

MASTER OF SCIENCE IN ANALYTICS 2015 EMPLOYMENT REPORT

MSA EMPLOYMENT OUTCOMES	
Number of graduates:	86
Number of graduates seeking new employment:	84
Candidates with one or more offers by graduation:	100%
Candidates placed by graduation:	100%
Number of employers interviewing:	158
Median number of initial job interviews per candidate:	12
Median number of offers of employment per candidate:	3
Job placements facilitated by the Institute:	92%
Average ROI payback period (in months):	20
Number of reported job offers:	248
Job placements based in North Carolina:	51%
Job placements based in U.S.:	100%
Candidates reporting job offer data:	99%
Placement results for Class of 2015 reported as of May 1 (graduation date).	

COMPENSATION – MSA CLASS OF 2015

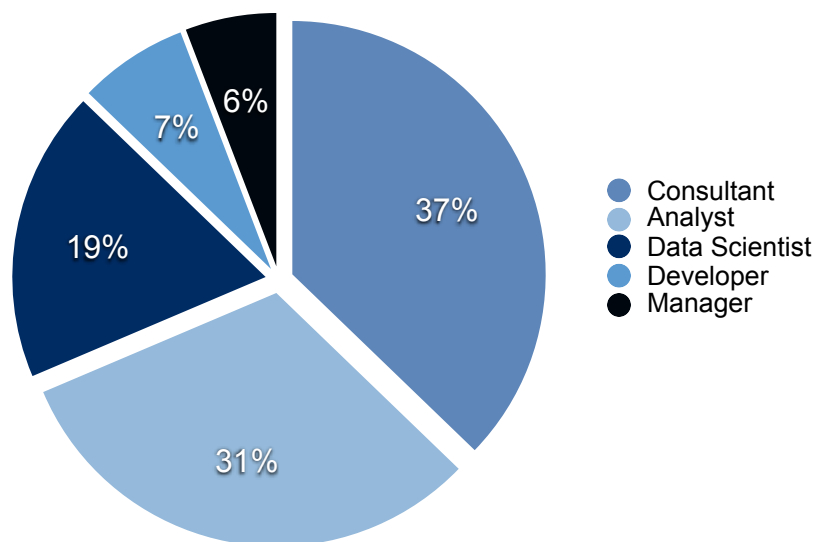
	ANNUAL BASE SALARY				SIGNING BONUS
	Total	No Experience	1-2 Years Experience	3+ Years Experience	
Mean	\$96,400	\$89,700	\$90,900	\$103,600	\$13,300
Median	\$95,000	\$86,850	\$87,000	\$105,000	\$10,500
75th Percentile	\$105,000	\$95,000	\$100,000	\$115,000	\$20,000
25th Percentile	\$85,000	\$82,000	\$87,000	\$95,000	\$5,000
Maximum	\$125,000	\$120,000	\$125,000	\$125,000	\$30,000
Minimum	\$75,000	\$75,000	\$80,000	\$82,000	\$1,500
N	83	30	17	36	54
% Reporting	99%	36%	20%	43%	64%

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). Two graduates in 2015 did not seek new employment: both returned to a sponsoring employer. Student job placements are full-time paid positions without exception; the Institute does not place students in part-time, internships, 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) 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. The Institute has a proven track record for placing its graduates in the analytics profession, but it does not under any circumstance offer a guarantee of employment upon completion of the MSA degree.

POSITIONS FILLED – MSA CLASS OF 2015

Analytical Software Tester	Senior Analyst (3)
Analytics and Optimization Advisor	Senior Analytic Scientist (3)
Analytics Technologist	Senior Analytics Manager
Associate Consultant	Senior Associate
Associate Data Scientist (2)	Senior Associate Analytical Consultant (2)
Business Analyst	Senior Associate Analytical Software Tester (3)
Business Intelligence Analyst	Senior Associate Technical Consultant (2)
Consultant (14)	Senior Business Analyst
Data Analyst	Senior Consultant (6)
Data Scientist (8)	Senior Data Scientist Engineer (2)
Delivery Manager, Advanced Analytics	Senior Integration Consultant
Guest Experience Insights Analyst	Senior Model Validation Analyst
Informatics Analyst	Senior Scientist
Informatics/Analytics Senior Specialist (2)	Senior Statistical Analyst (2)
Integration Consultant (2)	Senior Value Modeling Analyst
Marketing Analysis Manager	Solutions Architect
Model Validation Analyst	Statistical Consultant
Operations Analytics Modeler	Technical Account Manager (3)
Predictive Modeler	Technical Consultant (2)
Quantitative Financial Analyst	Technology Consultant
Quantitative Risk Analyst (4)	

