

MASTER OF SCIENCE IN ANALYTICS

2019 EMPLOYMENT REPORT

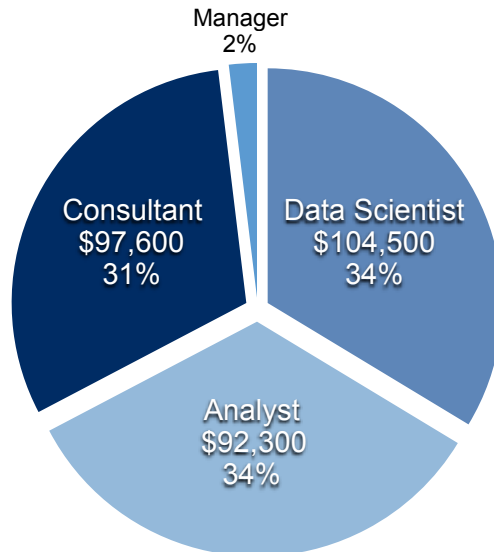
Number of graduates:	111
Number of graduates seeking new employment:	110
Candidates employed at graduation:	95%
Average base salary:	\$98,500
Number of employers interviewing (number on site):	146 (54)
Median number of initial job interviews per candidate:	12
Median number of offers of employment per candidate:	2
Job placements facilitated by the Institute:	94%
Estimated ROI payback period in months:	23
Total number of reported job offers:	262
Job placements based in North Carolina:	48%
Job placements based in U.S.:	100%
Candidates reporting salary data:	100%

Placement results for Class of 2019 reported as of May 15, 2019.

POSITIONS FILLED

Analytical Consultant (3)	Lead Analyst, BI and Analytics
Advanced Analytics Specialist (4)	Loan Analyst
Analytics Analyst (2)	Marketing Analytics Lead
Analytics Associate	Marketing Analytics Specialist
Analytics Consultant	Model Validation Analyst
Analytics Senior Analyst (2)	Quantitative Model Developer (2)
Assistant VP, Senior Decision Scientist (3)	Risk Analysis Specialist
Assistant VP, AML Data Scientist	Risk Analyst (4)
Associate	Senior Analyst, Asset Protection
Associate Consultant (2)	Senior Analyst, BI and Analytics (2)
Associate Data Scientist	Senior Analyst, Customer Analytics
Audit Analytics Specialist	Senior Analyst, Merchandising
Business Analytics Advisor (2)	Senior Associate (2)
Business Manager	Senior Associate Analytical Consultant (4)
Business Strategy Analyst (2)	Senior Associate Test Engineer
Clinical Data Programmer	Senior Associate, Business Insights & Analytics
Consultant	Senior Business Analyst, Data Process Engineering
Data Analyst (2)	Senior Consultant (8)
Data and Analytics Analyst	Senior Credit Risk Analyst
Data Scientist (28)	Senior Manager, Card Association Management
Director of Computer Vision	Senior Quantitative Analyst
Director of Digital Architecture	Staff Consultant II (6)
Experienced Associate	
Genetic Project Lead	
Internal Auditor - BSA/AML	

MAJOR TYPES OF POSITIONS AND AVERAGE BASE SALARIES



COMPENSATION BY EXPERIENCE LEVEL

	ANNUAL BASE SALARY				SIGNING BONUS
	Total	Prior Work Experience			
		None	1-2 Years	3+ Years	
Mean	\$98,500	\$92,400	\$92,400	\$109,500	\$10,000
Maximum	\$147,500	\$115,000	\$115,000	\$147,500	\$25,000
75th Percentile	\$105,500	\$100,000	\$102,500	\$123,000	\$11,000
Median	\$95,500	\$90,500	\$92,000	\$110,000	\$10,000
25th Percentile	\$87,500	\$85,000	\$85,000	\$100,000	\$6,000
Minimum	\$75,000	\$77,500	\$75,000	\$82,000	\$1,500
N	104	49	18	37	87
% Reporting	100%	47%	17%	36%	84%

Notes: Data with respect to salaries and bonuses are self-reported by graduates (without anonymity) and whenever possible verified by employers in cases where placement is arranged by the Institute (i.e., most candidates). One graduate was on leave from the military and returned to service. All other 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, relocation allowances or other forms of one-time compensation guaranteed upon signing. Conditional job offers (i.e., those requiring security clearance prior to employment) or other public sector employment are not included in salary data. As a STEM-qualified degree, international MSA graduates are eligible for Optional Practical Training (OPT). Commencement is typically held on the first Saturday in May. 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 completion of the MSA degree.

