

MASTER OF SCIENCE IN ANALYTICS

2018 EMPLOYMENT REPORT

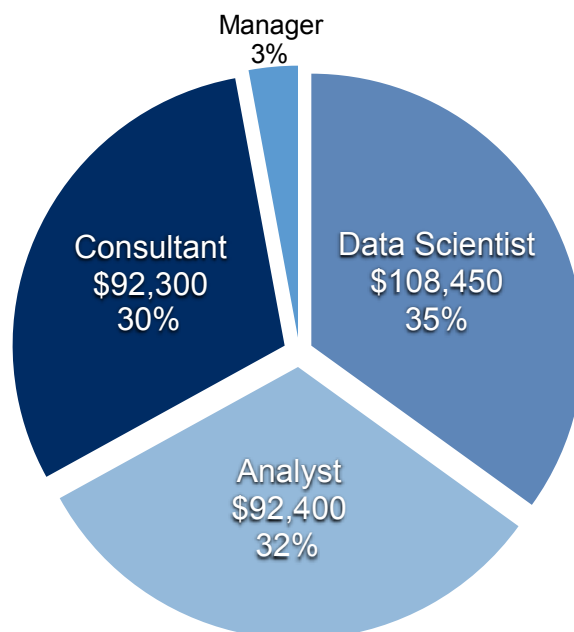
Number of graduates:	111
Number of graduates seeking new employment:	108
Candidates employed at graduation:	95%
Average base salary:	\$98,200
Number of employers interviewing (number on site):	156 (55)
Median number of initial job interviews per candidate:	12
Median number of offers of employment per candidate:	3
Job placements facilitated by the Institute:	91%
Estimated ROI payback period in months:	20
Total number of reported job offers:	310
Job placements based in North Carolina:	45%
Job placements based in U.S.:	100%
Candidates reporting job offer data:	100%

Placement results for Class of 2018 reported as of May 15, 2018.

POSITIONS FILLED

Analytical Consultant (3)	Predictive Analytics Product Manager
Artificial Intelligence Engineer	Product Analyst
Assistant VP, Senior Decision Scientist	Quantitative Analyst (3)
Associate	Research Analyst
Associate Consultant (2)	Risk Analyst (3)
Associate Data Scientist	Senior Analyst, Decision Analytics
Assistant VP, Data Scientist (2)	Senior Analytics Consultant
Assistant VP, Senior Decision Scientist	Senior Associate (4)
Assistant VP, Senior Geographic Scientist	Senior Associate Analytical Consultant (4)
Business Analyst – Product Management and Analytics Associate	Senior Associate Analytics Tester (4)
Business Data Analyst	Senior Associate Data Scientist
Business Data Scientist (2)	Senior Associate Hosting Technical Account Manager
Consultant (6)	Senior Associate Solutions Consultant
Consulting Specialist – Data Scientist Track	Senior Consultant (2)
Consumer and Marketing Insights	Senior Quantitative Analyst
Customer Insights Senior Analyst (2)	Senior Statistician – Business Analytics (2)
Data Analyst (4)	Specialist, Global Advanced Analytics (2)
Data Science (21)	Staff Consultant (7)
Engineer	Statistician/Data Scientist
Informatics/Analytics Senior Specialist (2)	Supply Chain Quantitative Analyst
Marketing Data Analyst	Vice President, Business Control Manager
Marketing Optimization Senior Analyst (3)	

MAJOR TYPES OF POSITIONS AND AVERAGE BASE SALARIES



COMPENSATION

	ANNUAL BASE SALARY				SIGNING BONUS
	Total	Prior Work Experience			
		None	1-2 Years	3+ Years	
Mean	\$98,200	\$92,000	\$100,300	\$106,700	\$11,750
Maximum	\$145,000	\$125,000	\$121,500	\$145,000	\$42,500
75th Percentile	\$106,250	\$100,000	\$105,000	\$115,000	\$15,000
Median	\$95,000	\$88,000	\$99,000	\$105,000	\$10,000
25th Percentile	\$87,500	\$84,000	\$90,000	\$96,000	\$5,300
Minimum	\$72,500	\$72,500	\$87,500	\$87,500	\$2,500
N	100	51	16	33	79
% Reporting	100%	51%	16%	33%	79%

