

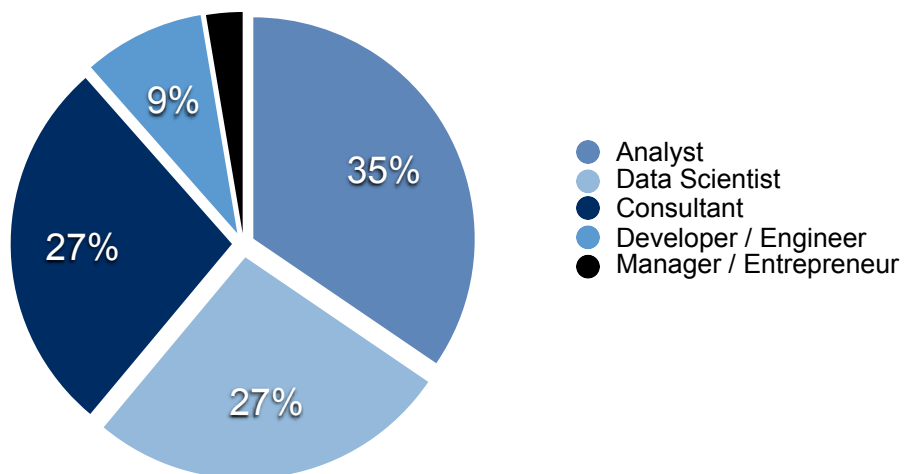
MASTER OF SCIENCE IN ANALYTICS EMPLOYMENT REPORT – CLASS OF 2016

EMPLOYMENT OUTCOMES SUMMARY	
Number of graduates:	113
Number of graduates seeking new employment:	109
Candidates with one or more offers by graduation:	99%
Candidates placed by graduation:	95%
Number of employers interviewing (on site):	166 (43)
Median number of initial job interviews per candidate:	10
Median number of offers of employment per candidate:	2
Job placements facilitated by the Institute:	90%
Estimated ROI payback period in months:	22
Total number of reported job offers:	280
Job placements based in North Carolina:	44%
Job placements based in U.S.:	100%
Candidates reporting job offer data:	99%
Placement results for Class of 2016 reported as of May 15, 2016.	

POSITIONS FILLED – MSA CLASS OF 2016

Advanced Analytics Data Scientist	Quantitative Finance Analyst (2)
Analyst, Product Analytics	Quantitative Risk Analyst (4)
Analytic Methodologist	Risk Analyst
Analytics Consultant	Senior Analyst Risk Consultant
Analytics Professional	Senior Analyst, Direct to Consumer
Associate Consultant	Senior Analyst, Supply Chain (2)
Associate Data Scientist (2)	Senior Analyst, Supply Chain Development
Business Data Scientist (3)	Senior Analytics Consultant
Clinical & Business Intelligence Developer	Senior Associate Analytical Consultant (7)
Co-Founder	Senior Associate Analytical Systems Eng. (5)
Consultant (6)	Senior Associate Technical Consultant (2)
Data Scientist (20)	Senior Associate, Marketing Optimization (2)
Data Scientist Analyst (2)	Senior Consultant (4)
Digital Analyst	Senior Data Analyst
Engineer (3)	Senior Data Analyst, Supply Chain
Experienced Associate	Senior Data Scientist
Finance Associate	Senior Enterprise Intelligence Analyst
Forecasting Analyst	Senior Financial Analyst (3)
Industry Consultant	Senior Informatics Analyst (2)
Informatics Analyst (2)	Senior Quantitative Finance Analyst
Integration Consultant	Senior Statistical Analyst
Manager, Consumer/Guest Research Analysis	Specialist, Global Advanced Analytics
Marketing Analytics Analyst	Solutions Specialist
Marketing Optimization Associate	Staff Consultant (3)
Model Risk Analytics Analyst	Technical Account Manager
Operations Research / Systems Analyst	Technical Architect
Operations Research Analyst	Technology Consultant
Quality Analyst	

