Institute for
ADVANCED ANALYTICS

Dr. Michael Rappa, Founding Director

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%

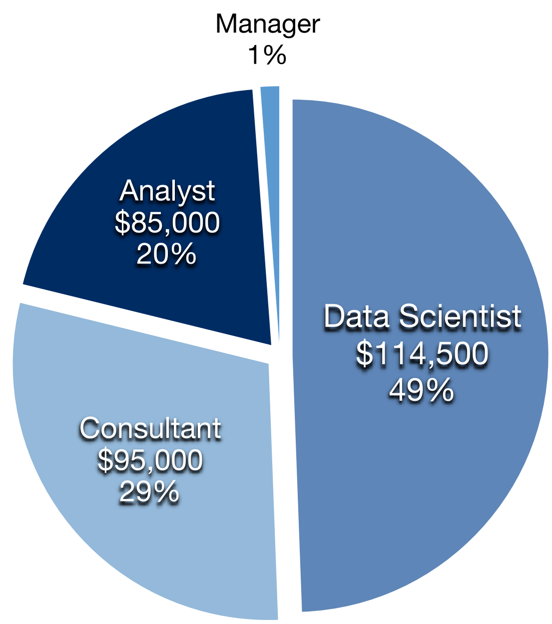
Placement results for Class of '24 reported 180-days post graduation, November 1, 2024.

