

MASTER OF SCIENCE IN ANALYTICS

2022 EMPLOYMENT REPORT

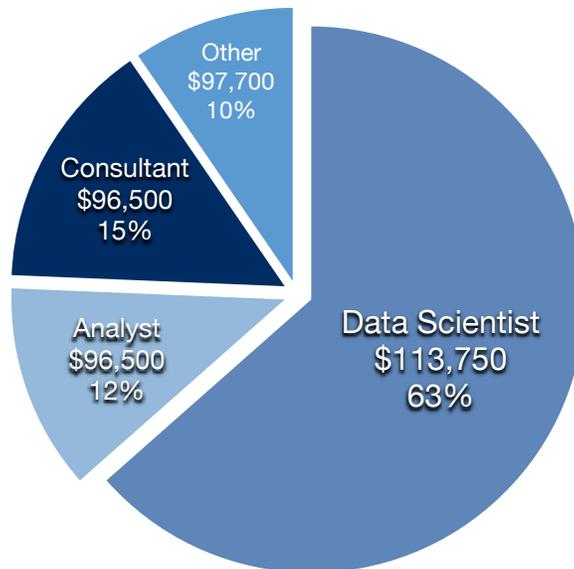
Number of graduates (94% completion rate):	115
Number of graduates seeking new employment:	115
Candidates employed at graduation:	115
Placement rate at graduation:	100%
Average base salary:	\$107,600
Median base salary:	\$112,500
Number of employers interviewing:	149
Number of employers hiring one or more candidates:	43
Total number of reported job offers:	243
Job placements facilitated by the Institute:	97%
Median net increase in earnings:	74%
Median ROI payback period (in months):	20
Job placements based in North Carolina:	60%
Job placements based in U.S.:	100%
Candidates reporting salary data:	100%

Placement results for Class of 2022 reported upon graduation, May 15, 2022.

SELECTED POSITIONS FILLED

Advanced Analytics Associate Consultant	Financial Modeling Analyst
Associate	Growth Marketing Associate
Associate Consultant	Marketing Analytics Lead
Audit Supervisor, Data Quality & Analytics	Product Services Engineer
Business Analyst	Quantitative Solutions Associate
Business Intelligence Analyst	Senior Analyst
Business Intelligence Consultant	Senior Associate Analytical Consultant
Consultant	Senior Associate Solutions Advisor
Data Analyst	Senior Associate Systems Engineer
Data Analyst Consultant	Senior Business Analyst
Data Engineer	Senior Consultant
Data Scientist	Senior Data Scientist
Data Scientist Consultant	Senior Quantitative Analyst
Data Scientist Senior Associate	Systems Engineer
Data Scientist Senior Consultant	Technical Solutions Architect

MAJOR TYPES OF POSITIONS AND AVERAGE BASE SALARIES



COMPENSATION BY EXPERIENCE LEVEL

	ANNUAL BASE SALARY				SIGNING BONUS
	Total	Prior Work Experience			
		None	1-2 Years	3+ Years	
Mean	\$107,600	\$101,300	\$111,300	\$112,600	\$11,700
Maximum	\$135,000	\$133,900	\$135,000	\$130,000	\$26,000
75th Percentile	\$120,000	\$120,000	\$120,000	\$120,000	\$15,000
Median	\$112,500	\$100,000	\$120,000	\$117,500	\$10,125
25th Percentile	\$95,000	\$91,275	\$105,000	\$102,750	\$10,000
Minimum	\$65,000	\$65,000	\$83,000	\$85,000	\$1,000
N	115	48	29	38	76
% Reporting	100%	42%	25%	33%	66%

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 will enter a paid, employer-sponsored training program for one year before entering regular full-time employment. 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, annual bonuses, equity or options, 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 salary 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, and data are reported each year on or about May 15 for consistency.

DISCLAIMER: The Institute has 15-year proven track record having placed over 1,200 (99%) of its graduates in full-time professional positions with 90 days of graduation, but it does not under any circumstance offer a guarantee of employment upon completion of the degree.

EMPLOYERS

(n = 64; with 43 employers succeeding in hiring one or more candidates)

Accenture AI	Intrinio
Advance Auto Parts	Jacksonville Jaguars
Ally	JPMorgan Chase*
Ankura	JustAnswer
Arkatechure	KPMG
Asurion	LEK Consulting
Bank of America	LendingTree
Beghou Consulting	Live Oak Bank
Booz Allen Hamilton	Mack Trucks
Cadient Talent	MetLife
Camping World	NextEra Analytics
Cape Fear Collective	Pendo*
Celonis	PenFed Credit Union*
Choice Hotels	PNC
Cigna	Primer Labs
Cincinnati Reds	Red Hat*
Credit Karma	Red Ventures
Daimler Trucks	RTI International
Dataiku	SAS*
DISH Network	State Employee's Credit Union
Elder Research	Siemens Healthineers
Elevate Credit*	State Farm
EY*	Targetbase
Fidelity Investments	The Home Depot
Fifth Third Bank*	The Walt Disney Company
FRG*	Torc Robotics
GoDaddy	Truist
GRA	UNC/Rex Healthcare
Guidehouse*	Verizon
Humana	Visionist
IBM	Wellmark
Institute for Medical Research	Wells Fargo*