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). Three graduates were international Fulbright Scholars and required to return to their home countries; one will remain temporarily in the U.S. to work before returning home. 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. Contracts, conditional job offers (i.e., those requiring security clearance prior to employment) or other public sector employment are not included in salary data (n=3). 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 EXTENDING OFFERS

Accenture	Lincoln Financial Group
Advance Auto Parts	Live Oak Bank
Altria Client Services	Lowe's Home Improvement*
Ankura Consulting Group*	M&T Bank
Asurion*	Merkle
Bain & Company*	MetaMetrics
Bank of America	National Air and Space Intelligence Center
Beghou Consulting	NetApp
BerkelyNet	Nielsen
Blue Cross Blue Shield	PenFed Credit Union
Capital One	PointSource / Globant
Cardinal Solutions	Putnam Investments
Chewy.com	PwC*
Cigna*	Red Hat*
Clarity Insights	Red Ventures*
Cognizant	Royal Bank of Canada*
Deloitte*	RTI International
Digital Roots	Sageworks
DraftKings	SAP.iO*
Elder Research*	SAS*
Elevate*	Siemens Digital Factory
Eli Lilly*	Slalom Consulting*
Elicit	Space and Naval Warfare Systems Command
Epic Games	Syneos Health
EY*	Syntelli Solutions
FedEx	The Home Depot
Fidelity Investments*	The Rams Club - Carolina Athletics
Fifth Third Bank*	TIAA
IBM	UNC Healthcare
InterWorks	Visionist
John Deere	Walmart
JPMorgan Chase*	Wells Fargo
KPMG	Whole Foods
LeoForce	Zencos

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

* = employers that hired more than one candidate.

List does not include conditional offers made by agencies of the federal government.

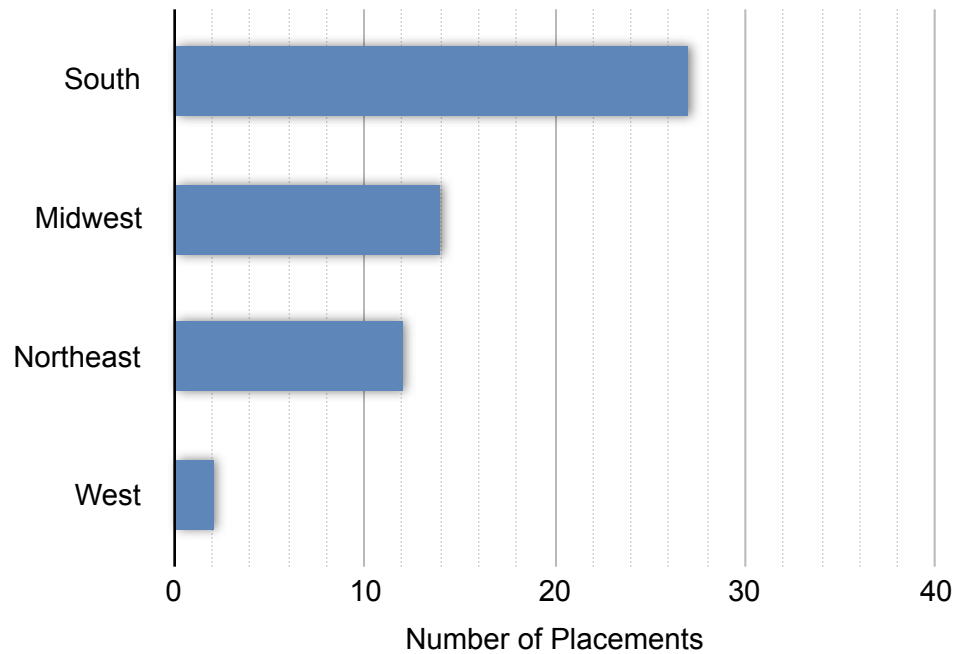
COMPENSATION BY GEOGRAPHIC REGION

	ANNUAL BASE SALARY				
	North Carolina	U.S. Census Regions Outside North Carolina			
		South	Northeast	Midwest	West
Mean	\$93,600	\$98,150	\$108,750	\$99,450	*
Maximum	\$125,000	\$115,000	\$125,000	\$125,000	*
75th Percentile	\$100,000	\$105,000	\$120,000	\$112,500	*
Median	\$90,000	\$100,000	\$112,500	\$95,000	*
25th Percentile	\$85,000	\$91,000	\$100,000	\$90,000	*
Minimum	\$72,500	\$80,000	\$80,000	\$77,000	*
N	44	27	12	14	2

