

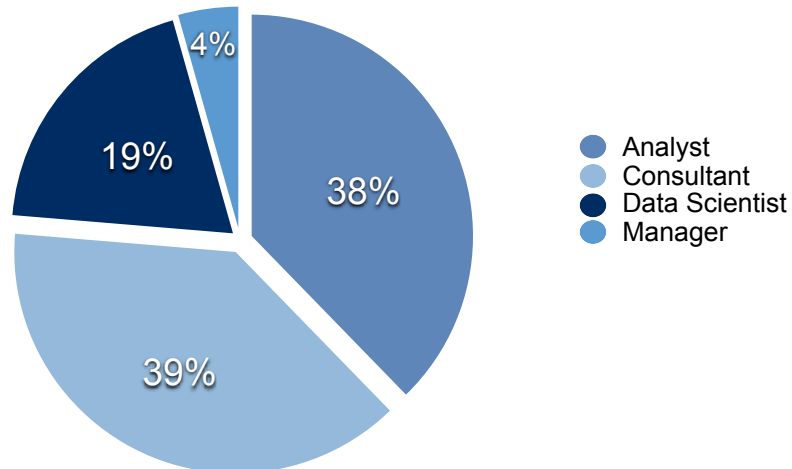
## MASTER OF SCIENCE IN ANALYTICS EMPLOYMENT REPORT – CLASS OF 2017

EMPLOYMENT OUTCOMES SUMMARY	
Number of graduates:	118
Number of graduates seeking new employment:	117
Candidates with one or more offers by graduation:	98%
Candidates placed by graduation:	93%
Number of employers interviewing (number on site):	201 (47)
Median number of initial job interviews per candidate:	11.5
Median number of offers of employment per candidate:	2
Job placements facilitated by the Institute:	94%
Estimated ROI payback period in months:	24
Total number of reported job offers:	291
Job placements based in North Carolina:	43%
Job placements based in U.S.:	99%
Candidates reporting job offer data:	100%
Placement results for Class of 2017 reported as of May 15, 2017.	

## POSITIONS FILLED – MSA CLASS OF 2017

- |   |   |
|---|---|
| <p>Advanced Analytics Specialist<br/>         Analytical Consultant<br/>         Analytics and Marketing Senior Analyst<br/>         Analytics and Modeling Manager<br/>         Analytics and Modeling Senior Analyst<br/>         Analytics Consultant<br/>         Applications Analyst<br/>         Associate Consultant (4)<br/>         Associate Data and Analytics Consultant<br/>         Card Services Balance Build Account Manager<br/>         Consultant (4)<br/>         Credit Card Decision and Strategy Support Product Manager<br/>         Data Management &amp; Architecture Consultant<br/>         Data Scientist (22)<br/>         Decision Analytics Associate<br/>         Decision Platform Development Manager<br/>         GIS Analyst/Consultant<br/>         Hosting Technical Account Manager<br/>         Industrial Consultant<br/>         Informatics/Analytics Senior Specialist<br/>         Lead Analyst (2)<br/>         Lead Analyst - Wealth and Asset Management<br/>         Lead Business Intelligence Analyst<br/>         Lead Marketing Analyst (4)<br/>         Load Forecasting Analyst</p> | <p>Marketing Optimization Associate<br/>         Marketing Optimization Senior Associate<br/>         Product Analyst<br/>         Product Support Specialist<br/>         Quantitative Analyst – Centralized Modeling<br/>         Quantitative Analyst – Credit Risk (2)<br/>         Quantitative Risk Analyst (3)<br/>         Risk Analyst (3)<br/>         Senior Analytics Consultant<br/>         Senior Analytics/Informatics Specialist<br/>         Senior Associate<br/>         Senior Associate – Business Analytics and Insights (10)<br/>         Senior Associate Analytical Consultant (10)<br/>         Senior Associate Analytical Software Tester (2)<br/>         Senior Associate Solution Consultant<br/>         Senior Associate Solution Specialist (2)<br/>         Senior Consultant (3)<br/>         Senior Data Analyst (2)<br/>         Senior Financial Analyst (2)<br/>         Senior Insights Analyst<br/>         Senior Marketing Analyst<br/>         Senior Marketing Insights Analyst<br/>         Senior Model Validation Analyst<br/>         Staff Consultant (3)<br/>         Validation Analyst</p> |
|---|---|

