

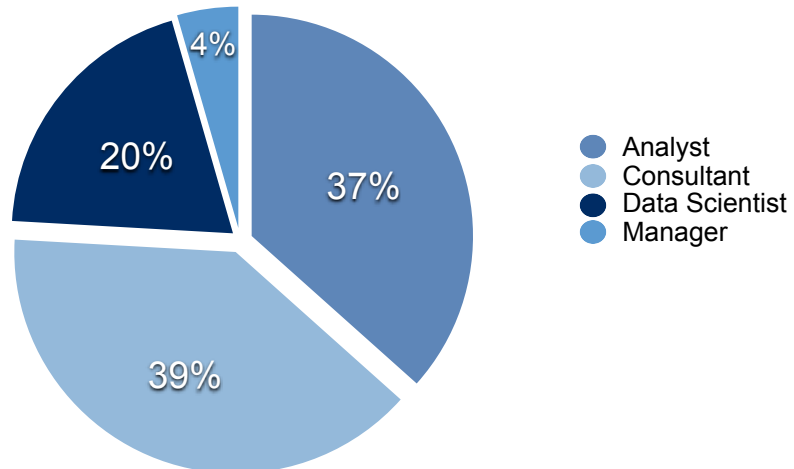
MASTER OF SCIENCE IN ANALYTICS EMPLOYMENT REPORT – CLASS OF 2017

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 Analytical Consultant Analytics and Marketing Senior Analyst Analytics and Modeling Manager Analytics and Modeling Senior Analyst Analytics Consultant Associate Consultant (4) Associate Data and Analytics Consultant Card Services Balance Build Account Manager Consultant (4) Credit Card Decision and Strategy Support Product Manager Data Management & Architecture Consultant Data Scientist (22) Decision Analytics Associate Decision Platform Development Manager GIS Analyst/Consultant Hosting Technical Account Manager Industrial Consultant Informatics/Analytics Senior Specialist Lead Analyst (2) Lead Analyst - Wealth and Asset Management Lead Business Intelligence Analyst Lead Marketing Analyst (4) Load Forecasting Analyst</p>	<p>Marketing Optimization Associate Marketing Optimization Senior Associate Product Analyst Product Support Specialist Quantitative Analyst – Centralized Modeling Quantitative Analyst – Credit Risk (2) Quantitative Risk Analyst (3) Risk Analyst (3) Senior Analytics Consultant Senior Analytics/Informatics Specialist Senior Associate Senior Associate – Business Analytics and Insights (10) Senior Associate Analytical Consultant (10) Senior Associate Analytical Software Tester (2) Senior Associate Solution Consultant Senior Associate Solution Specialist (2) Senior Consultant (3) Senior Data Analyst (2) Senior Financial Analyst (2) Senior Marketing Analyst Senior Marketing Insights Analyst Senior Model Validation Analyst Staff Consultant (3) Validation Analyst</p>
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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 in 2017 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 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
MSA CLASS OF 2017**

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

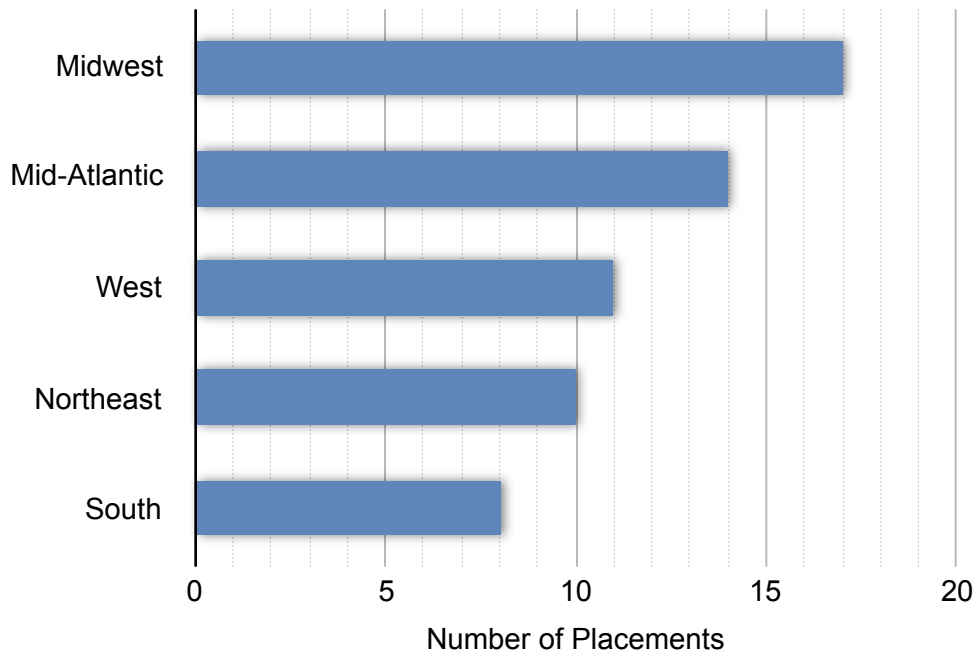
COMPENSATION BY GEOGRAPHIC REGION – MSA CLASS OF 2017