MAJOR TYPES OF POSITIONS MSA CLASS OF 2016



COMPENSATION – MSA CLASS OF 2016

	ANNUAL BASE SALARY				SIGNING BONUS
	Total	Prior Work Experience			
		None	1-2 Years	3+ Years	
Mean	\$93,250	\$88,600	\$91,300	\$101,200	\$10,500
Median	\$90,000	\$85,000	\$92,000	\$100,000	\$10,000
75th Percentile	\$100,000	\$92,000	\$95,000	\$105,000	\$15,000
25th Percentile	\$85,000	\$85,000	\$85,000	\$91,000	\$5,000
Maximum	\$130,000	\$120,000	\$120,000	\$130,000	\$45,000
Minimum	\$67,000	\$70,000	\$67,000	\$81,000	\$1,500
N	104	49	21	34	81
% Reporting	100%	47%	20%	33%	78%

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). Four graduates in 2016 did not seek new employment: all returned to a sponsoring employer. Student job placements are full-time paid positions without exception; the Institute does not place students in part-time, internship, or pro bono work. 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 2016

Abercrombie & Fitch (Columbus, OH)	InterWorks (Omaha, NE)
Accenture (Washington, DC)	JP Morgan Chase (Columbus, OH)
Advanced Auto Parts (Raleigh, NC)	Liberty Healthcare (Raleigh, NC)
Ankura Consulting (Washington, DC)	Liberty Mutual (Boston, MA)
B2W (Cambridge, MA)	Lowe's Companies (Mooresville, NC)
Bank of America (Charlotte, NC)	M&T Bank (Buffalo, NY)
BB&T (Winston-Salem, NC)	Magnify Analytics (Detroit, MI)
Blue Cross Blue Shield NC (Durham, NC)	Marriott International (Bethesda, MD)
Bain & Company (Atlanta, GA)	McKinsey (Boston, MA)
Booz Allen Hamilton (Washington, DC)	MDA Information Sys. (Gaithersburg, MD)
Boston Consulting Group (Boston, MA)	Mission Health (Asheville, NC)
Cargill (Minneapolis, MN)	Monumental Sports Entertainment / Washington Wizards (Washington DC)
Cognizant (Teaneck, NJ)	Nike (Portland, OR)
Community Care of NC (Raleigh, NC)	Northrop Grumman (Melbourne, FL)
Conclusive Analytics (Charlotte, NC)	Pitt County Government, NC
CoreCompete LLC (Durham, NC)	Premier (Charlotte, NC)
Deloitte (Atlanta, GA; Charlotte, NC; Chicago, IL; Dallas, TX)	Progressive Leasing (Salt Lake City, UT)
Disney (Orlando, FL)	Putnam Investments (Boston, MA)
Dollar Tree (Chesapeake, VA)	PwC (McLean, VA)
Elder Research (Washington, DC)	Red Hat (Raleigh, NC)
Elevate (Ft. Worth, TX; San Diego, CA)	RTI International (RTP, NC)
Elicit, LLC (Austin, TX)	SAS (Cary, NC)
EY (Charlotte, NC; New York, NY)	Teradata (San Diego, CA)
Financial Risk Group (Cary, NC)	The J.M. Smucker Company (Orrville, OH)
First Class Technology (Chicago, IL)	United Airlines (Chicago, IL)
Florida Blue (Jacksonville, FL)	Universal Resorts (Orlando, FL)
General Motors (Warren, MI)	US Bank (Charlotte, NC)
Home Depot (Atlanta, GA)	Visionist (Columbia, MD)
Humana (Chicago, IL)	Zencos (Cary, NC)
IBM (Lanham, MD; RTP, NC)	Zions Bank (Salt Lake City, UT)