### MAJOR TYPES OF POSITIONS MSA CLASS OF 2017



## COMPENSATION – MSA CLASS OF 2017

	ANNUAL BASE SALARY				SIGNING BONUS
	Total	Prior Work Experience			
		None	1-2 Years	3+ Years	
Mean	\$95,100	\$90,200	\$93,900	\$101,700	\$9,150
Median	\$91,000	\$90,000	\$92,000	\$100,000	\$7,500
75th Percentile	\$100,000	\$94,000	\$99,000	\$110,000	\$14,000
25th Percentile	\$87,500	\$85,000	\$87,750	\$91,000	\$5,000
Maximum	\$140,000	\$108,000	\$110,000	\$140,000	\$25,000
Minimum	\$70,000	\$70,000	\$80,000	\$84,000	\$2,500
N	107	51	15	41	76
% Reporting	100%	48%	14%	38%	71%

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 returned to a sponsoring employer. Two graduates were international Fulbright Scholars and required to return to their home countries; one secured employment at home, and one will remain temporarily in the U.S. as a Fulbright employed in a paid internship 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. Conditional job offers (i.e., those requiring security clearance prior to employment) or other public sector employment are not included in the 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 of 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  
MSA CLASS OF 2017**

ABB (Raleigh, NC)	<b>INC Research</b> (Raleigh, NC)
<b>Accenture</b> (Washington, DC)	<b>Interworks</b> (New York, NY)
<b>Adobe</b> (San Jose, CA)	<b>Jack in the Box</b> (San Diego, CA)
<b>Ally Financial</b> (Charlotte, NC)	Jacksonville Jaguars (Jacksonville, FL)
<b>Ankura Consulting</b> (Washington, DC)	<b>JP Morgan Chase</b> (Columbus, OH)
ASR Analytics (Potomac, MD)	<b>KeyBank</b> (Buffalo, NY)
<b>Bain &amp; Company</b> (Washington, DC)	<b>KPMG</b> (Santa Clara, CA)
Bank of America (Charlotte, NC)	<b>Lash Group–AmerisourceBergen</b> (Ft. Mill, SC)
BeerBoard (Syracuse, NY)	<b>Leoforce</b> (Raleigh, NC)
<b>Beghou Consulting</b> (Durham, NC)	LPL Financial (Fort Mill, SC)
<b>Carolina Biological Supply</b> (NC)	<b>M&amp;T Bank</b> (Buffalo, NY)
Certona (San Diego, CA)	<b>Mercado Libre</b> (Buenos Aires, Argentina)
<b>Chick-fil-A</b> (Atlanta, GA)	Merkle (New York, NY)
<b>Cigna</b> (Raleigh, NC)	<b>NetApp</b> (Durham, NC)
Citadel (Chicago, IL)	Northrop Grumman (Washington, DC)
<b>Cognizant</b> (multiple locations)	<b>Prime Therapeutics</b> (Minneapolis, MN)
<b>Community Care of NC</b> (Raleigh, NC)	<b>Red Hat</b> (Raleigh, NC)
Conclusive Analytics (Charlotte, NC)	Red Ventures (Fort Mill, SC)
Cystic Fibrosis Foundation (Raleigh, NC)	<b>Rho</b> (Chapel Hill, NC)
Deloitte (Charlotte, NC)	<b>RTI International</b> (RTP, NC)
Disney (Orlando, FL)	<b>SAP</b> (San Francisco, CA)
Elder Research (Charlottesville, VA)	<b>SAS</b> (Cary, NC)
<b>Elevate</b> (Ft. Worth, TX; San Diego, CA)	Teradata (San Diego, CA)
Eli Lilly (Indianapolis, IN)	<b>The Home Depot</b> (Atlanta, GA)
<b>ERCOT</b> (Taylor, TX)	TIAA (Charlotte, NC)
Evaluserve (Raleigh, NC)	TrueFit (Boston, MA)
<b>EY</b> (Charlotte, NC; New York, NY, Washington, DC)	Uffect (Falls Church, VA)
<b>Facebook</b> (Palo Alto, CA)	Veyo Logistics (San Diego, CA)
<b>Fifth Third Bank</b> (Cincinnati, OH)	<b>Visionist</b> (Columbia, MD)
<b>Financial Risk Group</b> (Cary, NC)	Volvo (Hagerstown, MD)
GEICO (Washington, DC)	<b>Wake Forest Baptist Medical Center</b> (Winston-Salem, NC)
Gramener (South Plainfield, NJ)	<b>Zencos</b> (Cary, NC)
Harvard Pilgrim Health (Wellesley, MA)	<b>ZS Associates</b> (Philadelphia, PA)
Humana (Chicago, IL)	
ICON (Dallas, TX)	