MAJOR TYPES OF POSITIONS OFFERED TO CLASS OF 2015



EMPLOYERS EXTENDING OFFERS – MSA CLASS OF 2015

Advanced Auto Parts (Raleigh, NC)	Fulcrum (New York, NY)
Alevo (Cupertino, CA)	Genworth Financial (Raleigh, NC)
Ally Financial (Charlotte, NC)	Great Western Casualty (Sioux City, IA)
American Express (New York, NY)	GlaxoSmithKline (RTP, NC)
Amruta (Washington, DC)	HanesBrands (Winston-Salem, NC)
ARPC (Washington, DC)	IBM (Herndon, VA)
Bank of America (Charlotte, NC)	InterWorks (New York, NY)
Boeing (Charleston, SC)	JP Morgan Chase (Columbus, OH)
Booz Allen Hamilton (Washington, DC)	Kohl's (Milwaukee, WI)
Boston Consulting Group (Boston, MA)	Kum & Go (Des Moines, IA)
Cargill (Minneapolis, MN)	Liberty Mutual (Boston, MA)
Carlisle & Gallagher (Charlotte, NC)	Lockheed Martin (Fort Worth, TX)
Caterpillar (Peoria, IL)	Lowe's Companies (Mooresville, NC)
Cigna (Raleigh, NC)	M&T Bank (Buffalo, NY)
Cisco Systems (RTP, NC)	MaxPoint Interactive (Cary, NC)
Citrix (Raleigh, NC)	Novozymes (Franklinton, NC)
Crete Carrier (Lincoln, NE)	Oracle (Denver, CO)
Dell Software (Aliso Viejo, CA)	Pew Research (Washington, DC)
Deloitte (Boston, Charlotte, Chicago, New York, and San Francisco)	Red Ventures (Charlotte, NC)
Discover Financial (Chicago, IL)	RTI International (RTP, NC)
Disney (Orlando, FL)	SAS (Cary, NC)
Eastman Chemical (Kingsport, TN)	Sports South (Shreveport, LA)
Elder Research (Washington, DC)	The Variable (Winston-Salem, NC)
Elicit, LLC (Austin, TX)	Verisk Health (South Jordan, UT)
EY (Charlotte, NC)	Verizon (Dallas, TX)
Fidelity Investments (Durham, NC)	Volvo Trucks (Greensboro, NC)
Financial Risk Group (Charlotte, NC)	Walmart.com (San Bruno, CA)
Florida Blue (Jacksonville, FL)	Wellmark (Des Moines, IA)
	Zencos (Cary, NC)

