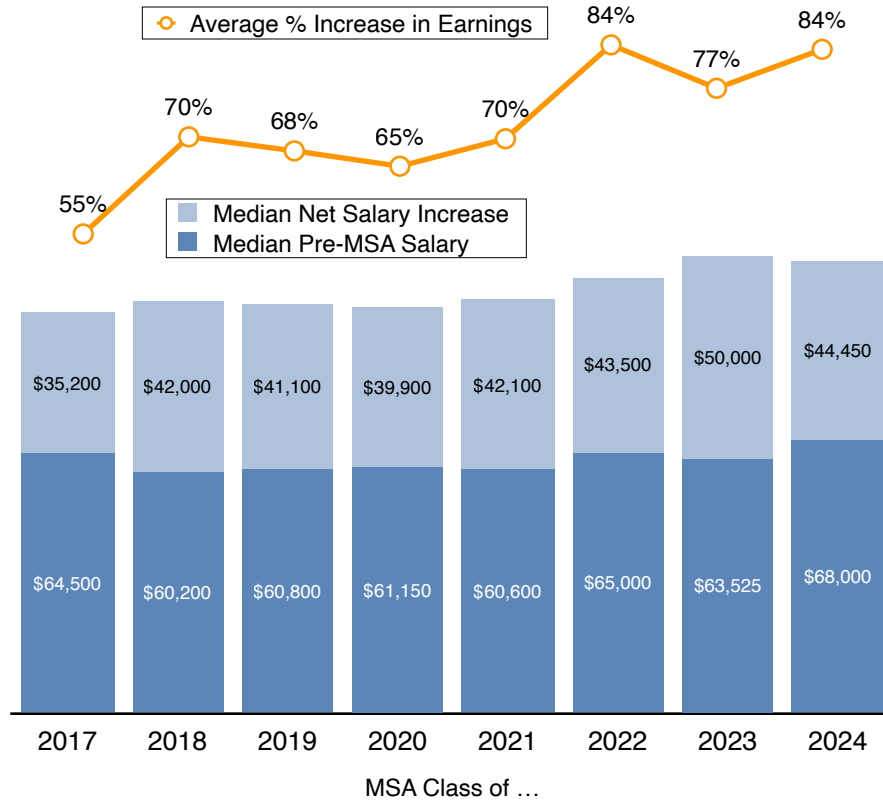
Note: The net increase in earnings is calculated for candidates with no prior work experience using inputted data for the median earnings reported by university graduates in May 2023 (\$68,750). Source: Institutional Strategy and Analysis, May 2023 Undergraduate Future Plans Survey: All Respondents Overview,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

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

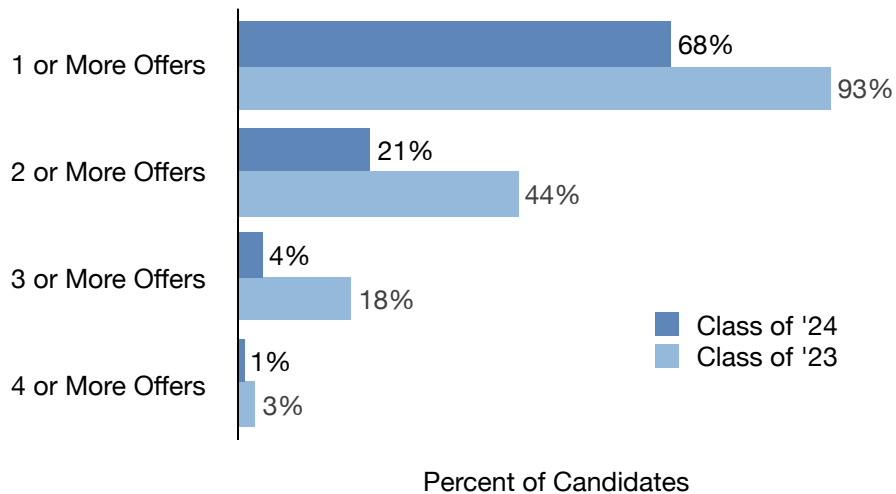


## NET INCREASE IN EARNINGS FOR PREVIOUSLY EMPLOYED CANDIDATES

(domestic employment only)



## NUMBER OF JOB OFFERS RECEIVED BY GRADUATION



## COMPENSATION BY INDUSTRY SECTOR

	ANNUAL BASE SALARY				
	All Sectors	Consulting	Financial	Technology	Other
Mean	\$105,626	\$104,000	\$110,345	\$110,600	\$95,816
Maximum	\$125,000	\$125,000	\$122,000	\$120,000	\$125,000
75th Percentile	\$121,000	\$116,000	\$122,000	\$114,000	\$107,792
Median	\$110,000	\$95,000	\$120,000	\$114,000	\$95,000
25th Percentile	\$95,000	\$92,500	\$100,000	\$105,000	\$88,686
Minimum	\$60,000	\$90,000	\$80,000	\$100,000	\$60,000
N	63	15	29	5	14
% of Total	100%	24%	46%	8%	22%