**Bold** = employers that succeeded in hiring one or more candidates.  
*List does not include agencies of the federal government.*

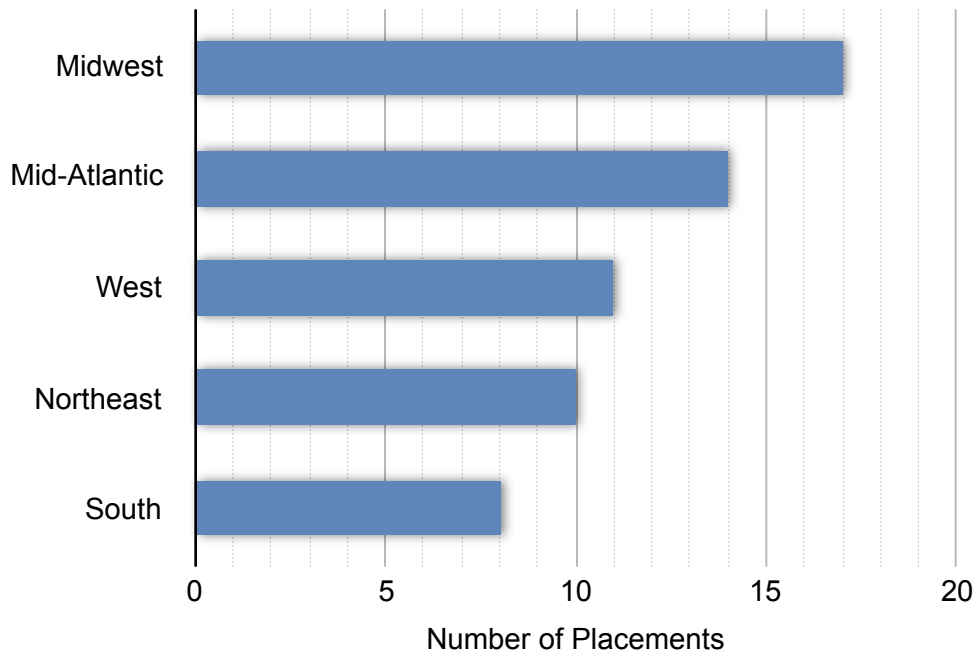
### COMPENSATION BY GEOGRAPHIC REGION – MSA CLASS OF 2017

	ANNUAL BASE SALARY				
	North Carolina	Geographic Region Outside North Carolina			
		South	Northeast	Mid-Atlantic	Midwest / West
Mean	\$92,300	\$90,400	\$92,750	\$98,600	\$100,800
Median	\$90,000	\$95,000	\$92,000	\$98,500	\$105,000
75th Percentile	\$98,000	\$95,000	\$94,600	\$104,000	\$108,000
25th Percentile	\$87,500	\$88,750	\$90,000	\$87,000	\$90,000
Maximum	\$125,000	\$98,000	\$110,000	\$140,000	\$126,000
Minimum	\$75,000	\$70,000	\$85,000	\$80,000	\$84,000
N	47	8	10	14	27