	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

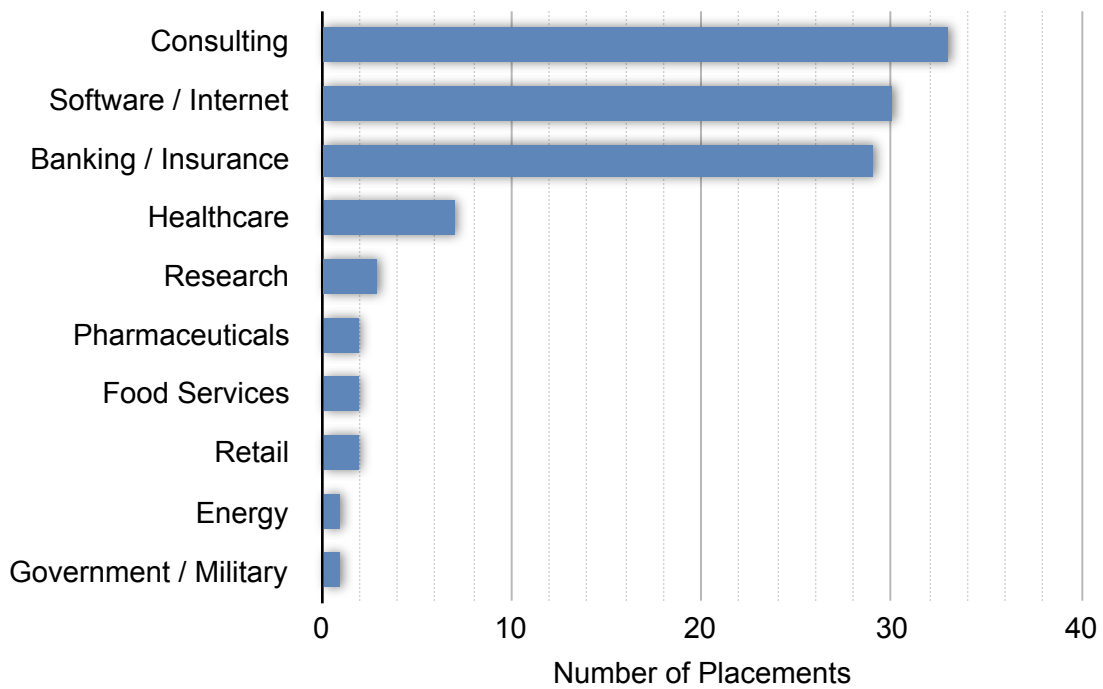
COMPENSATION BY INDUSTRY SECTOR – MSA CLASS OF 2017