EMPLOYERS

(n = 61; with 45 employers succeeding in hiring one or more candidates)

Accenture Federal Services*	iCiDIGITAL
Ally Financial*	Intact Insurance
Ankura*	JPMorgan Chase*
Asurion	KPMG
Atrium Health	Leoforce
Bain & Company*	LexisNexis
Bank of America*	LMI
BB&T*	Lowe's Companies*
Beghou Consulting*	Lumeris
Capital One	North Carolina Joint Underwriting Association
Cigna*	PenFed Credit Union*
Cisco Systems	PPD
Cognizant	Primrose Schools*
Core Compete	Progressive Leasing
Daimler Trucks	Putnam Investments*
Deloitte*	PwC
DISH Network*	RBC Bank
Elder Research*	Red Ventures
Elevate*	SAS*
Elicit	Siemens
Euler Hermes	Slalom Consulting
EY*	Synechron*
Fidelity Investments*	Syneos Health
Fifth Third Bank*	Syngenta
Glen Raven	The Advis Group
GoDaddy	The Home Depot
GroundTruth Ag*	U.S. Space & Naval Warfare Systems Command
Guidehouse	U.S. Department of Agriculture
Hanesbrands	University of Florida–Jacksonville Medical Center
Health Care Service Corporation (BCBS)*	Wake Forest University Center for Biomedical Informatics
Health Credit Services	

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

* = employers that hired more than one candidate.

List does not include conditional offers (i.e., those requiring security clearance) made by agencies of the federal government.

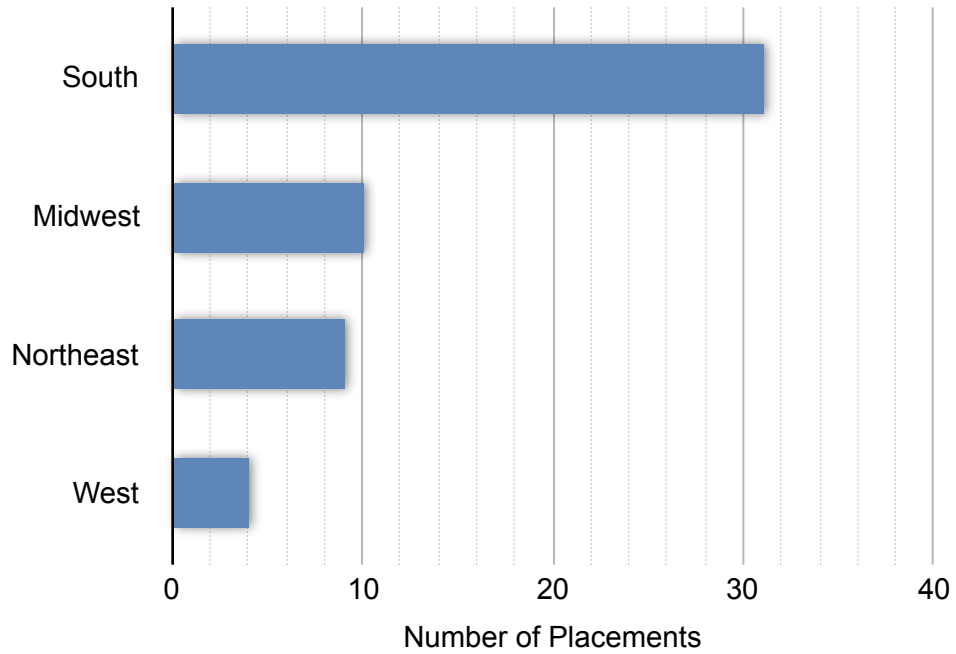
COMPENSATION BY GEOGRAPHIC REGION

	ANNUAL BASE SALARY				
	North Carolina	U.S. Census Regions Outside North Carolina			
		South	Northeast	Midwest	West
Mean	\$96,600	\$97,000	\$107,900	\$103,350	*
Maximum	\$147,500	\$125,000	\$125,000	\$120,000	*
75th Percentile	\$106,500	\$101,000	\$123,000	\$115,000	*
Median	\$91,250	\$95,000	\$115,000	\$105,000	*
25th Percentile	\$85,000	\$90,000	\$90,000	\$94,625	*
Minimum	\$75,000	\$77,500	\$85,000	\$80,000	*
N	50	31	9	10	4