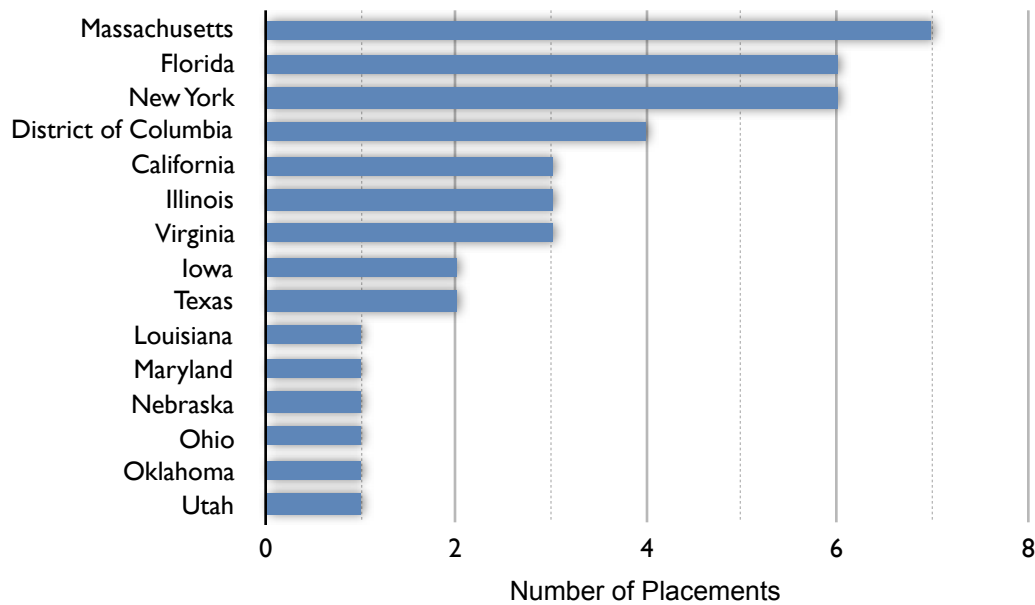
Bold = employers that succeeded in hiring one or more candidates.

List does not include federal government agencies making conditional offers of employment contingent on security clearance.

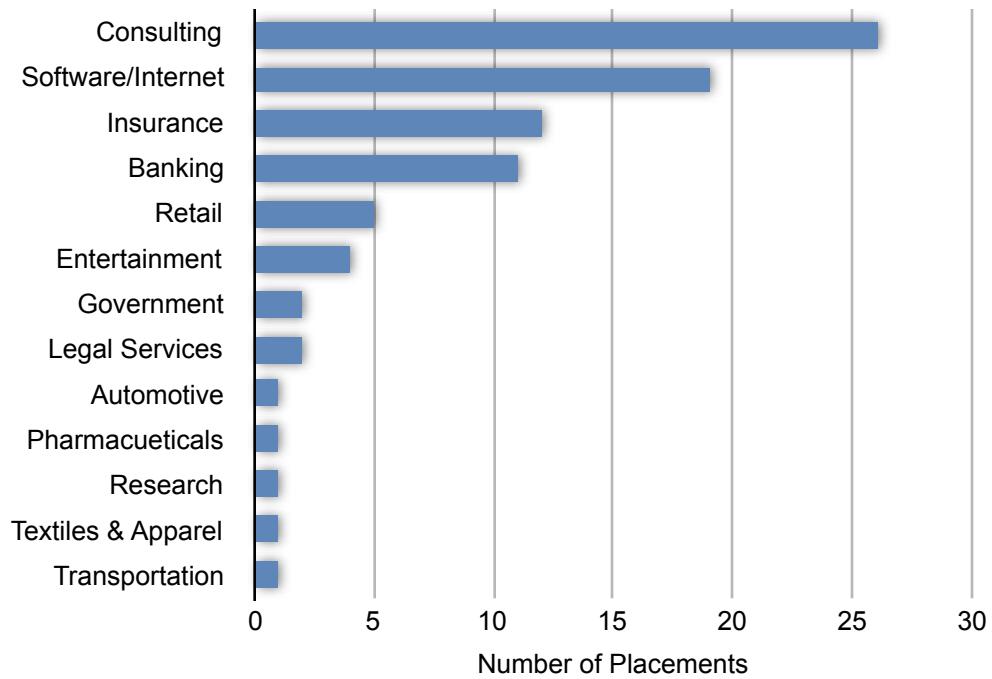
GEOGRAPHIC DISTRIBUTION OF EMPLOYMENT OF U.S.-BASED MSA ALUMNI (N=407)