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

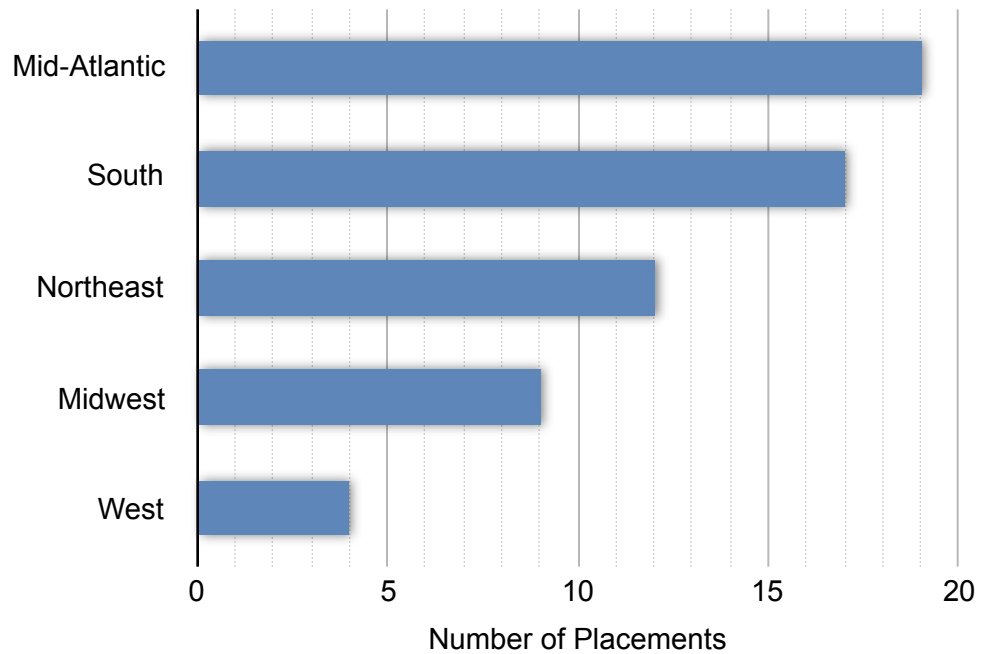
COMPENSATION BY GEOGRAPHIC REGION – MSA CLASS OF 2016

	ANNUAL BASE SALARY				
	North Carolina	Geographic Region Outside North Carolina			
		South	Northeast	Mid-Atlantic	Midwest / West
Mean	\$90,200	\$93,100	\$108,000	\$91,100	\$97,000
Median	\$85,000	\$92,000	\$105,000	\$90,000	\$93,000
75th Percentile	\$95,000	\$95,750	\$120,000	\$100,000	\$105,000
25th Percentile	\$85,000	\$85,300	\$100,500	\$85,000	\$90,000
Maximum	\$130,000	\$125,000	\$125,000	\$102,000	\$110,000
Minimum	\$70,000	\$70,000	\$85,000	\$67,000	\$85,000
N	48	16	10	17	13

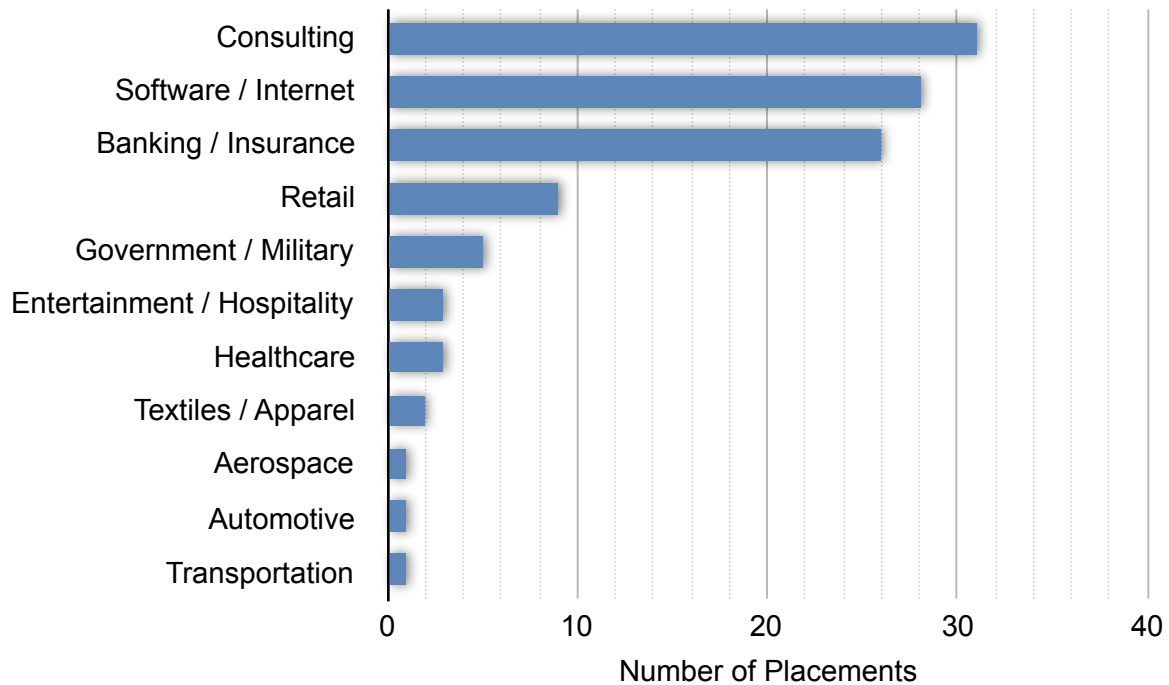
COMPENSATION BY INDUSTRY SECTOR – MSA CLASS OF 2016