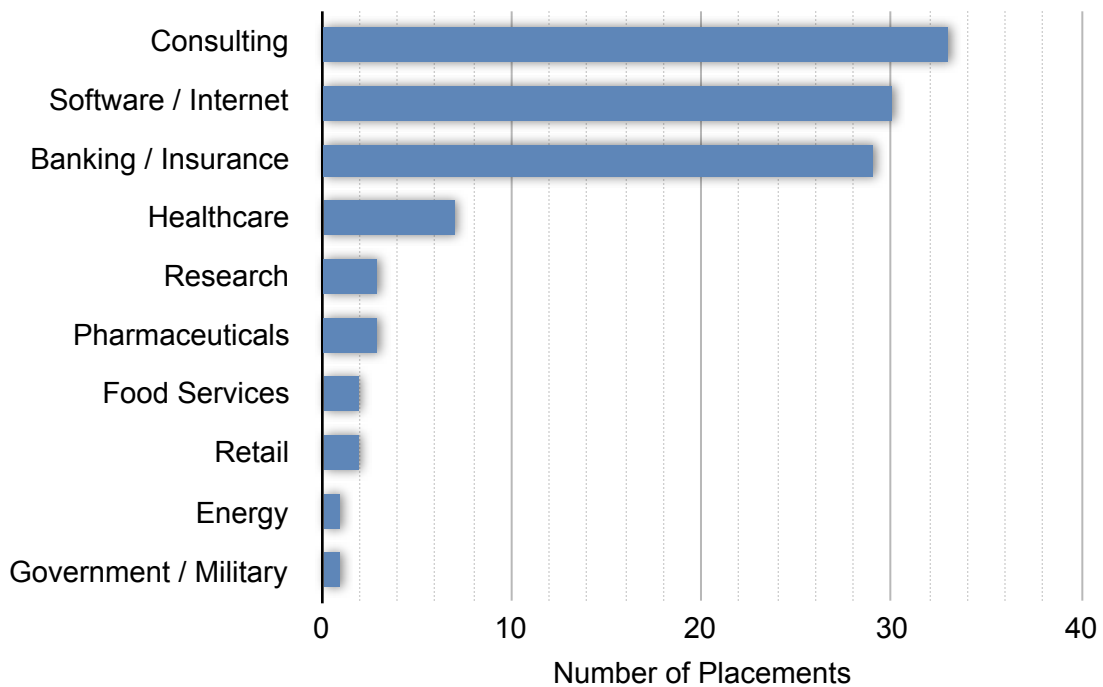
### COMPENSATION BY INDUSTRY SECTOR – MSA CLASS OF 2017

	ANNUAL BASE SALARY			
	Consulting	Banking / Insurance	Software / Internet	Other
Mean	\$92,900	\$101,100	\$93,700	\$91,600
Median	\$90,000	\$100,000	\$90,000	\$90,000
75th Percentile	\$97,000	\$105,000	\$94,750	\$98,000
25th Percentile	\$85,000	\$95,000	\$87,500	\$84,000
Maximum	\$140,000	\$120,000	\$126,000	\$125,000
Minimum	\$75,000	\$90,000	\$85,000	\$70,000
N	33	29	28	17