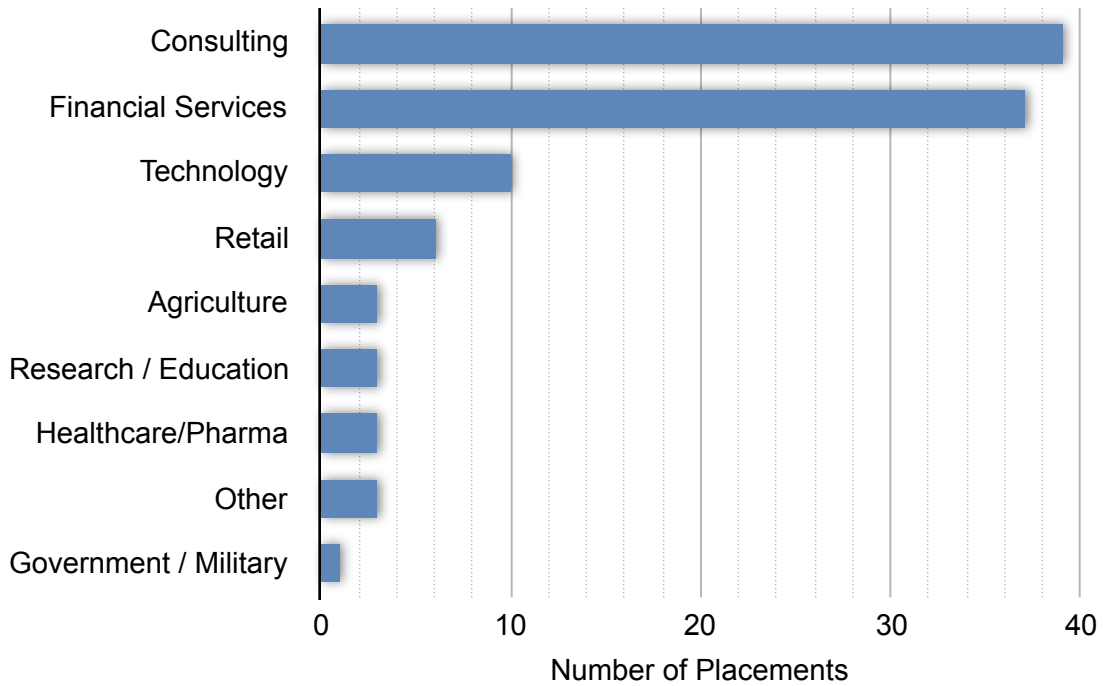
COMPENSATION BY INDUSTRY SECTOR

	ANNUAL BASE SALARY				
	All Sectors	Consulting	Financial	Technology	Other
Mean	\$98,500	\$96,500	\$105,500	\$93,250	\$91,250
Maximum	\$147,500	\$147,500	\$125,000	\$130,000	\$115,000
75th Percentile	\$105,500	\$105,000	\$115,000	\$96,875	\$94,250
Median	\$95,500	\$92,000	\$105,000	\$87,500	\$90,250
25th Percentile	\$87,500	\$85,000	\$95,000	\$87,500	\$85,000
Minimum	\$75,000	\$77,500	\$75,000	\$80,000	\$80,000
N	104	39	37	10	13