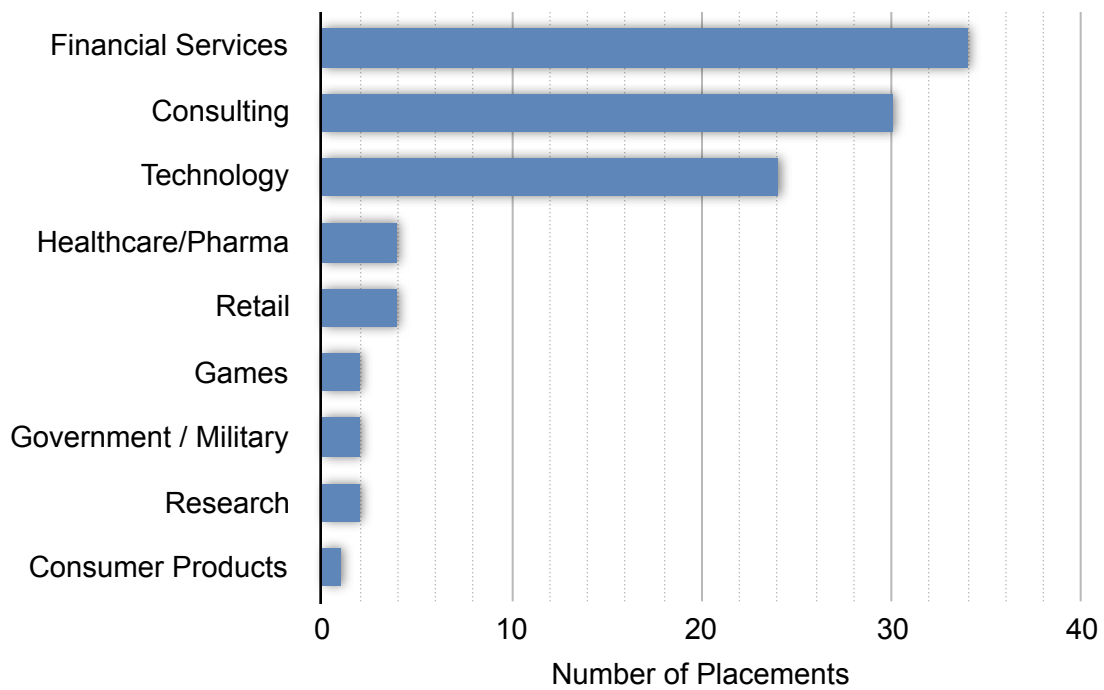
COMPENSATION BY INDUSTRY SECTOR

	ANNUAL BASE SALARY				
	All Sectors	Consulting	Financial	Technology	Other
Mean	\$98,200	\$94,000	\$105,350	\$96,100	\$93,400
Maximum	\$145,000	\$125,000	\$125,000	\$145,000	\$115,000
75th Percentile	\$106,250	\$105,000	\$120,000	\$97,000	\$98,000
Median	\$95,000	\$93,750	\$105,000	\$90,000	\$90,000
25th Percentile	\$87,500	\$81,250	\$90,000	\$87,500	\$85,000
Minimum	\$72,500	\$72,500	\$76,000	\$80,000	\$80,000
N	100	30	33	24	13