For further information about recruiting contact: analytics@ncsu.edu

SELECTED POSITIONS FILLED

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

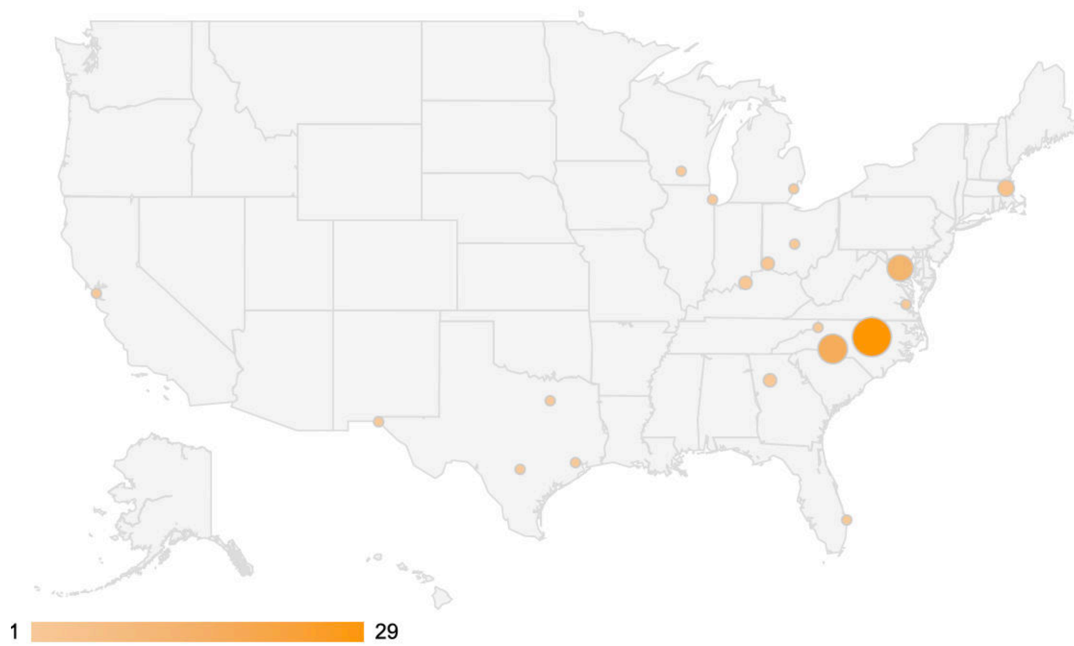
EMPLOYERS

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

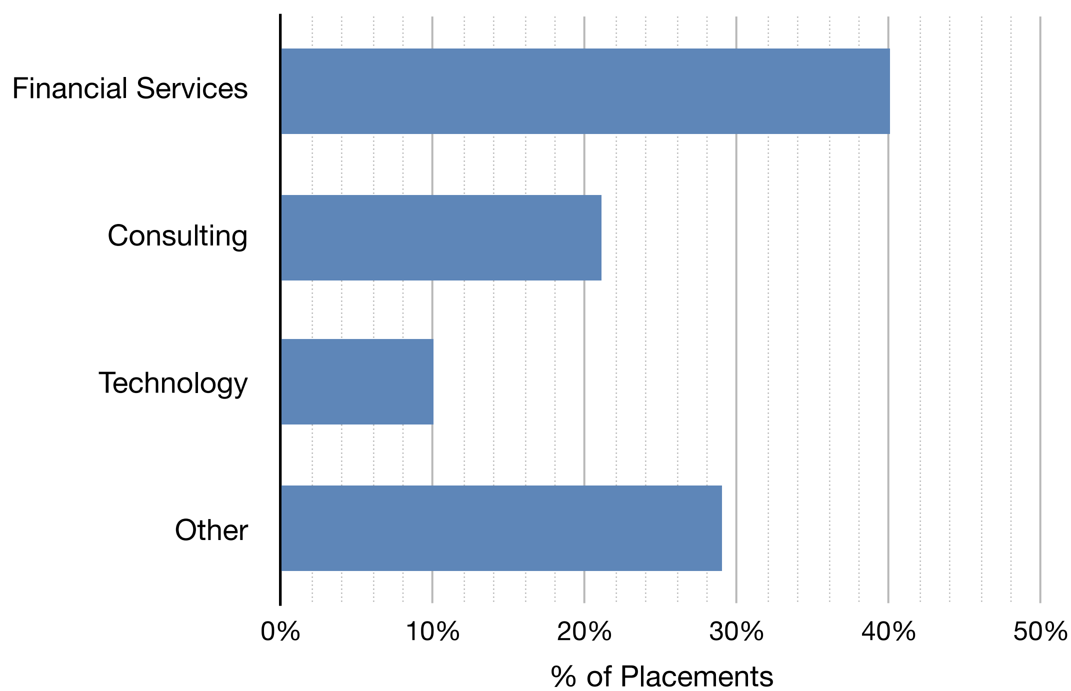
Academic Programs International
Align Technology
Ally Financial
Ankura*
Appalachian State University
Bank of America
BlueFoot AI
Capgemini
CenterWell Humana
Charles Schwab
City of Raleigh (Fire Department)
Civic Federal Credit Union
Cymantix
D.C. United Football Club
Deutsche Bank
Durham VA Medical Center*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