	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

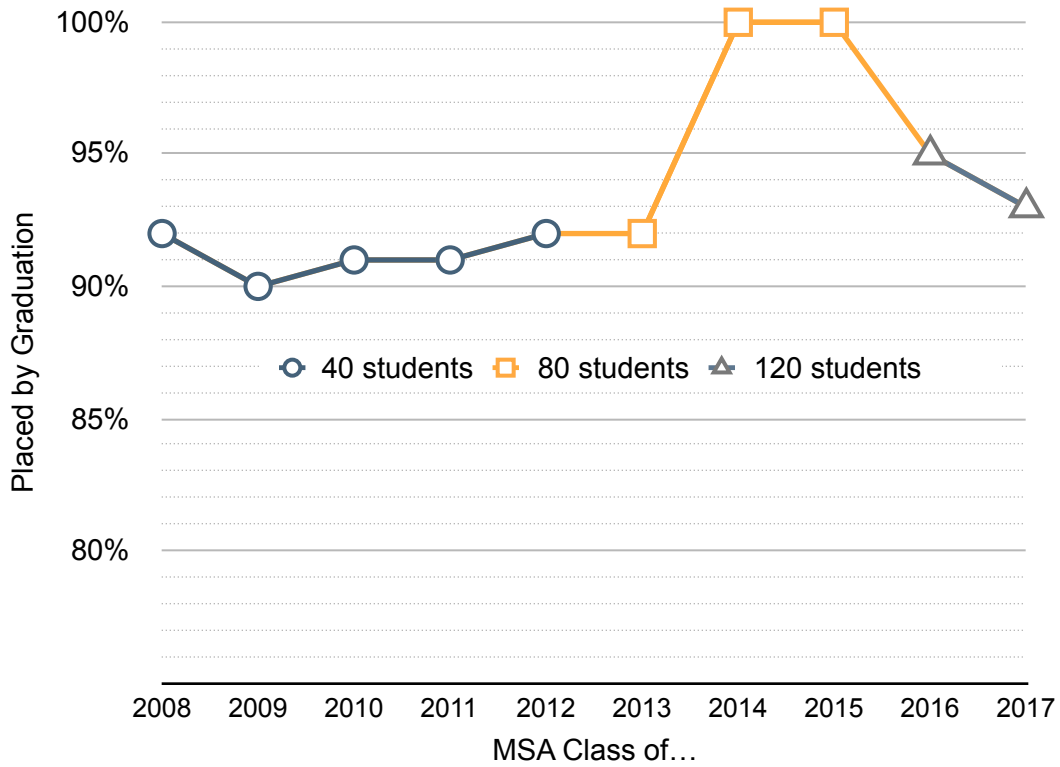
DISTRIBUTION OF EMPLOYMENT OUTSIDE NORTH CAROLINA BY REGION – CLASS OF 2017



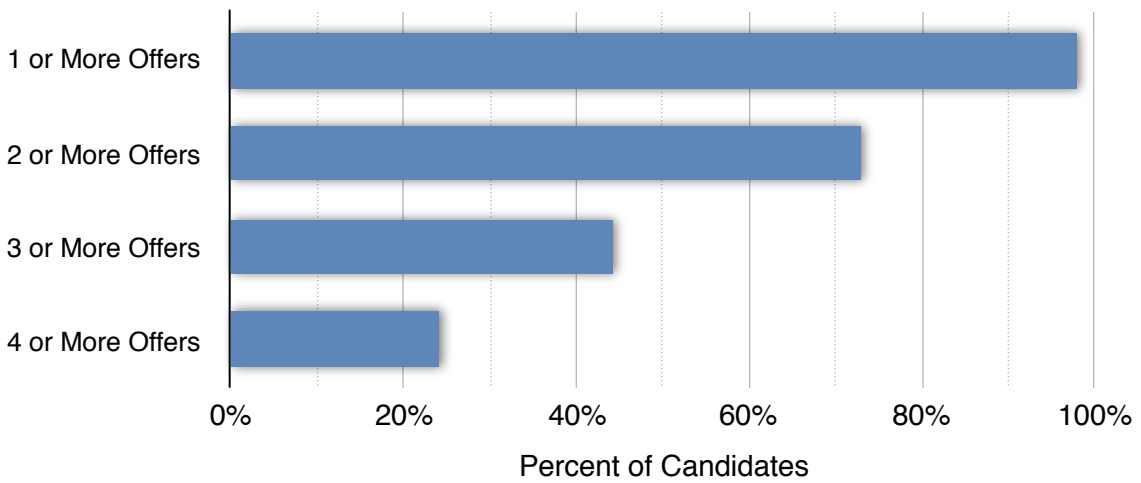
DISTRIBUTION OF EMPLOYMENT BY INDUSTRY SECTOR – CLASS OF 2017