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



DISTRIBUTION OF EMPLOYMENT BY INDUSTRY SECTOR

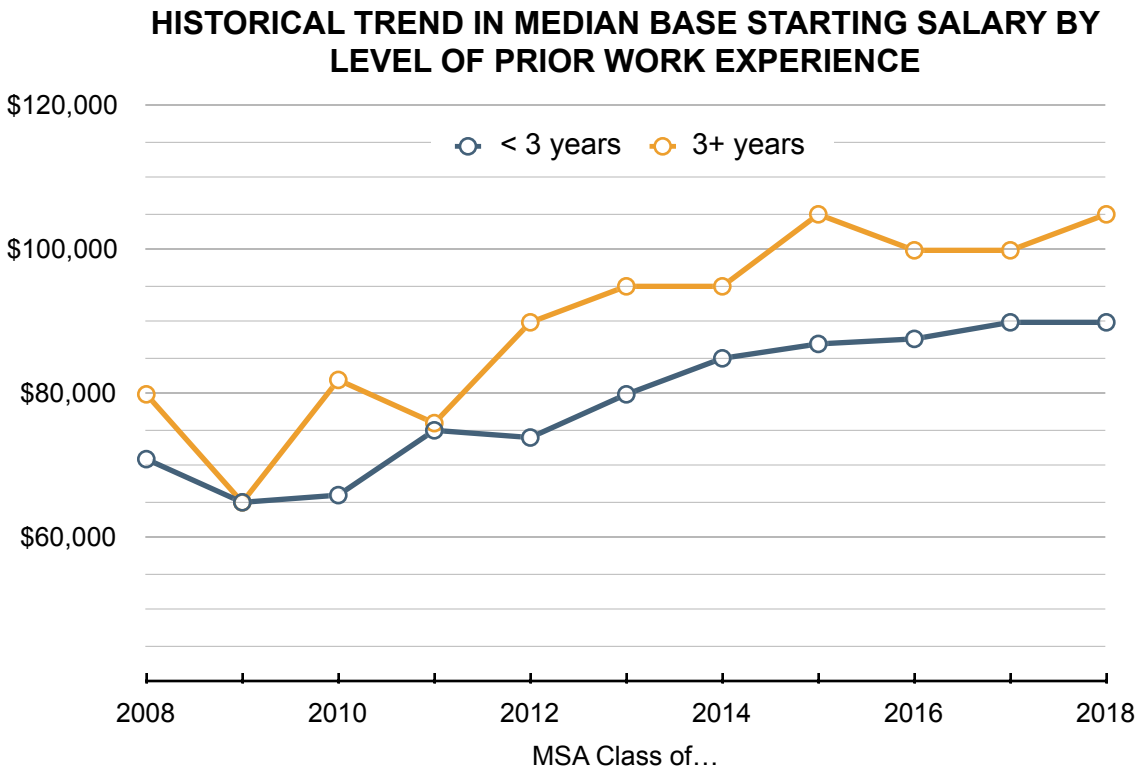
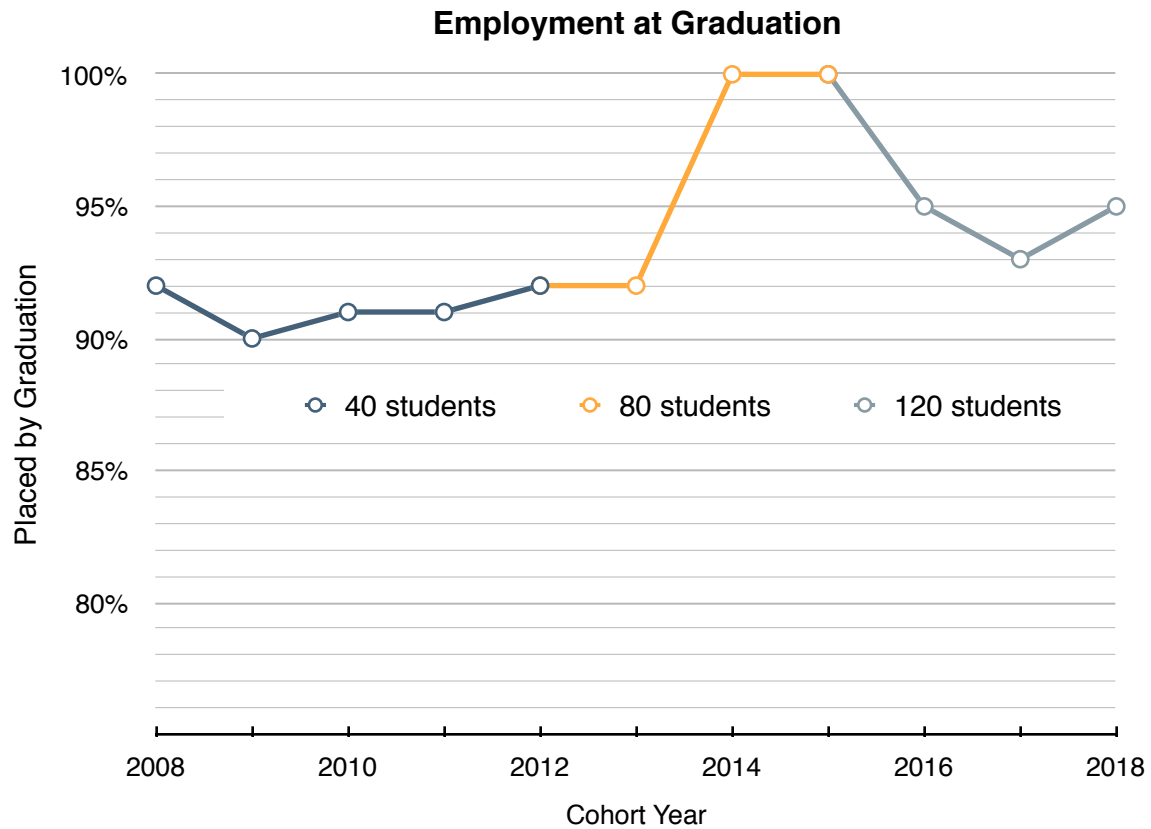