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

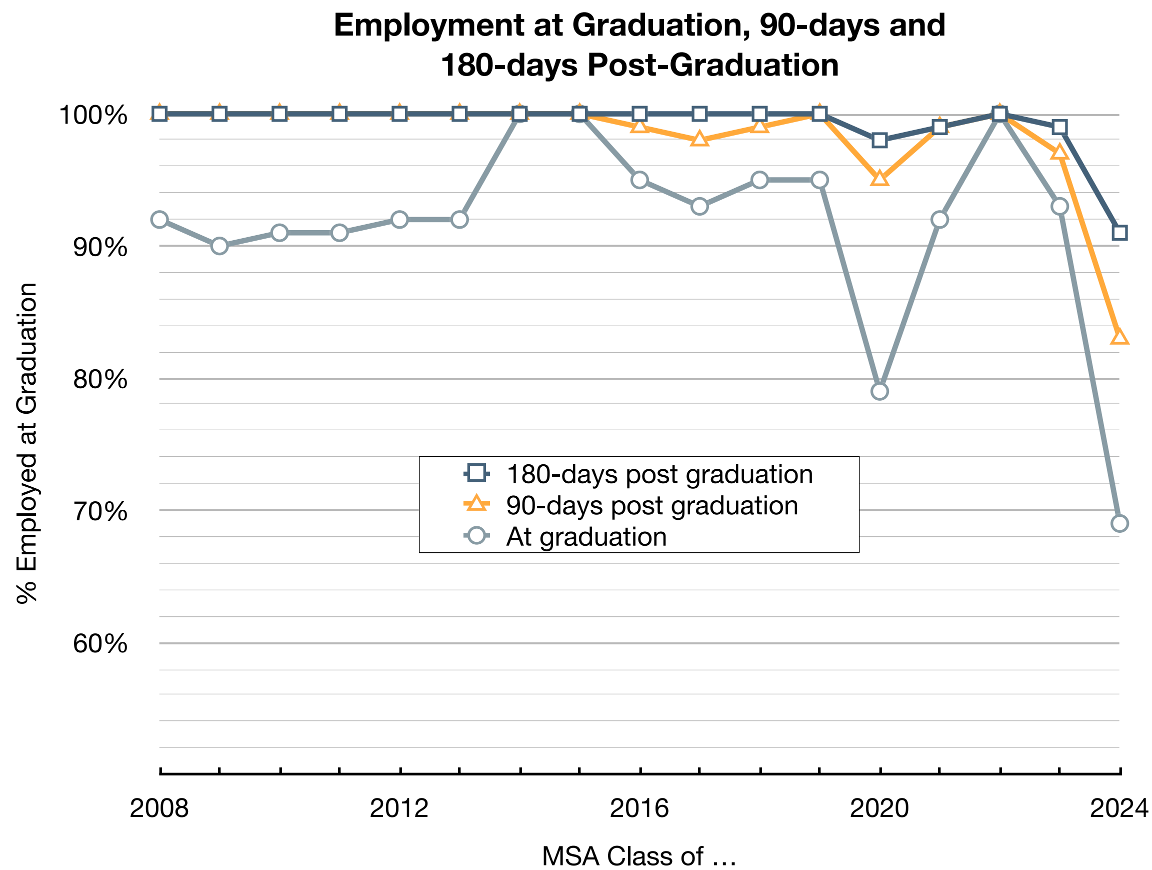


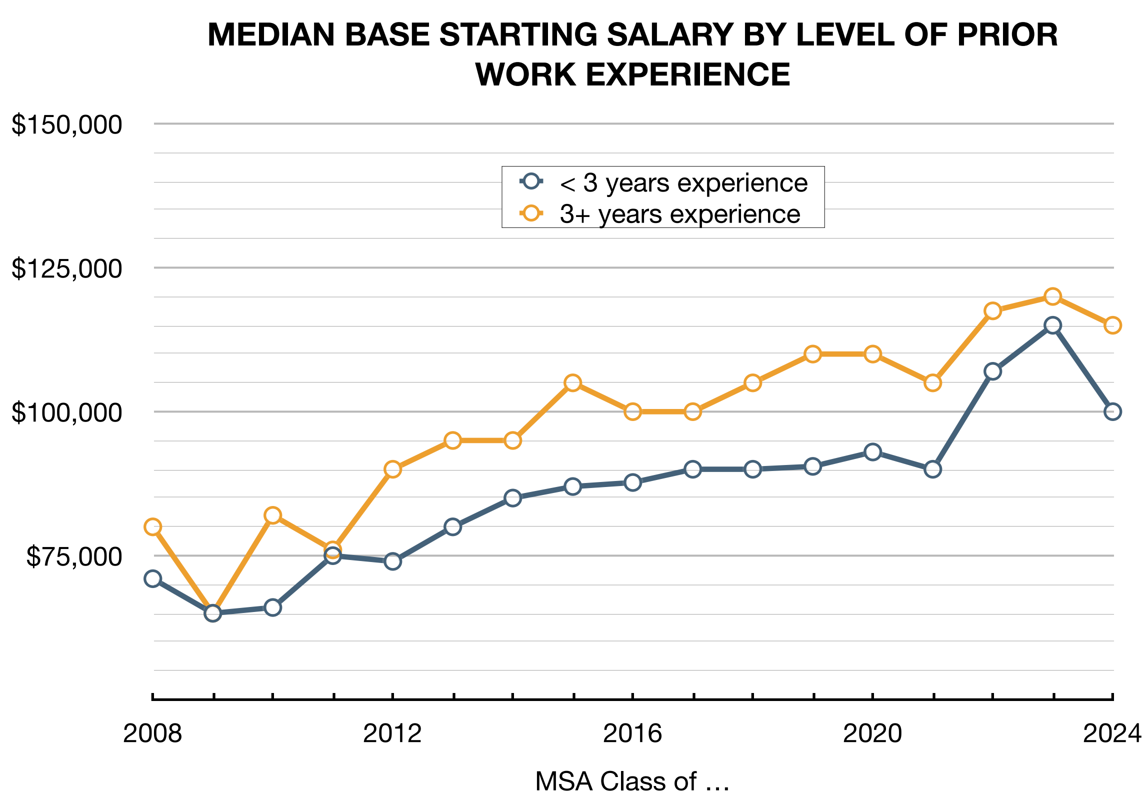
COMPENSATION BY MAJOR POSITION CATEGORIES