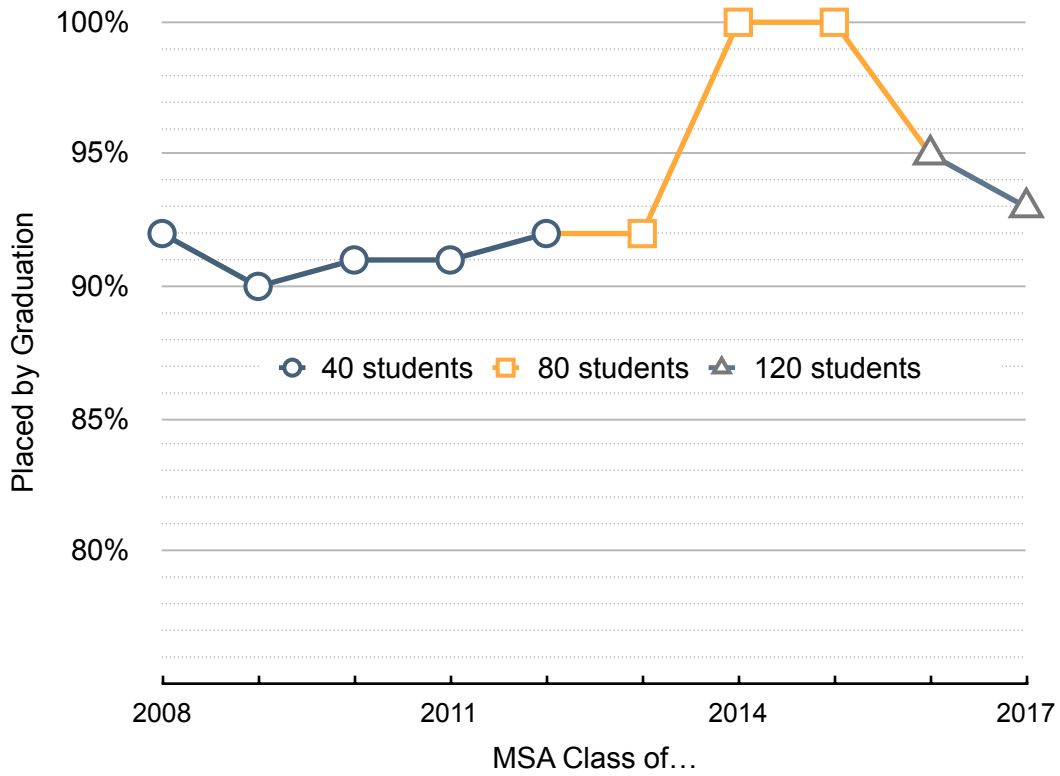
### DISTRIBUTION OF EMPLOYMENT OUTSIDE NORTH CAROLINA BY REGION – CLASS OF 2017



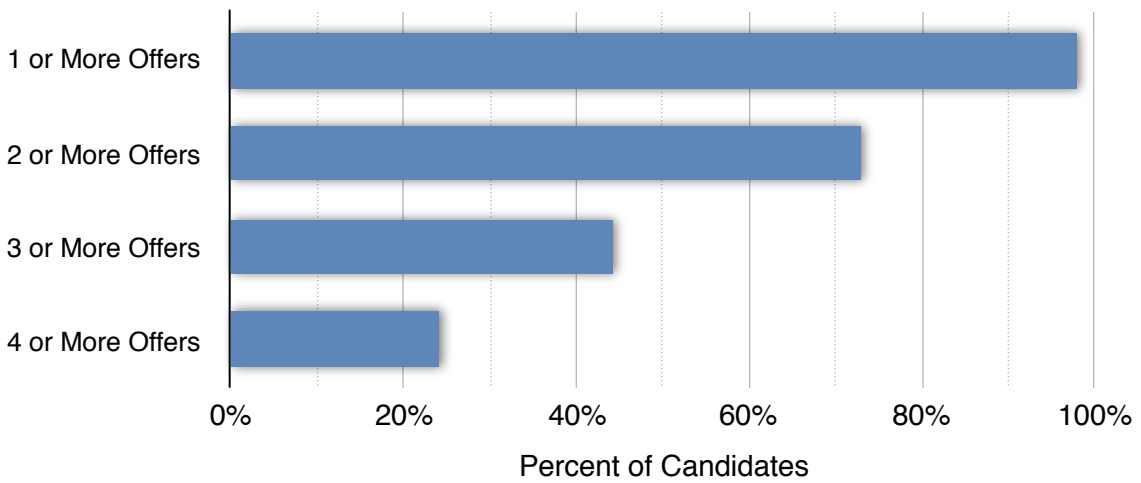
### DISTRIBUTION OF EMPLOYMENT BY INDUSTRY SECTOR – CLASS OF 2017



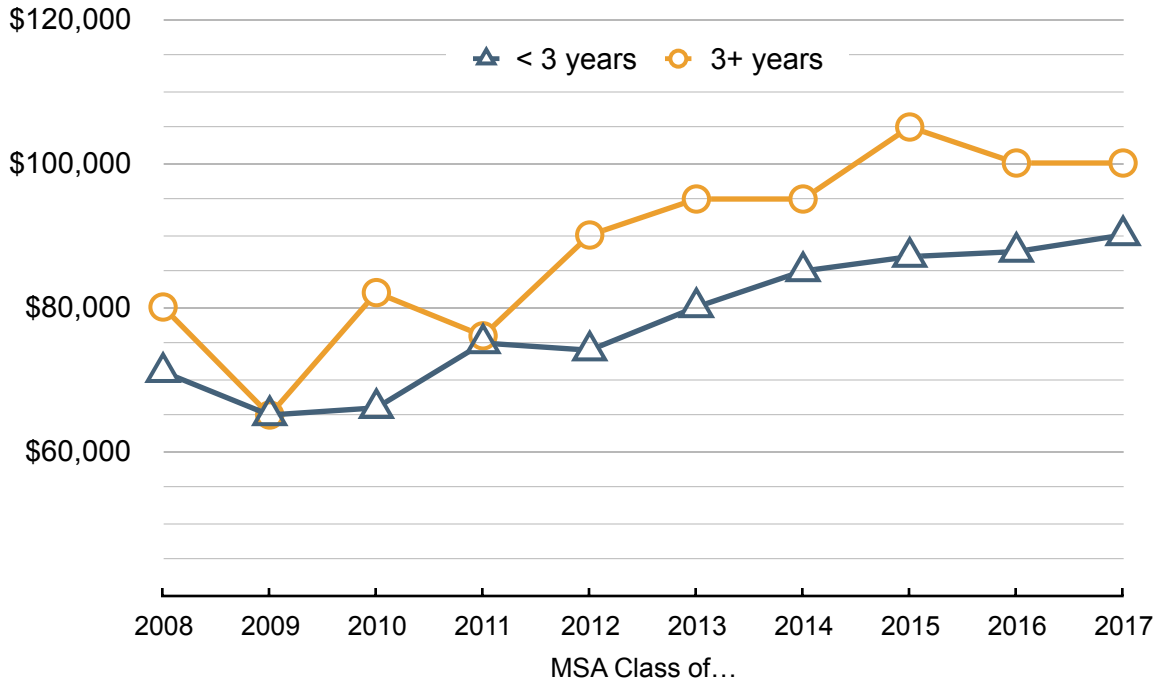
**HISTORICAL TREND IN JOB PLACEMENT RATE  
MSA CLASSES OF 2008 – 2017**



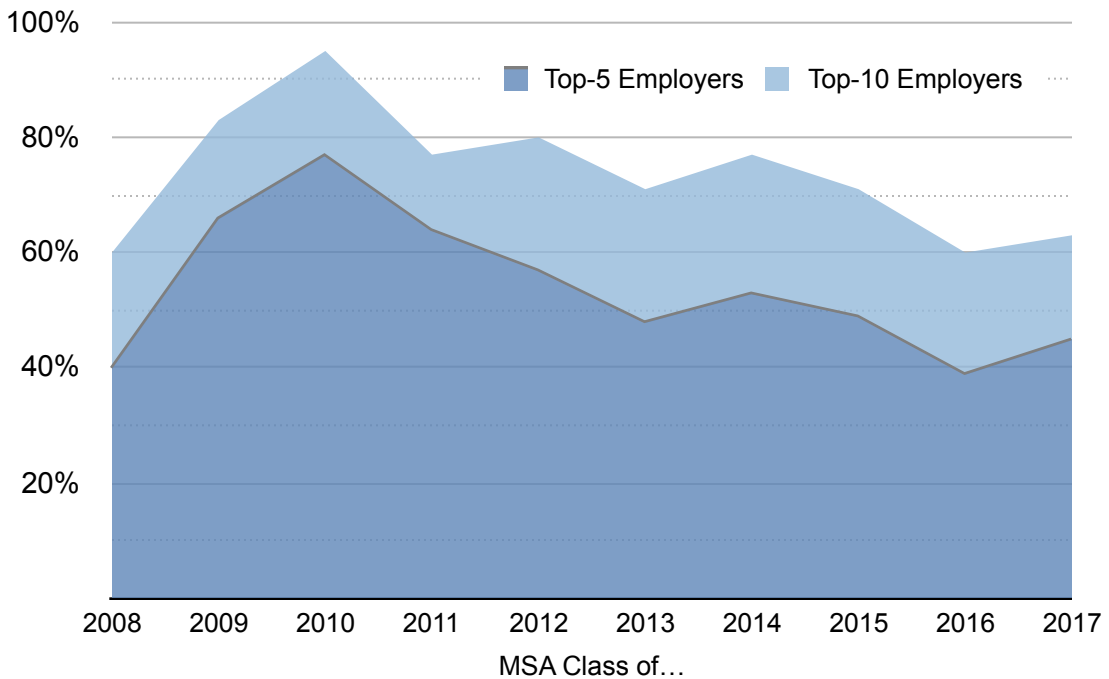
**NUMBER OF JOB OFFERS RECEIVED BY GRADUATION  
MSA CLASS OF 2017**



### HISTORICAL TREND IN MEDIAN BASE STARTING SALARY BY LEVEL OF PRIOR WORK EXPERIENCE

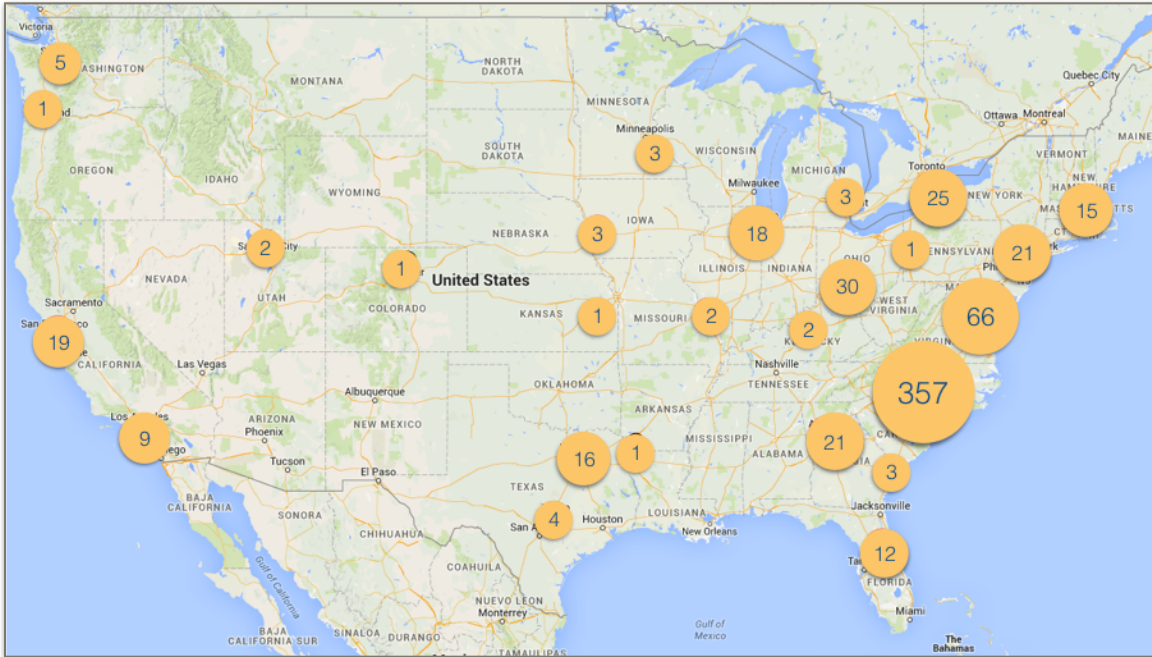


### HISTORICAL TREND IN PLACEMENT CONCENTRATION AMONG THE TOP-5 AND TOP-10 EMPLOYERS





**GEOGRAPHIC DISTRIBUTION OF EMPLOYMENT OF  
U.S.-BASED MSA ALUMNI (n=643)**



Note: 98% of the MSA alumni community is employed in the U.S.

**EMPLOYMENT BY RESIDENCY STATUS PRIOR TO ADMISSION  
MSA CLASS OF 2017**

	Number of Candidates Placed		Subtotal