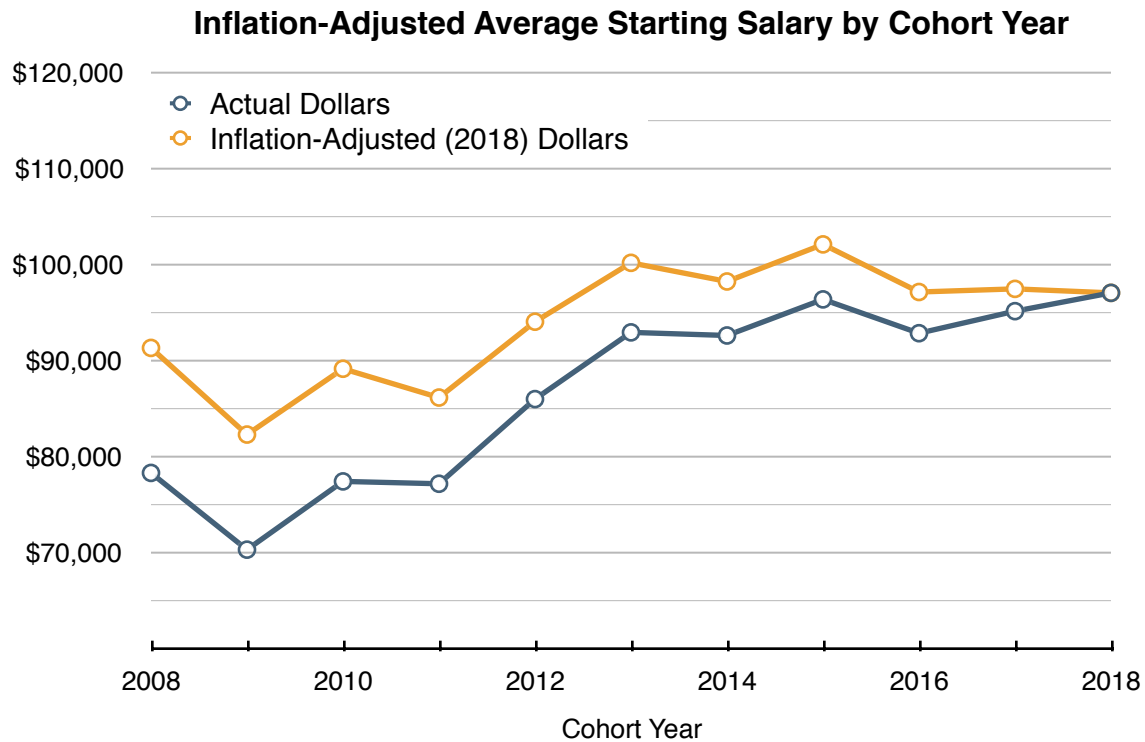
COMPENSATION BY AGE AND GENDER

	ANNUAL BASE SALARY					
	All	Age Brackets			Gender	
		20–24	25–29	30+	Men	Women
Mean	\$98,200	\$91,900	\$100,500	\$105,600	\$98,000	\$98,400
Maximum	\$145,000	\$121,500	\$125,000	\$145,000	\$145,000	\$125,000
75th Percentile	\$106,250	\$97,500	\$110,000	\$116,500	\$105,000	\$110,000
Median	\$95,000	\$90,000	\$100,000	\$100,000	\$95,000	\$97,000
25th Percentile	\$87,500	\$85,000	\$90,000	\$94,400	\$88,000	\$87,500
Minimum	\$72,500	\$72,500	\$76,000	\$85,000	\$80,000	\$72,500
N	100	39	41	20	54	46

COMPENSATION BY MAJOR POSITION CATEGORIES

	ANNUAL BASE SALARY				
	All	Data Scientist	Analyst	Consultant	Manager
Mean	\$98,200	\$108,400	\$92,300	\$92,300	*
Maximum	\$145,000	\$145,000	\$115,000	\$125,000	*
75th Percentile	\$106,250	\$120,000	\$96,250	\$103,500	*
Median	\$95,000	\$112,000	\$90,000	\$87,500	*
25th Percentile	\$87,500	\$98,000	\$88,000	\$80,000	*
Minimum	\$72,500	\$85,000	\$76,000	\$72,500	*
N	100	33	32	31	3





EMPLOYMENT BY RESIDENCY STATUS PRIOR TO ADMISSION

	Number of Candidates Employed		Subtotal
	Inside North Carolina	Outside North Carolina	
Non-Resident	9	27	36
NC Resident	36	31	67
Subtotal	45	58	103