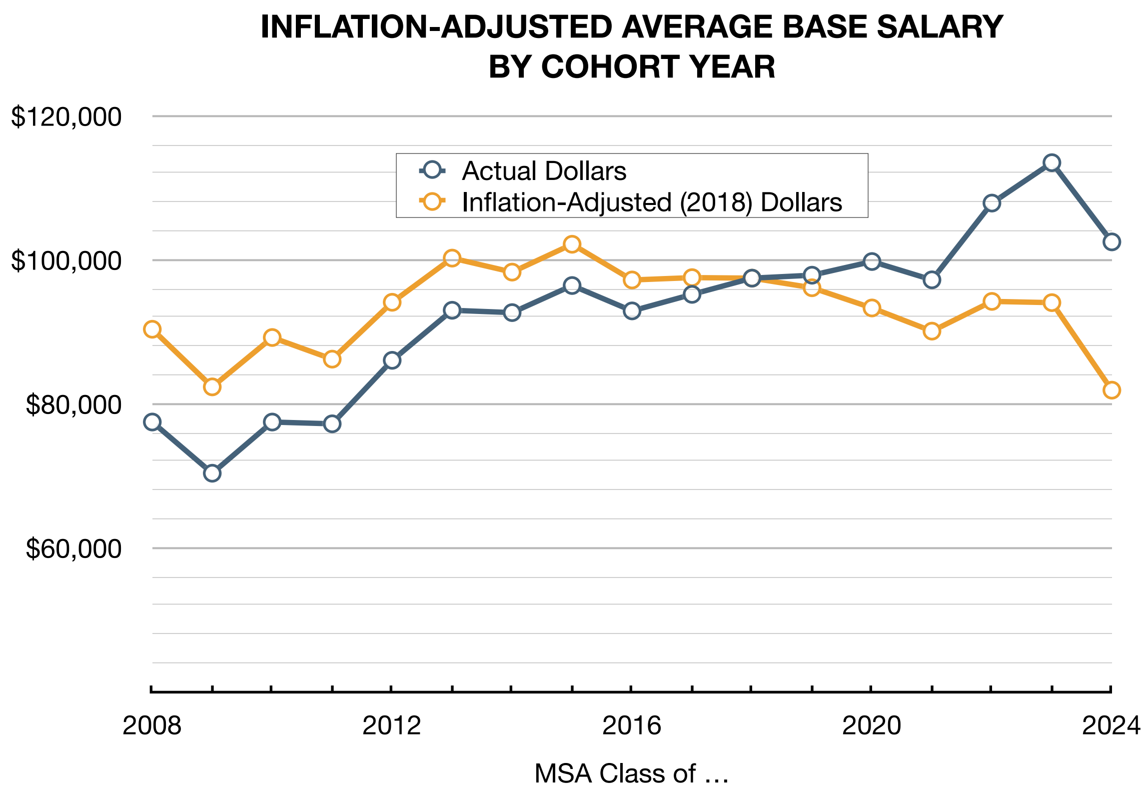
	ANNUAL BASE SALARY				
	All	Data Scientist	Analyst	Consultant	Other
Mean	$102,500	$110,972	$87,855	$103,059	*
Maximum	$150,000	$150,000	$120,000	$125,000	*
75th Percentile	$118,500	$122,000	$95,000	$115,000	*
Median	$106,096	$114,000	$86,000	$95,000	*
25th Percentile	$90,000	$105,548	$80,000	$90,000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