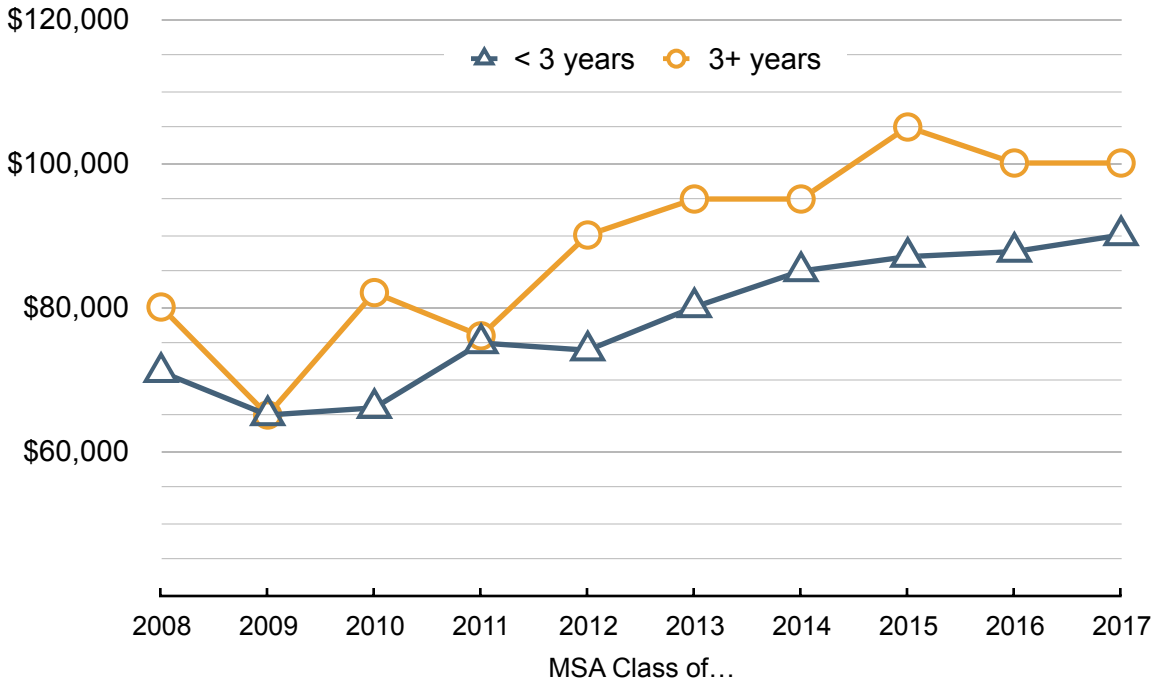
**HISTORICAL TREND IN JOB PLACEMENT RATE
MSA CLASSES OF 2008 – 2017**