STUDENT RETURN ON INVESTMENT

	NC Resident	Non-Resident
Number of Respondents	67	36
Pre-MSA Salary Median*	\$60,000	\$60,000
(+) Tuition & Fees	\$26,500	\$46,500
(–) Signing Bonus	\$10,000	\$10,000
Total Investment	\$76,500	\$96,500
Post MSA Salary Median	\$105,000	\$105,000
(–) Pre-MSA Salary	\$60,000	\$60,000
Net Salary Increase	\$45,000	\$45,000
Payback Period (months)	20	26
Net 3-Year ROI	\$145,000	\$145,000
*Based on graduates with full-time employment prior to program entry.		

PAYBACK PERIOD CALCULATION

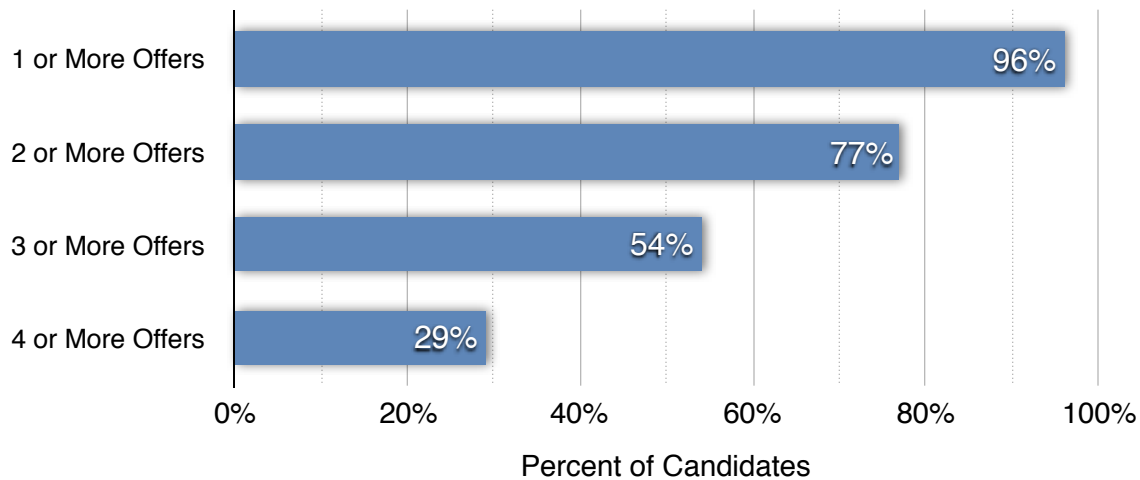
$$\text{Payback Period (in months)} = \frac{(\text{Pre-MSA Salary} + \text{Tuition}) - \text{Signing Bonus}}{\text{Post-MSA Salary} - \text{Pre-MSA Salary}} \times 12$$

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). Sixty-five percent of respondents were NC residents, and 46-percent were employed full-time prior to entry. The median salary increase was \$45,000; all but one respondent reported an increase in salary. The ROI payback period calculated for each of 103 candidates employed by graduation, based on their individual circumstances (residency, tuition, pre- and post-salaries, and signing bonuses), yielded a median payback period of 24 months.