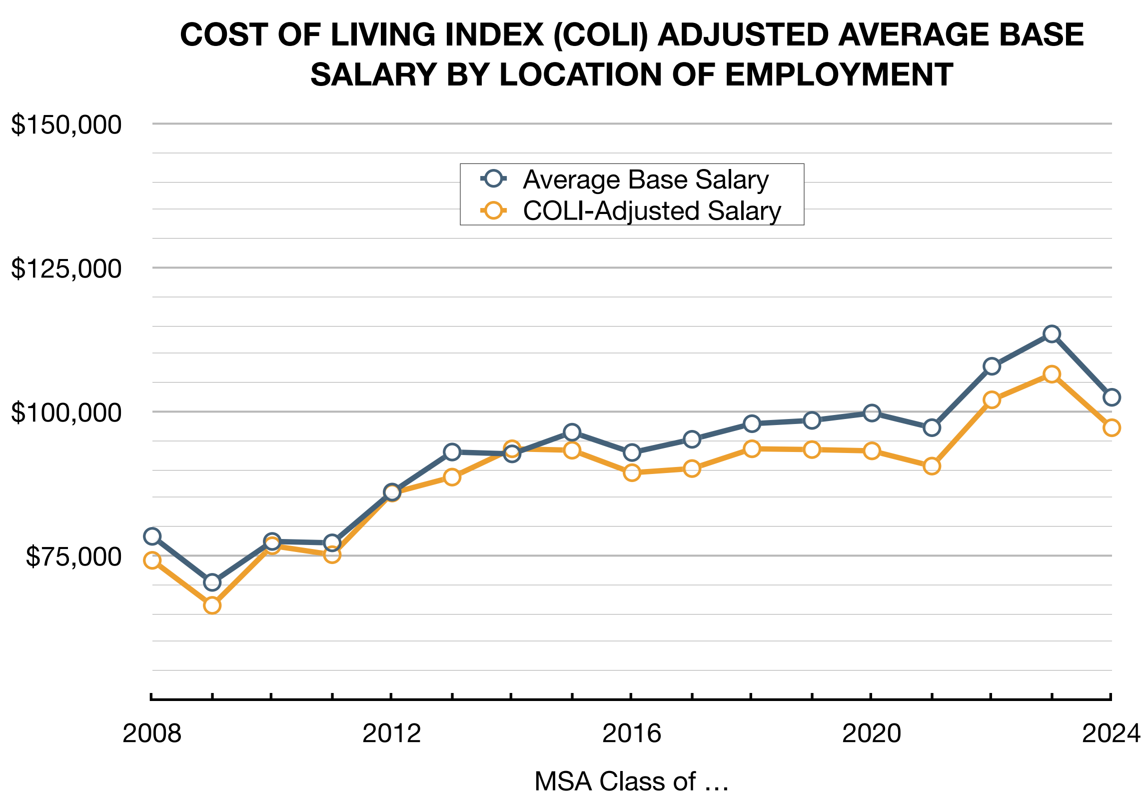
COMPENSATION BY AGE AND GENDER

	ANNUAL BASE SALARY					
		Age Brackets			Gender Indentity	
	All	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%


Employment at Graduation, 90-days and
180-days Post-Graduation
100%
90%
80%
70%
60%
% Employed at Graduation
180-days post graduation
90-days post graduation
At graduation
2008
2012
2016
2020
2024
MSA Class of …


MEDIAN BASE STARTING SALARY BY LEVEL OF PRIOR
WORK EXPERIENCE
$150,000
$125,000
$100,000
$75,000
< 3 years experience
3+ years experience
2008
2012
2016
2020
2024
MSA Class of …


INFLATION-ADJUSTED AVERAGE BASE SALARY
BY COHORT YEAR
$120,000
$100,000
$80,000
$60,000
Actual Dollars
Inflation-Adjusted (2018) Dollars
2008
2012
2016
2020
2024
MSA Class of …


COST OF LIVING INDEX (COLI) ADJUSTED AVERAGE BASE
SALARY BY LOCATION OF EMPLOYMENT
$150,000
$125,000
$100,000
$75,000
Average Base Salary
COLI-Adjusted Salary
2008
2012
2016
2020
2024
MSA Class of …

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.