## COMPENSATION BY GEOGRAPHIC REGION

	ANNUAL BASE SALARY				
	North Carolina	U.S. Census Regions Outside North Carolina			
		South	Northeast	Midwest	West
Mean	\$109,954	\$95,832	\$100,750	\$111,833	*
Maximum	\$125,000	\$118,000	\$114,000	\$122,000	*
75th Percentile	\$122,000	\$104,197	\$114,000	\$122,000	*
Median	\$115,000	\$95,000	\$107,000	\$122,000	*
25th Percentile	\$101,250	\$90,000	\$93,750	\$101,750	*
Minimum	\$75,708	\$60,000	\$75,000	\$88,000	*
N	34	18	4	6	1
% of Total	53%	29%	6%	10%	2%

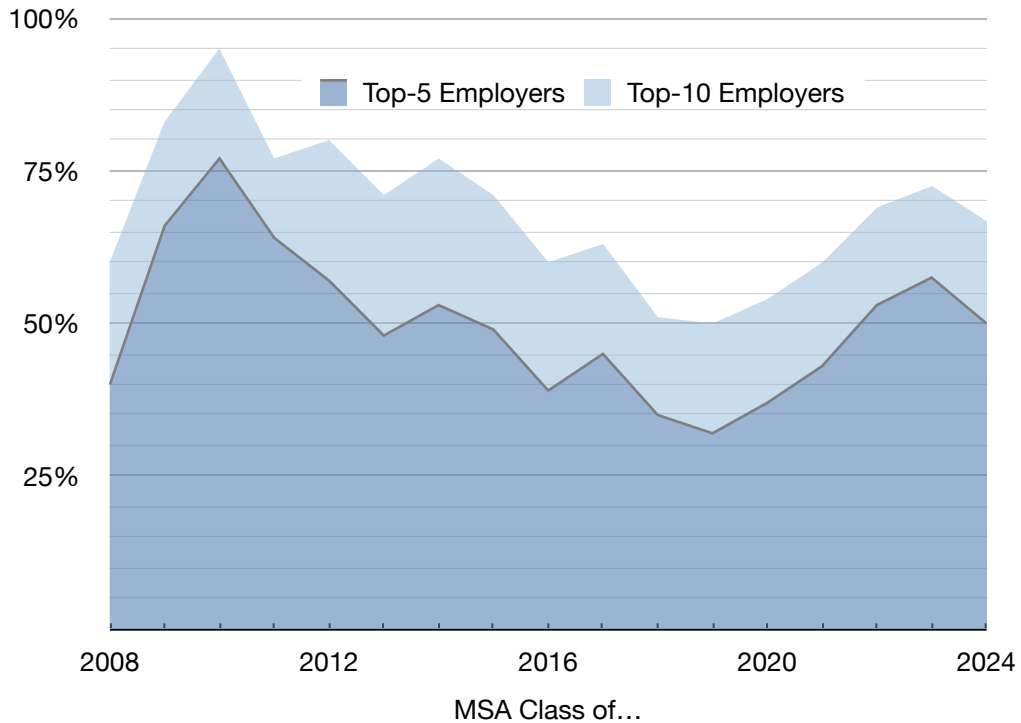
Geographic distribution is based on the location of the employer office, which may be different from the location of the candidate due to the increasing commonality of remote work.

### EMPLOYMENT BY RESIDENCY STATUS PRIOR TO ADMISSION

	Percent of Candidates Employed		Subtotal
	Inside North Carolina	Outside North Carolina	
Non-Resident	19%	21%	40%
NC Resident	35%	25%	60%
<b>Subtotal</b>	<b>54%</b>	<b>46%</b>	<b>100%</b>

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
<b>Admissions Report</b> with class demographics published:	July 1
Student roster available on Institute web site:	July 15
Employer information sessions begin in:	September 15
<b>Student Profiles</b> published:	October 1
<b>Student Resume Book</b> sent to employers:	December 1
Job interviews begin in:	January
Student job decision date:	March 1
Graduation in the first week of:	May
<b>Employment Report</b> 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.

May 28, 2024

\_\_\_\_\_  
Date



\_\_\_\_\_  
Dr. Michael Rappa

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

NC STATE UNIVERSITY