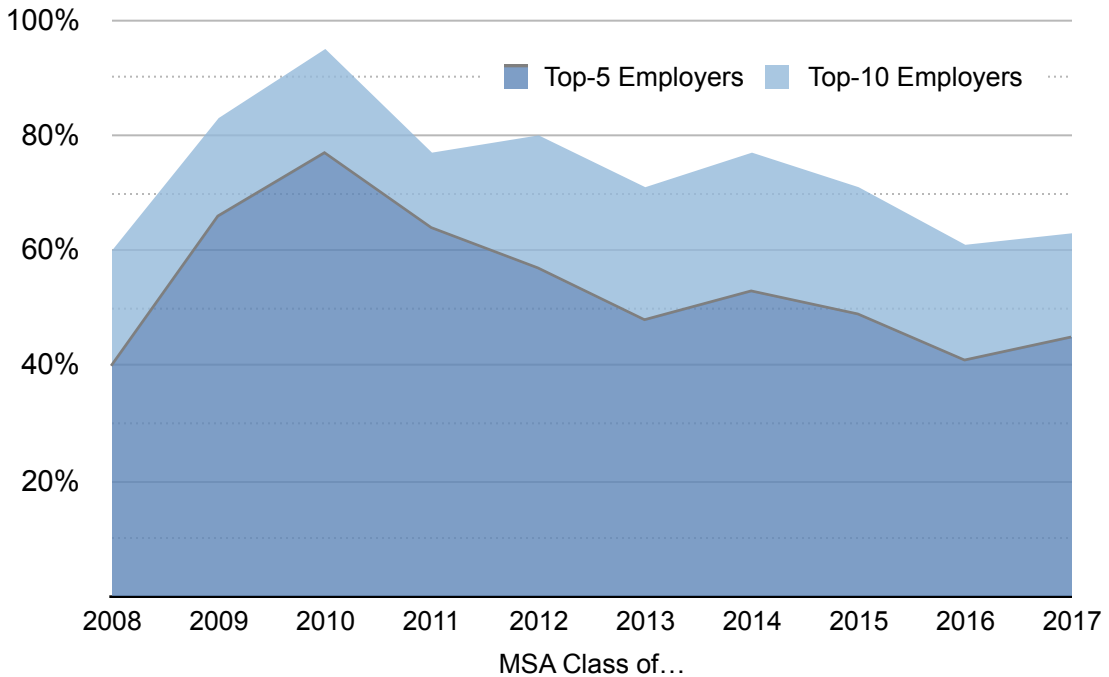
**NUMBER OF JOB OFFERS RECEIVED BY GRADUATION
MSA CLASS OF 2017**



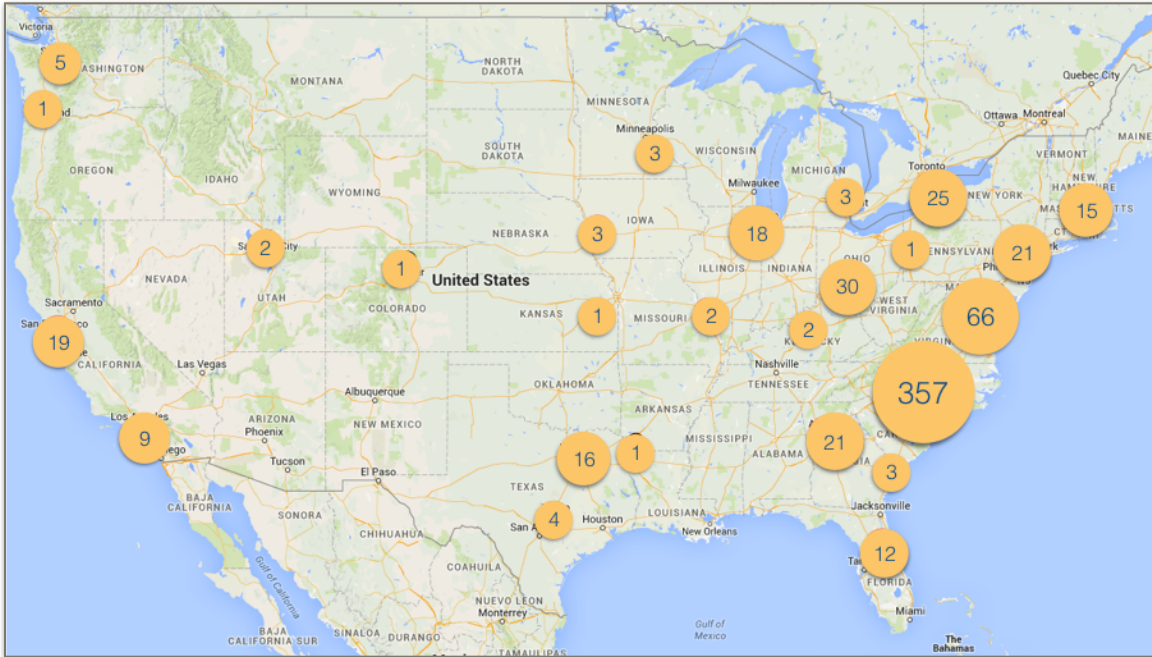
HISTORICAL TREND IN MEDIAN BASE STARTING SALARY BY LEVEL OF PRIOR WORK EXPERIENCE



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
Subtotal	48	62	110

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
<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

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

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