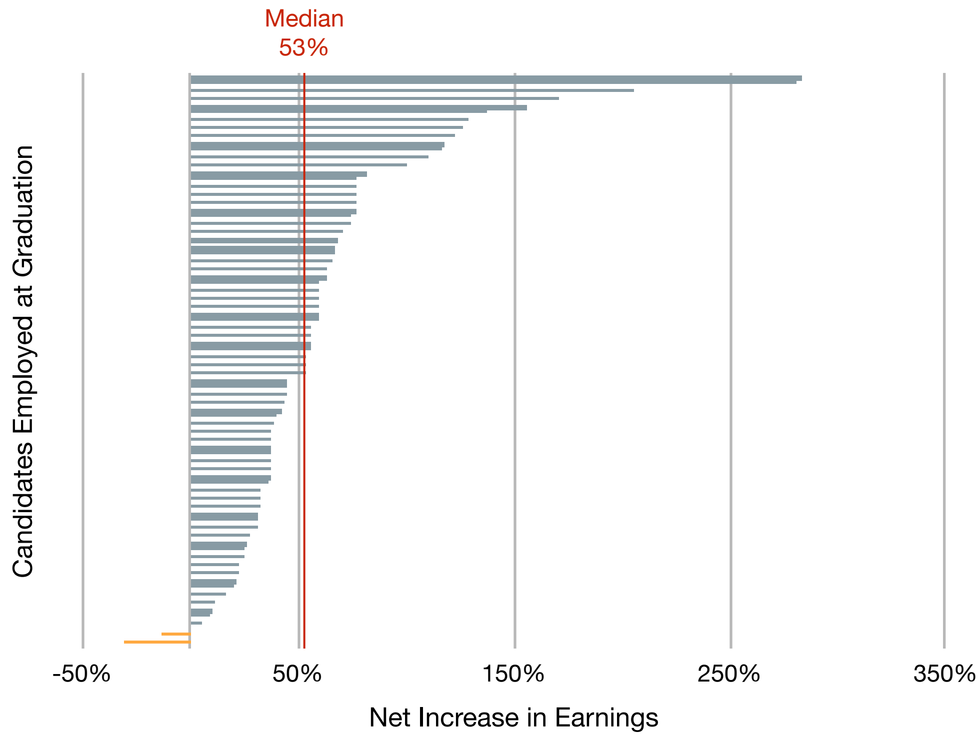
PAYBACK PERIOD CALCULATION

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

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)..

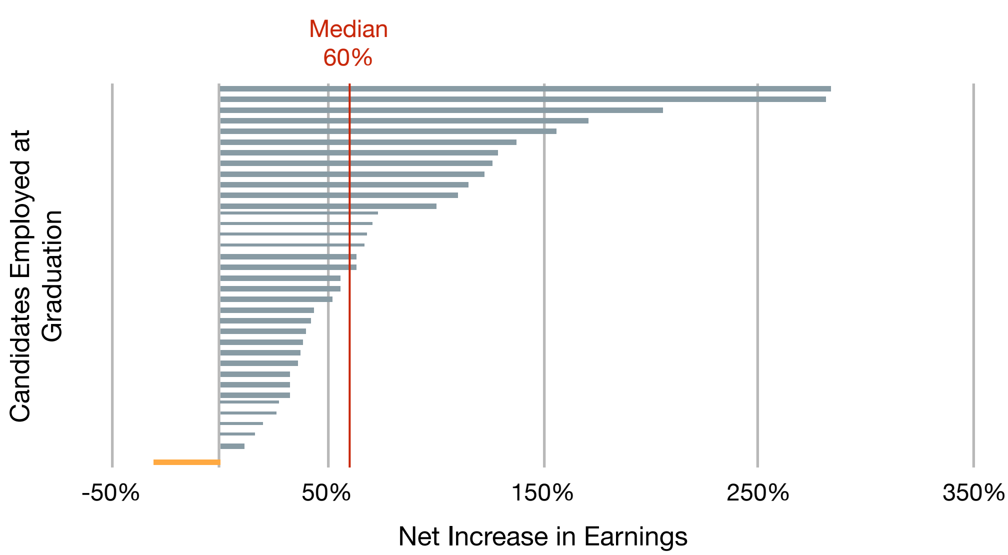
Students are assumed to forgo one-year of earning, even though the MSA program is 10-months in duration. The payback calculation does not take into consideration interest incurred by students who borrow to finance their education.