	ANNUAL BASE SALARY			
	Consulting	Banking / Insurance	Retail	Software / Internet
Mean	\$89,900	\$101,400	\$93,000	\$90,900
Median	\$90,000	\$102,000	\$92,000	\$87,500
75th Percentile	\$95,500	\$115,000	\$92,000	\$95,000
25th Percentile	\$85,000	\$90,000	\$92,000	\$85,000
Maximum	\$125,000	\$130,000	\$110,000	\$105,000
Minimum	\$70,000	\$80,000	\$85,000	\$85,000
N	31	26	10	28

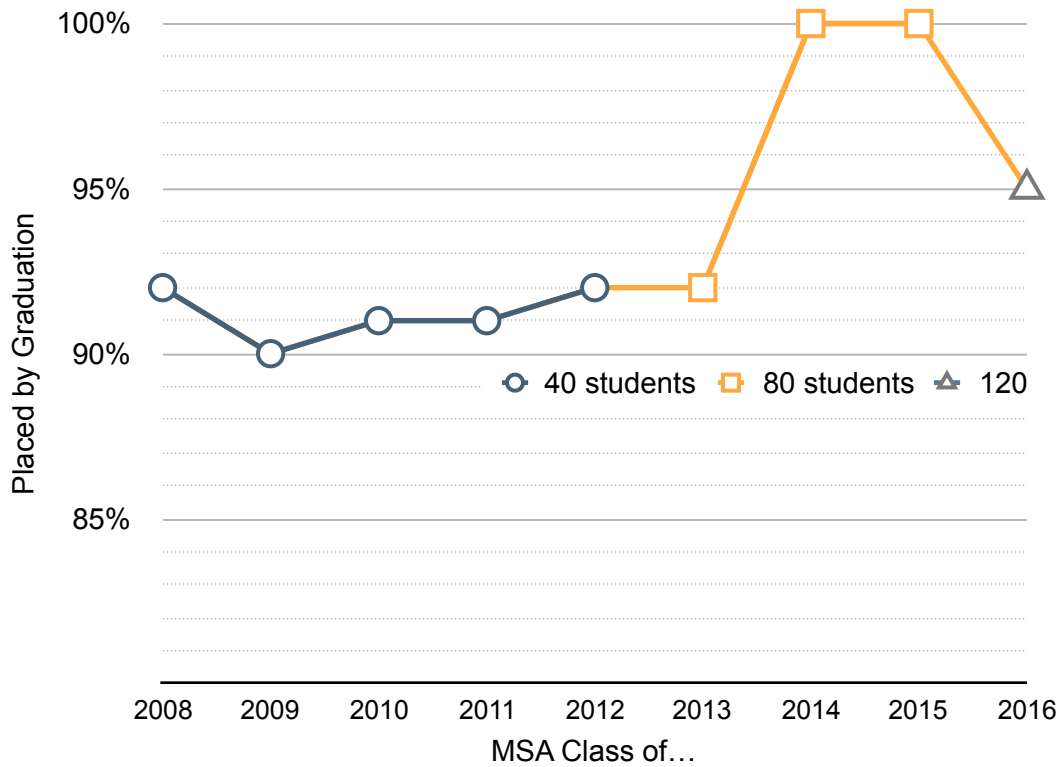
**DISTRIBUTION OF EMPLOYMENT OUTSIDE
NORTH CAROLINA BY REGION – CLASS OF 2016**



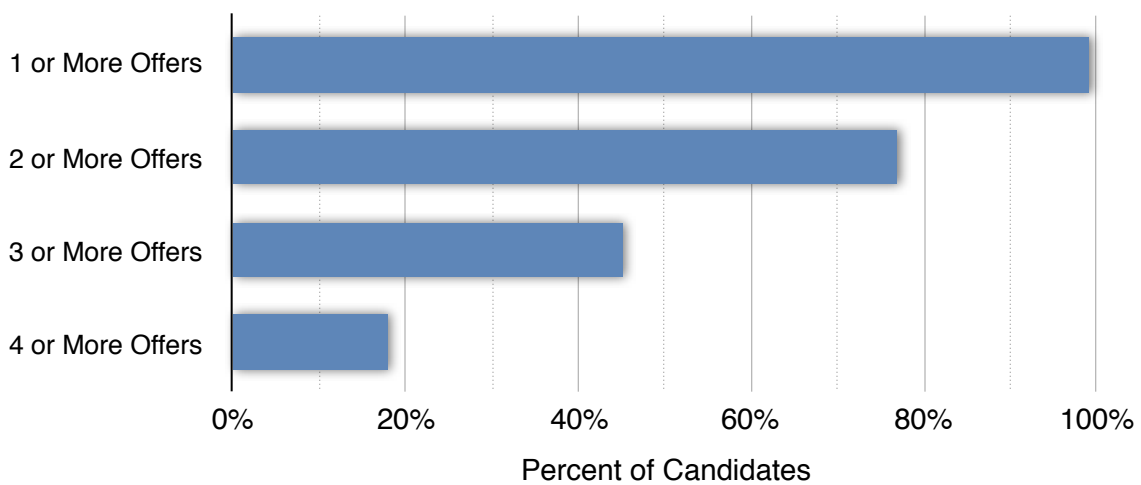
**DISTRIBUTION OF EMPLOYMENT BY INDUSTRY
SECTOR – CLASS OF 2016**



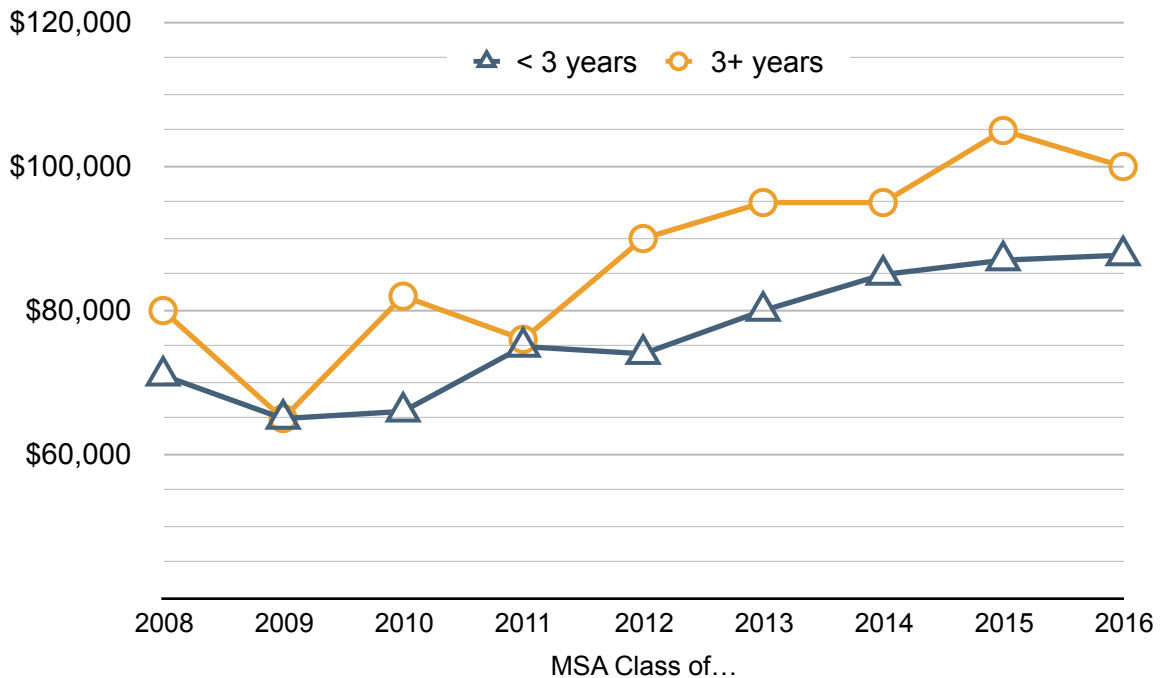
HISTORICAL TREND IN JOB PLACEMENT RATE MSA CLASSES OF 2008 – 2016



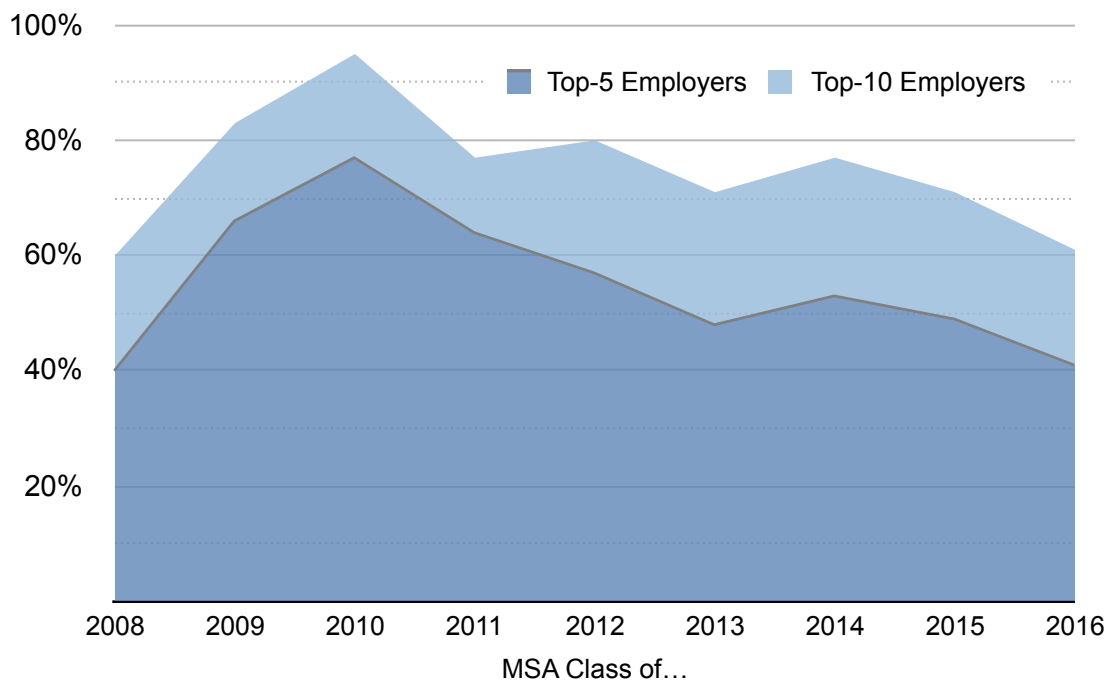
NUMBER OF JOB OFFERS RECEIVED BY GRADUATION MSA CLASS OF 2016



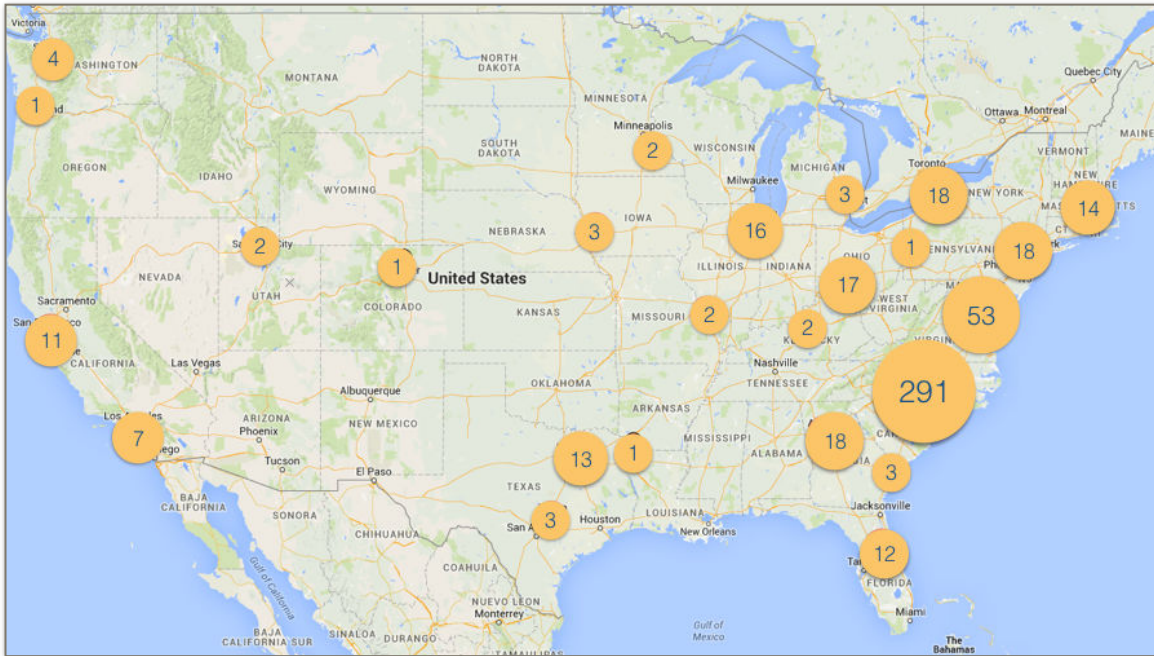