	Inside North Carolina	Outside North Carolina	
Non-Resident	12	32	44
NC Resident	36	30	66
<b>Subtotal</b>	<b>48</b>	<b>62</b>	<b>110</b>

Includes candidates returning to a previous employer.

## STUDENT RETURN ON INVESTMENT – MSA CLASS OF 2016

	NC Resident	Non-Resident
Number of Respondents	66	41
Pre-MSA Salary Median*	\$50,000	\$50,000
(+) Tuition & Fees	\$26,000	\$44,500
(-) Signing Bonus	\$7,500	\$7,500
Total Investment	\$68,500	\$87,000
Post MSA Salary Median	\$90,000	\$95,000
(-) Pre-MSA Salary	\$50,000	\$50,000
Net Salary Increase	\$40,000	\$45,000
Payback Period (months)	21	23
Net 3-Year ROI	\$127,500	\$142,500
*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-two percent of respondents were NC residents, and 52-percent were employed full-time prior to entry. The median salary increase was \$39,480; all but one respondent reported an increase in salary. The ROI payback period calculated for each of 107 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 \$30,000 to \$147,000. Candidates without prior work experience are estimated to have foregone an annual salary of \$49,250, 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. Thirty-seven percent of students took on debt to pay tuition, borrowing a median of \$28,870. The average ratio of starting base salary to debt was 3:1.

## RECRUITING TIMETABLE – MSA CLASS OF 2018

New cohort of 120 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
<b><u>Student Profile Book</u></b> available on web site by:	October 1
<b><u>Student Resume Book</u></b> 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
<b><u>Employment Report</u></b> 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.

Source URL: <http://analytics.ncsu.edu/reports/employment/MSA2017.pdf>

<http://analytics.ncsu.edu>

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