ESTIMATED NET INCREASE IN EARNINGS FOR ALL CANDIDATES, RANK ORDERED



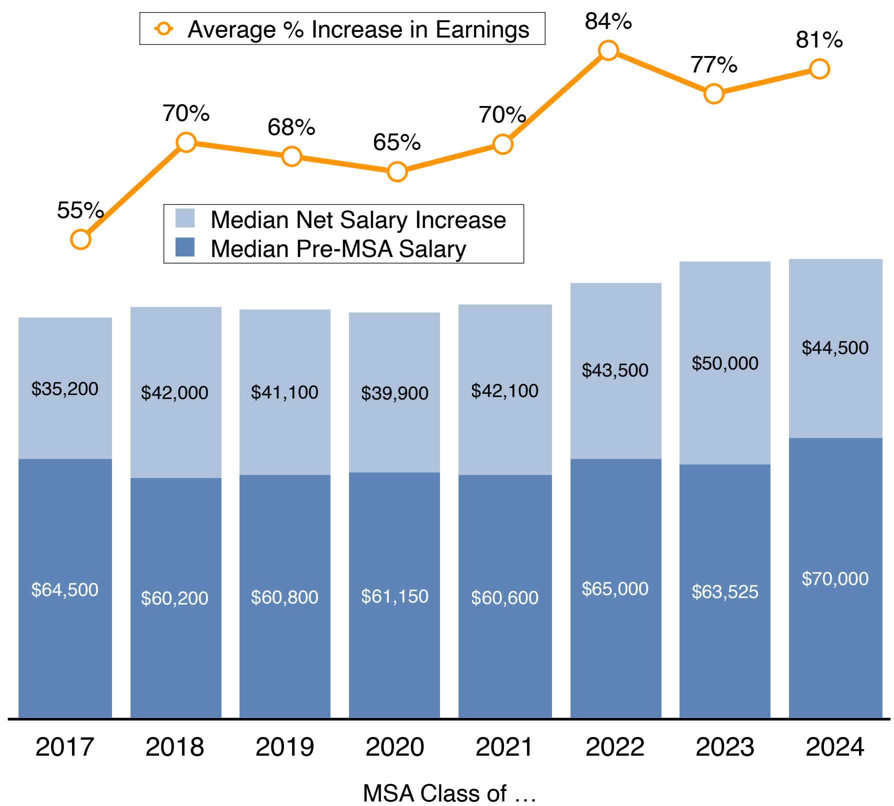
Note: The net increase in earnings is calculated for candidates with no prior work experience using inputed data for the median earnings reported by university graduates in May 2023 ($68,750). Source: Institutional Strategy and Analysis, May 2023 Undergraduate Future Plans Survey: All Respondents Overview,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