DISTRIBUTION OF EMPLOYMENT OUTSIDE NORTH CAROLINA BY U.S. CENSUS REGION



DISTRIBUTION OF EMPLOYMENT BY INDUSTRY SECTOR

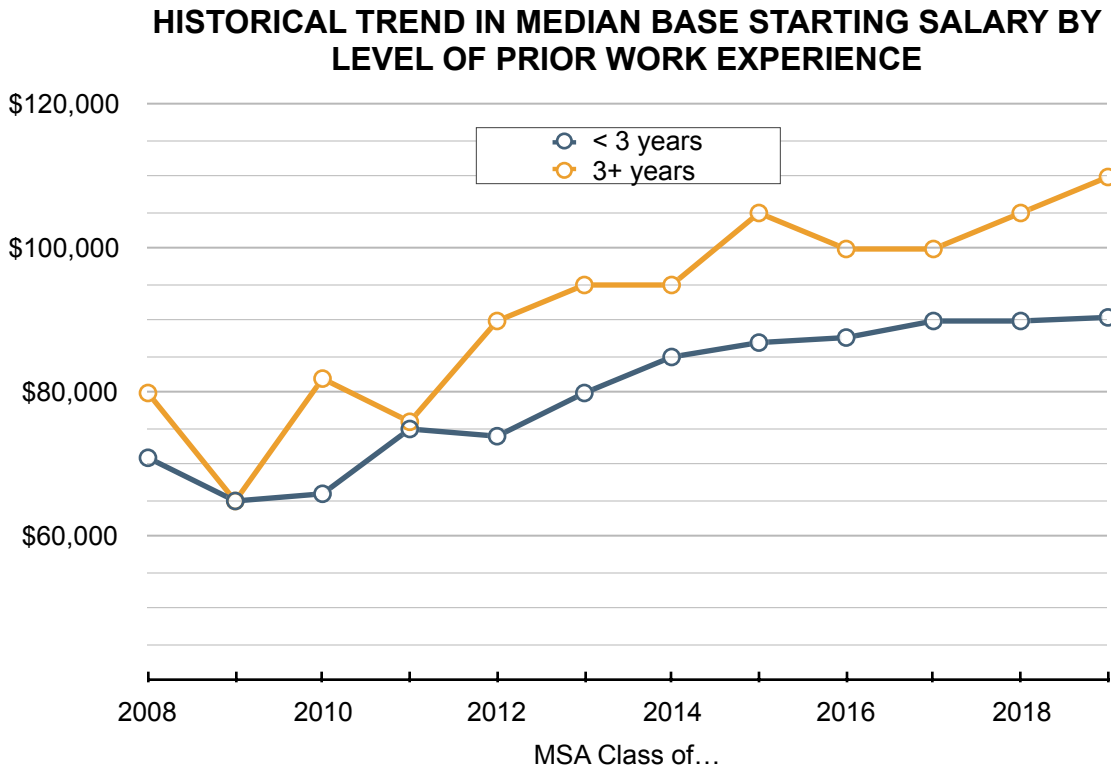
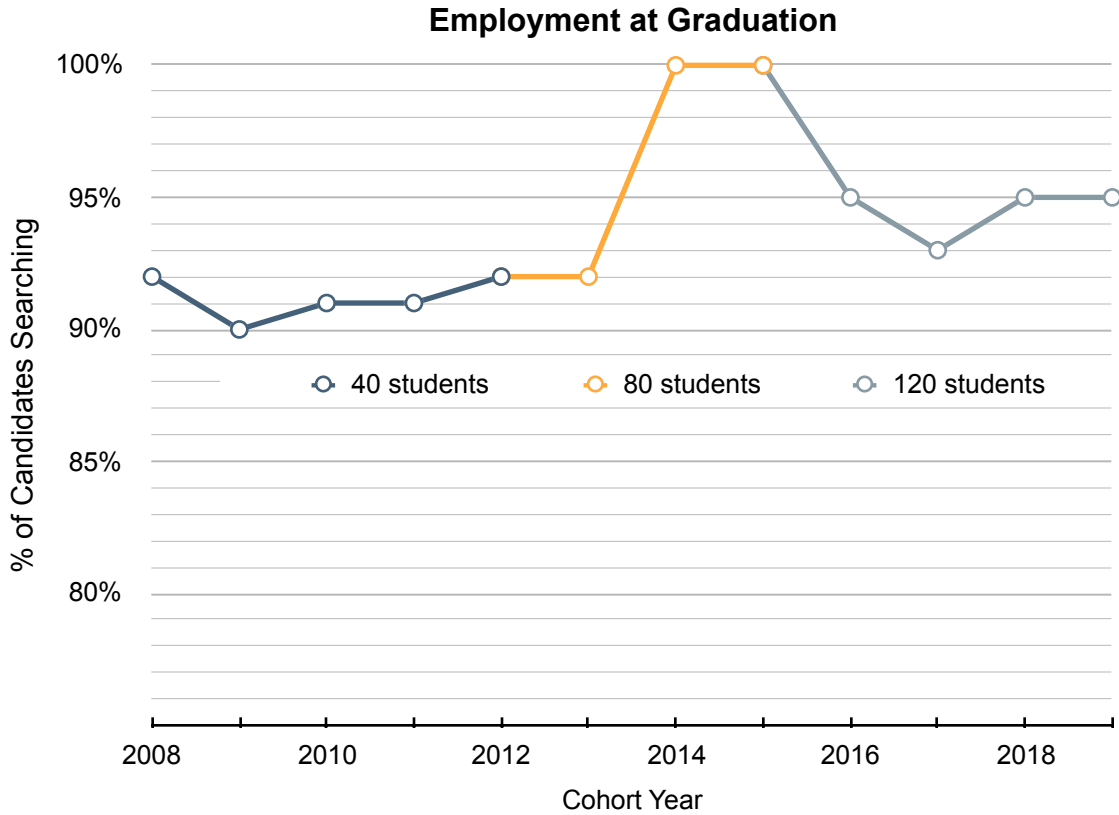