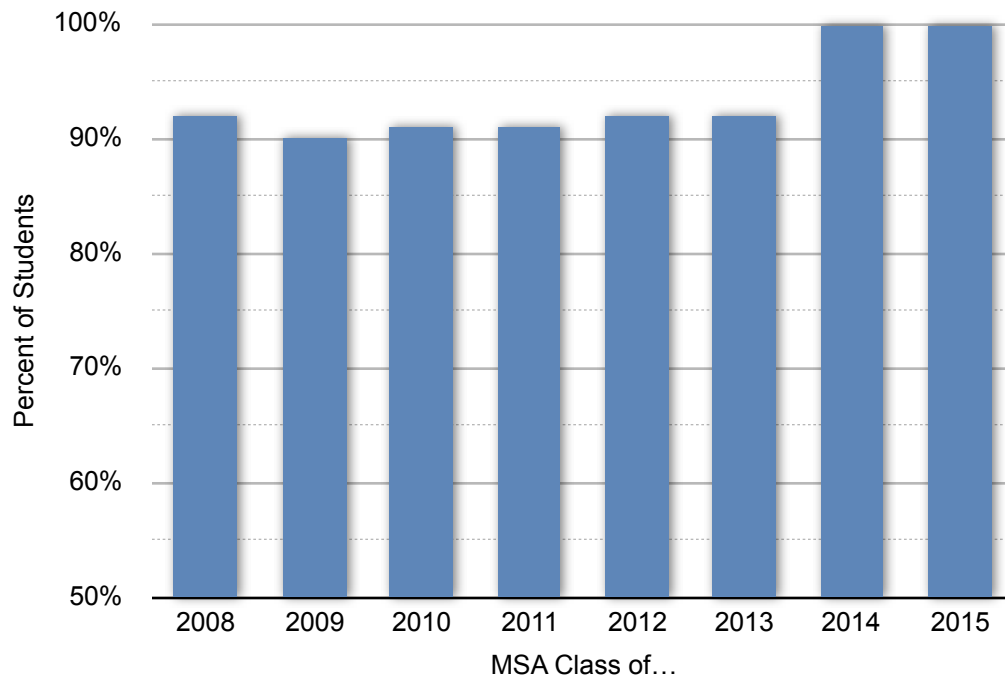
DISTRIBUTION OF EMPLOYMENT BY STATE OUTSIDE NORTH CAROLINA – CLASS OF 2015



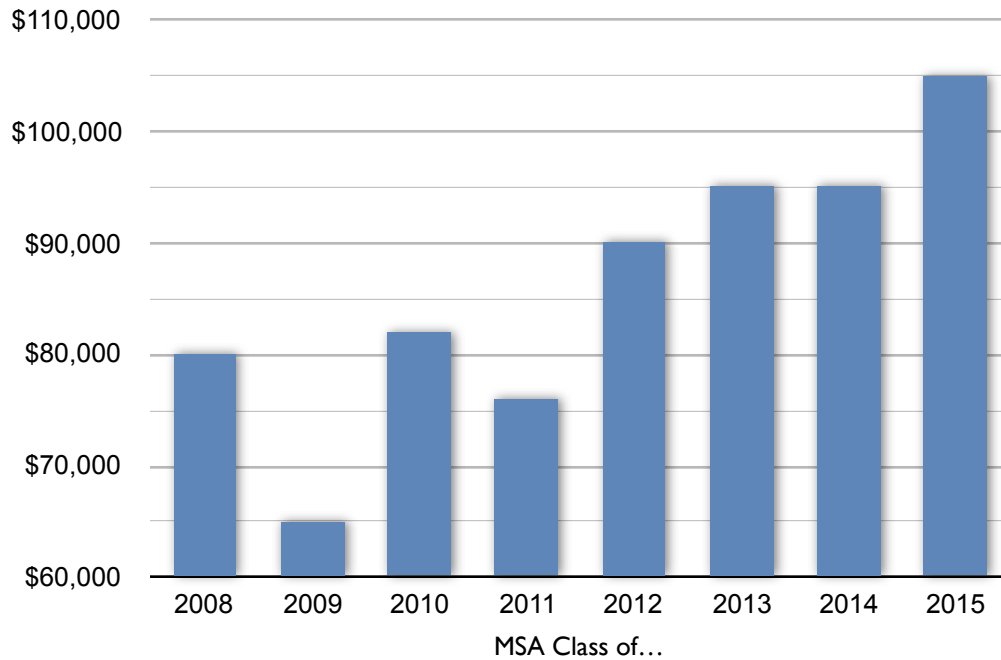
DISTRIBUTION OF EMPLOYMENT BY INDUSTRY SECTOR – CLASS OF 2015