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

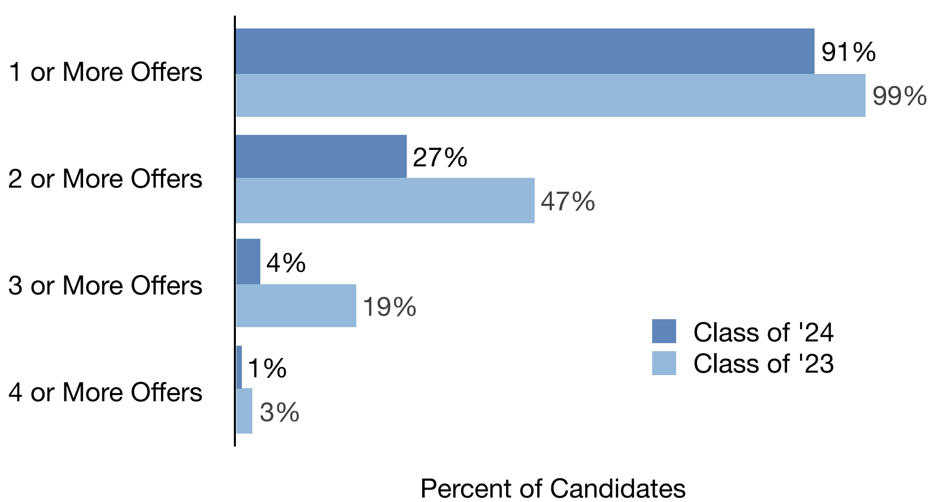


NET INCREASE IN EARNINGS FOR PREVIOUSLY EMPLOYED CANDIDATES

(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%

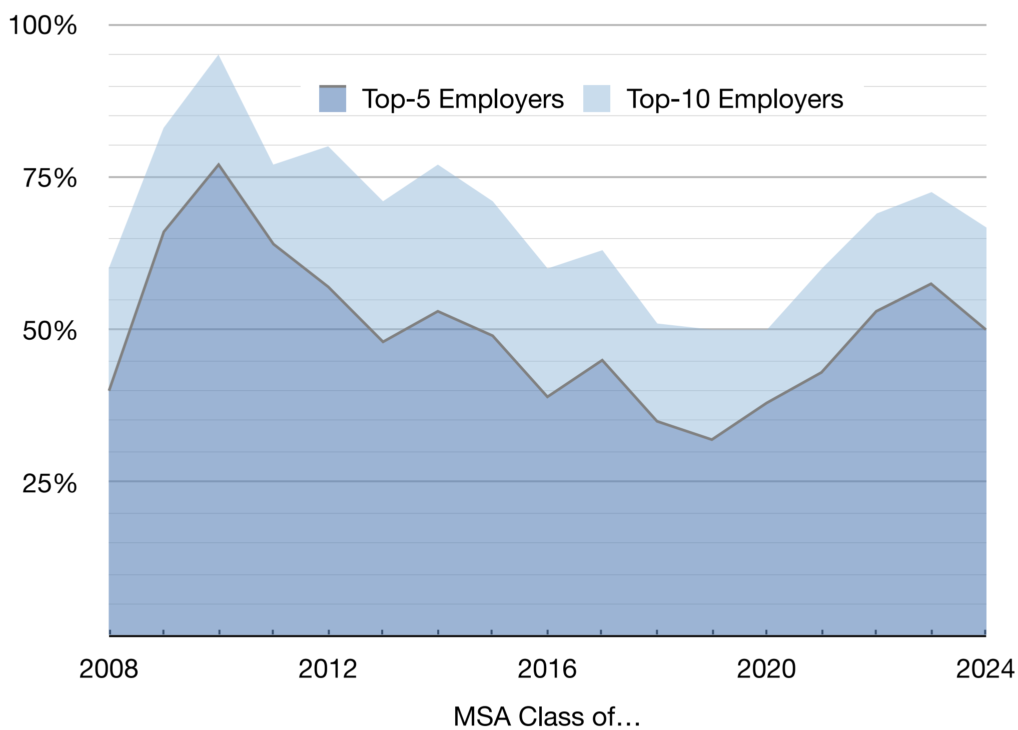
Geographic distribution is based on the location of the employer office, which may be different from the location of the candidate due to the increasing commonality of remote work.

EMPLOYMENT BY RESIDENCY STATUS PRIOR TO ADMISSION

	Percent of Candidates Employed		
	Inside North Carolina	Outside North Carolina	Subtotal
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 beginn 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