COMPENSATION BY AGE AND GENDER

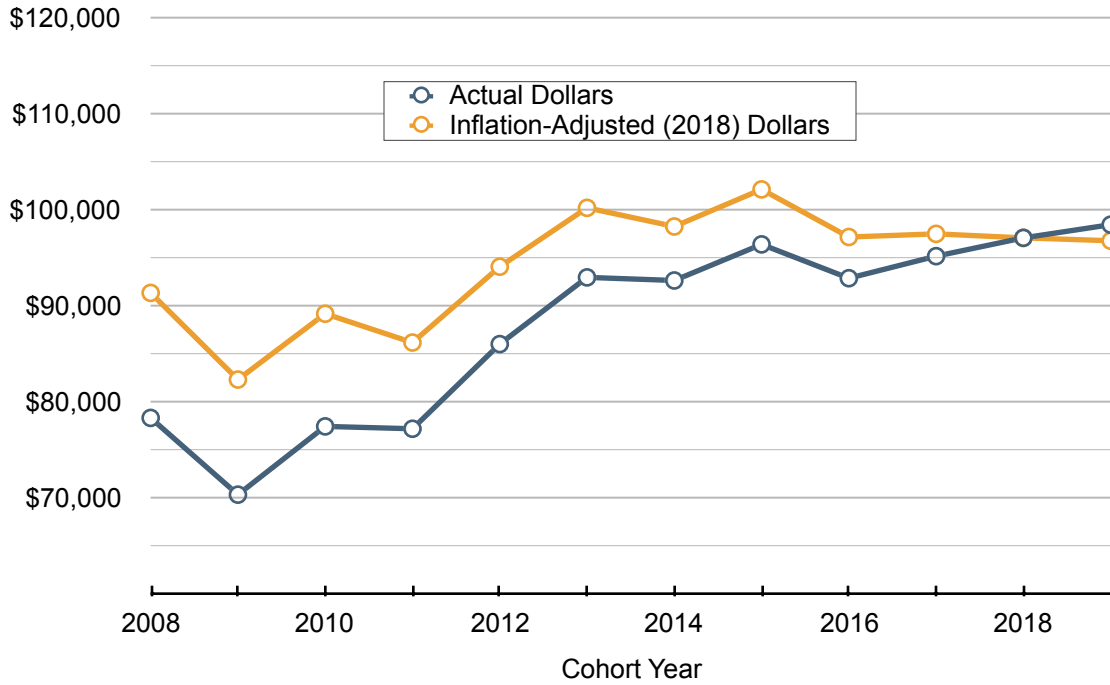
	ANNUAL BASE SALARY					
	All	Age Brackets			Gender	
		20–24	25–29	30+	Men	Women
Mean	\$98,500	\$92,200	\$99,300	\$110,100	\$98,500	\$98,450
Maximum	\$147,500	\$115,000	\$130,000	\$147,500	\$147,500	\$130,000
75th Percentile	\$105,500	\$98,000	\$108,125	\$121,500	\$106,250	\$105,500
Median	\$95,500	\$90,000	\$100,000	\$107,000	\$95,500	\$96,500
25th Percentile	\$87,500	\$85,000	\$86,800	\$102,500	\$86,500	\$87,500
Minimum	\$75,000	\$77,500	\$75,000	\$82,000	\$75,000	\$77,500
N	104	41	44	19	64	40