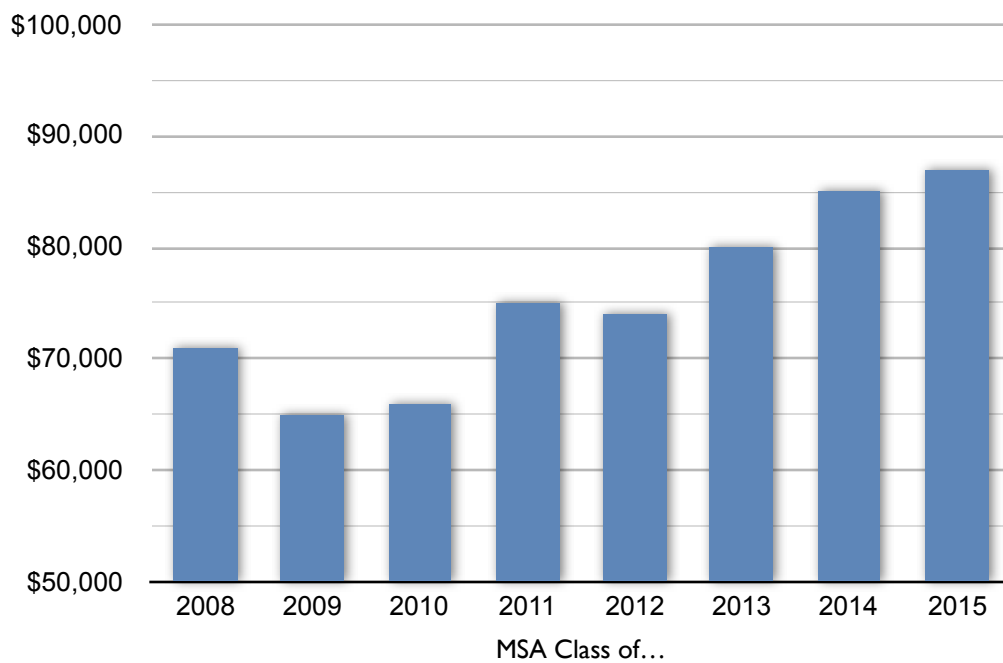
HISTORICAL JOB PLACEMENT BY GRADUATION – 2008-2015



**MEDIAN BASE SALARY TREND – ACCEPTED OFFERS
CANDIDATES WITH 3 OR MORE YEARS EXPERIENCE**



**MEDIAN BASE SALARY TREND – ACCEPTED OFFERS
CANDIDATES WITH LITTLE OR NO EXPERIENCE**



STUDENT RETURN ON INVESTMENT – CLASS OF 2015

	NC Resident	Non-Resident
Pre-MSA Salary Median*	\$51,500	\$51,500
(+) Tuition & Fees	\$23,500	\$40,800
(–) Signing Bonus	\$10,000	\$10,000
Total Investment	\$65,000	\$82,300
Post MSA Salary Median	\$91,000	\$100,000
(–) Pre-MSA Salary	\$51,500	\$51,500
Net Salary Increase	\$39,500	\$48,500
Payback Period (months)	19.7	20.4
Net 3-Year ROI	\$128,500	\$155,500
*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 in May. The response rate was 95-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-five percent of respondents were NC residents, and 44-percent were employed full-time in the year prior to entry. All respondents were employed full-time at graduation. All respondents 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 \$90,000.

The payback calculation does not take into consideration interest incurred by students who borrow to finance their education. Fifty-four percent of students in the MSA Class of 2015 took on debt to pay tuition, borrowing an average of \$39,000 at a median interest rate of 6.2-percent. The average ratio of starting base salary to debt was 2.9.

ANNUAL RECRUITING TIMETABLE	
New cohort of students arrives by:	July 1
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
Student Profile Book available on web site by:	October 1
Student Resume Book 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
Annual Employment Report published on web site by:	May 15
Candidates typically begin employment by first week of:	June
Open positions circulated to 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 its 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 1, 2015 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/MSA2015.pdf>

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