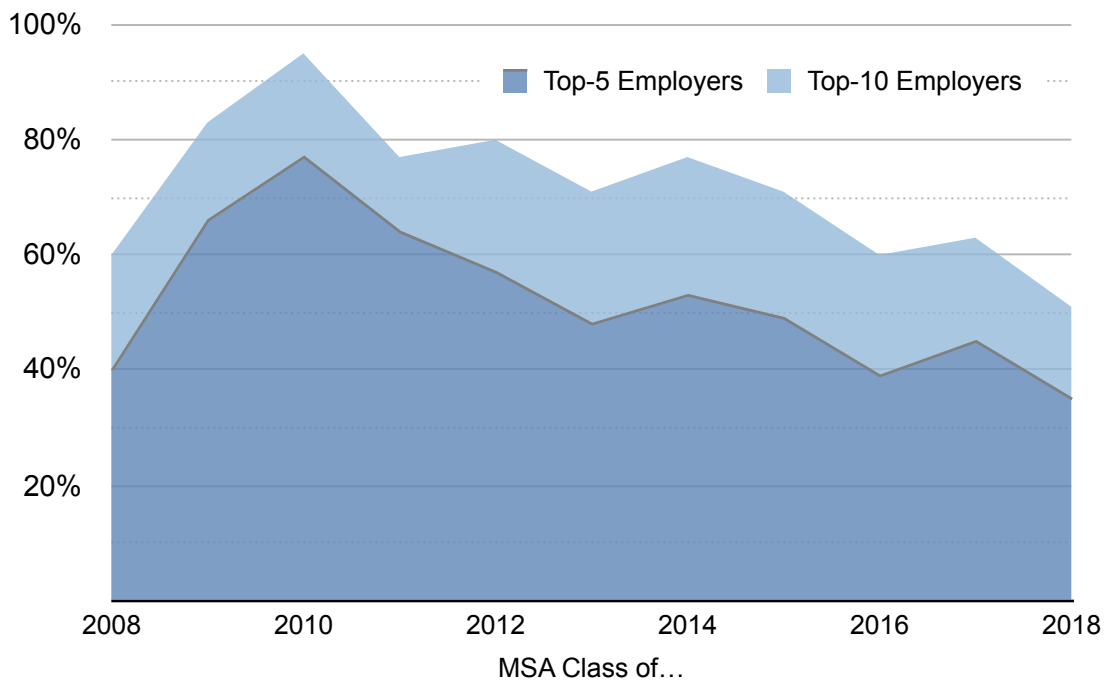
Students are assumed to forgo one-year of earning, even though the MSA program is only 10-months in duration. The average pre-MSA salary is estimated based on those candidates working full-time prior to entry in the program. Pre-MSA salaries ranged from \$25,000 to \$100,000. Candidates without prior work experience are estimated to have foregone an annual salary of \$55,000, which is an estimated based on reported salary data for candidates with 1-2 years of prior work experience.

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



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



RECRUITING TIMETABLE – MSA CLASS OF 2019

New cohort of 115 students arrives in:	June
Basic demographic profile of new cohort published by:	July 1
New student roster available on Institute web site by:	July 15
Employer information sessions hosted beginning first week of:	September
<u>Student Profile Book</u> available on web site by:	October 1
<u>Student Resume Book</u> sent to employers by:	December 1
On-site interviews begin second week of:	January
Student placement decision date before second week of:	March
Graduation date normally in the first week of:	May
<u>Employment Report</u> published on web site by:	June 1
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 completion of the MSA degree.

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, 2018 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/MSA2018.pdf>

<http://analytics.ncsu.edu>

NC STATE UNIVERSITY