COMPENSATION BY MAJOR POSITION CATEGORIES

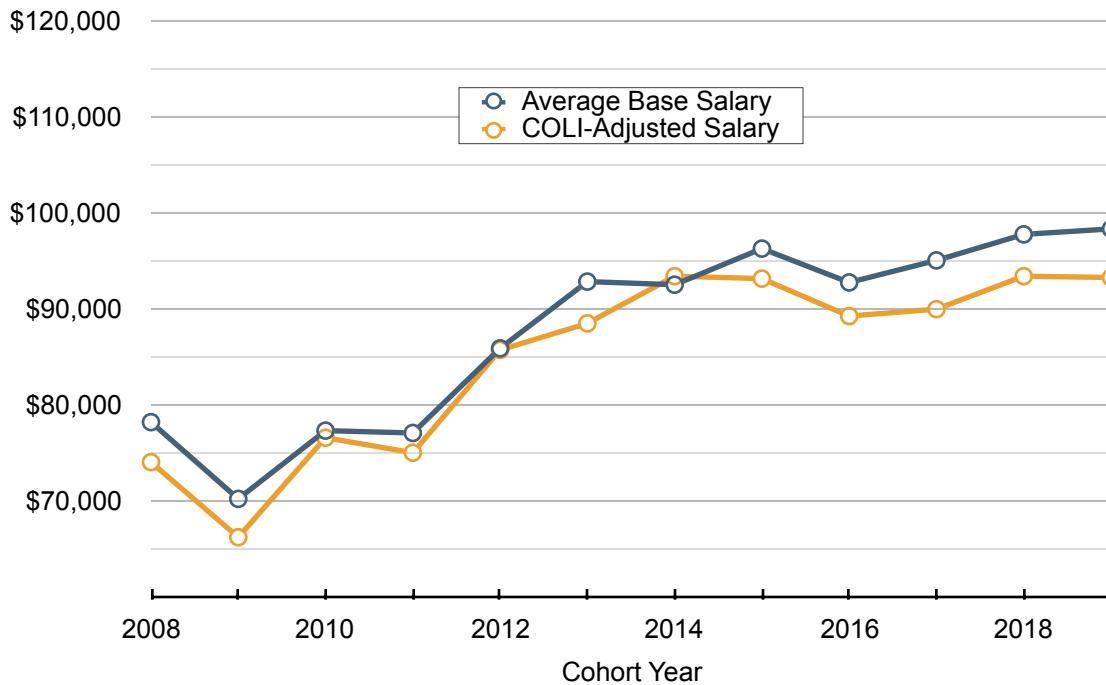
	ANNUAL BASE SALARY				
	All	Data Scientist	Analyst	Consultant	Manager
Mean	\$98,500	\$104,500	\$92,300	\$97,600	*
Maximum	\$147,500	\$123,000	\$130,000	\$147,500	*
75th Percentile	\$105,500	\$115,000	\$98,000	\$105,000	*
Median	\$95,500	\$104,000	\$90,500	\$91,000	*
25th Percentile	\$87,500	\$98,000	\$85,000	\$85,000	*
Minimum	\$75,000	\$80,000	\$75,000	\$80,000	*
N	104	35	35	32	2



Inflation-Adjusted Average Starting Salary by Cohort Year



Trend in Average Base Salary – Cost of Living Index (COLI)-Adjusted by Location of Employment



STUDENT RETURN ON INVESTMENT

	NC Resident	Non-Resident
Number of Respondents	75	29
Pre-MSA Salary Median*	\$63,000	\$56,000
(+) Tuition & Fees	\$26,500	\$46,500
(-) Signing Bonus	\$10,000	\$10,000
Total Investment	\$79,500	\$92,500
Post MSA Salary Median	\$104,000	\$105,000
(-) Pre-MSA Salary	\$63,000	\$56,000
Net Salary Increase	\$41,000	\$49,000
Payback Period (months)	23	23
Net 3-Year ROI	\$133,000	\$157,000
*Based on graduates with full-time employment prior to program entry.		