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

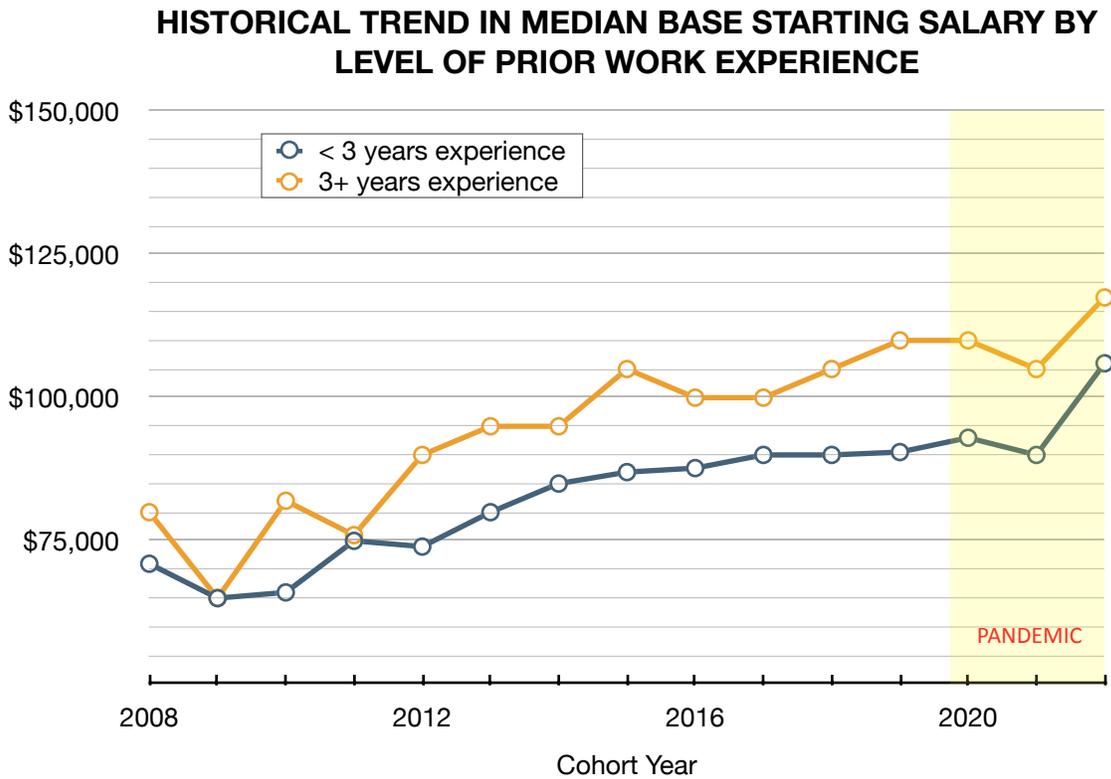
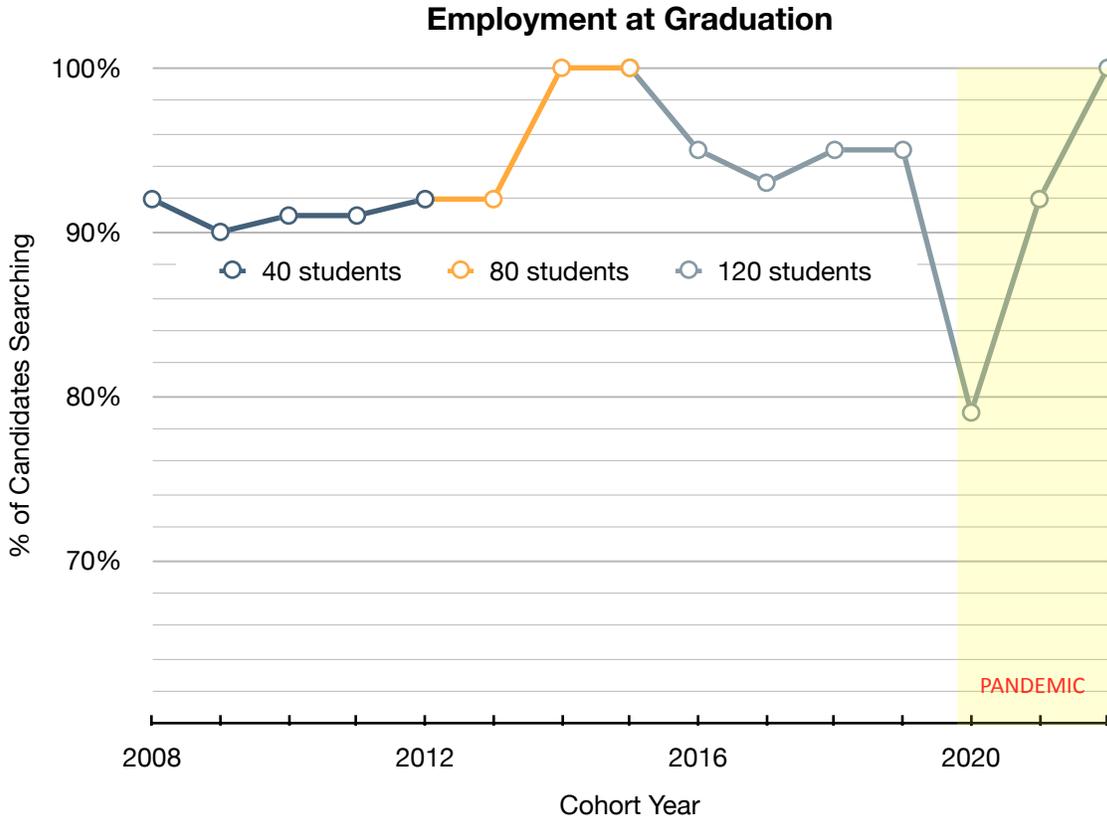
* = employers that hired more than one candidate.