HISTORICAL TREND IN MEDIAN BASE STARTING SALARY BY LEVEL OF PRIOR WORK EXPERIENCE



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



GEOGRAPHIC DISTRIBUTION OF EMPLOYMENT OF U.S.-BASED MSA ALUMNI (N=521)



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

EMPLOYMENT BY RESIDENCY STATUS PRIOR TO ADMISSION MSA CLASS OF 2016

	Number of Candidates Placed		Subtotal
	Inside North Carolina	Outside North Carolina	
Non-Resident	17	39	56
NC Resident	31	22	53
Subtotal	48	61	109

Includes candidates returning to a previous employer.

STUDENT RETURN ON INVESTMENT – MSA CLASS OF 2016

	NC Resident	Non-Resident
Number of Respondents	55	55
Pre-MSA Salary Median*	\$52,000	\$49,500
(+) Tuition & Fees	\$25,000	\$42,850
(–) Signing Bonus	\$9,500	\$10,000
Total Investment	\$67,500	\$82,350
Post MSA Salary Median	\$90,000	\$92,000
(–) Pre-MSA Salary	\$52,000	\$49,500
Net Salary Increase	\$38,000	\$42,500
Payback Period (months)	21	23
Net 3-Year ROI	\$123,500	\$137,500
*Based on graduates with full-time employment prior to program entry.		

PAYBACK PERIOD CALCULATION

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

About the ROI Survey: An anonymous and voluntary survey was conducted over a 5-day period just prior to graduation. The response rate was 97-percent. Respondents provided information about their pre- and post-MSA annual base salaries, signing bonuses, and residency status (which determines tuition payments). Since the cost of attending differs by residency, the analysis is performed for both residents and non-residents separately. Fifty percent of respondents were NC residents, and 62-percent were employed full-time prior to entry. Ninety-five percent of respondents accepted full-time employment prior to graduation. All but one respondent reported an increase in salary after completing the MSA degree.

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 \$20,000 to \$120,000.

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 \$29,500 at a median interest rate of 5.8-percent. The average ratio of starting base salary to debt was 3.1.

RECRUITING TIMETABLE – MSA CLASS OF 2017

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.

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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, 2016 in conformity with principles generally accepted among universities in the United States of America.



CERTIFIED



Dr. Michael Rappa
Institute Director

Source URL: <http://analytics.ncsu.edu/reports/employment/MSA2016.pdf>

<http://analytics.ncsu.edu>

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