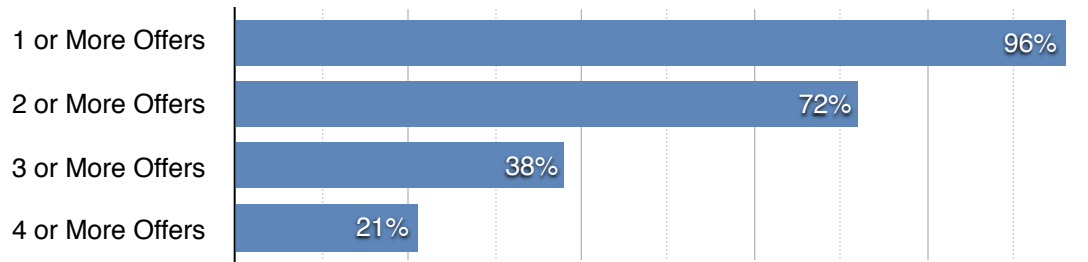
PAYBACK PERIOD CALCULATION

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

Notes: The response rate was 100-percent. Respondents provided information about their pre- and post-MSA annual base salaries, signing bonuses, and residency status (which determines tuition payments). Seventy-two percent of respondents were NC residents, and 55-percent were employed full-time prior to entry. The median salary increase was \$43,000; all but two respondents reported an increase in salary. The ROI payback period calculated for each candidate employed by graduation, based on their individual circumstances (residency, tuition, pre- and post-salaries, and signing bonuses), yielded a median payback period of 23 months.

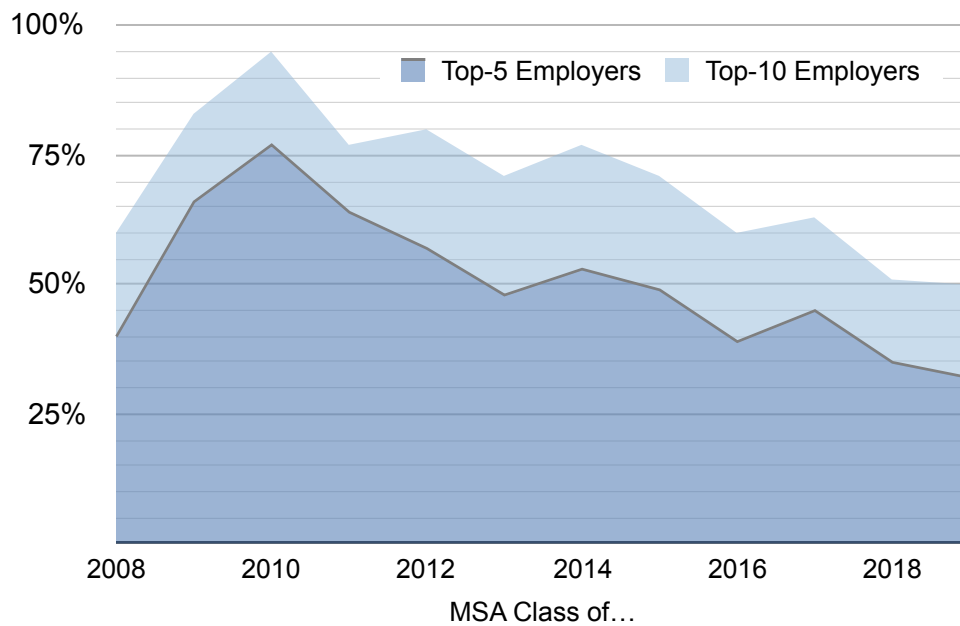
Students are assumed to forgo one-year of earning, even though the MSA program is only 10-months in duration. Pre-MSA salaries ranged from \$40,000 to \$154,000. The payback calculation does not take into consideration interest incurred by students who borrow to finance their education.

NUMBER OF JOB OFFERS RECEIVED BY GRADUATION



Percent of Candidates

HISTORICAL TREND IN PLACEMENT CONCENTRATION AMONG THE TOP-5 AND TOP-10 EMPLOYERS



EMPLOYMENT BY RESIDENCY STATUS PRIOR TO ADMISSION

	Number of Candidates Employed		Subtotal
	Inside North Carolina	Outside North Carolina	
Non-Resident	10	19	29
NC Resident	40	35	75
Subtotal	50	54	104



RECRUITING TIMETABLE – MSA CLASS OF 2020	
New cohort of 120 students arrives:	June
Basic demographic profile of new cohort published:	July 1
New student roster available on Institute web site:	July 15
Employer information sessions hosted beginning first week of:	September
Student Profile Book available on web site:	October 1
Student Resume Book sent to employers:	December 1
On-site interviews begin second week of:	January
Student placement decision date:	March 15
Graduation date normally 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 15, 2019 in conformity with principles generally accepted among universities in the United States of America.

Dr. Michael Rappa
 Institute Director

Source URL: <http://analytics.ncsu.edu/reports/employment/MSA2019.pdf>

NC STATE UNIVERSITY