COMPENSATION BY MAJOR POSITION CATEGORIES

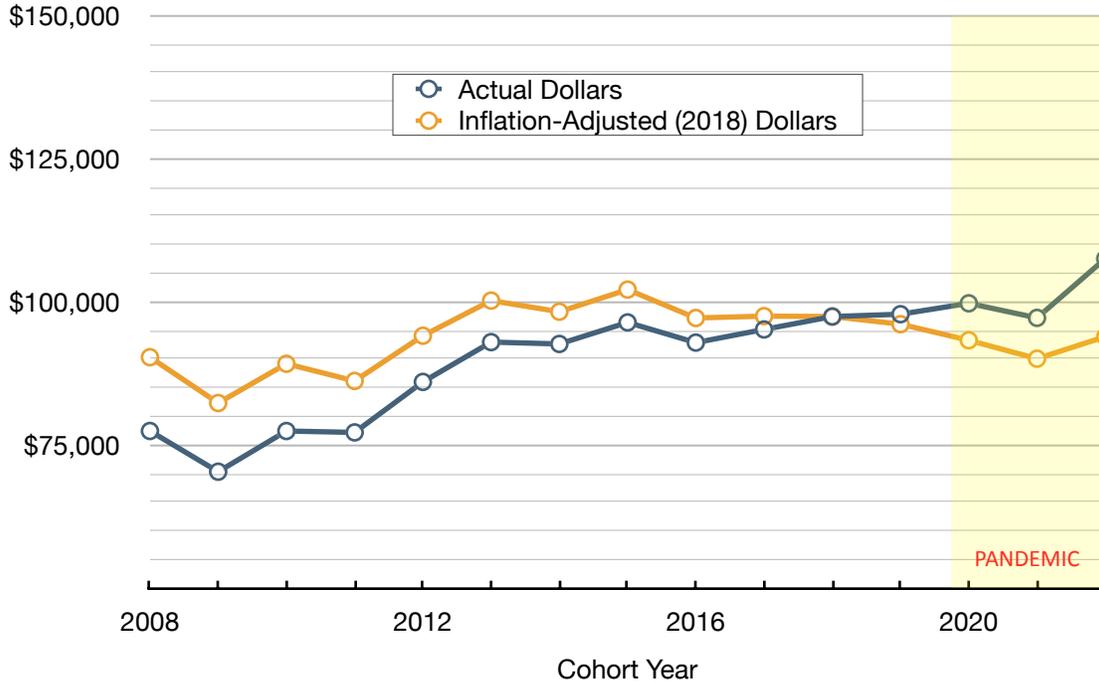
	ANNUAL BASE SALARY				
	All	Data Scientist	Analyst	Consultant	Other
Mean	\$107,600	\$113,750	\$96,500	\$96,500	\$97,700
Maximum	\$135,000	\$135,000	\$125,000	\$125,000	\$120,000
75th Percentile	\$120,000	\$120,000	\$103,750	\$104,500	\$102,500
Median	\$112,500	\$120,000	\$97,500	\$92,000	\$97,500
25th Percentile	\$95,000	\$107,000	\$85,750	\$85,000	\$93,000
Minimum	\$65,000	\$75,000	\$65,000	\$85,000	\$80,000
N	115	73	14	17	11
% of Total	100%	63%	12%	15%	10%

COMPENSATION BY AGE AND GENDER

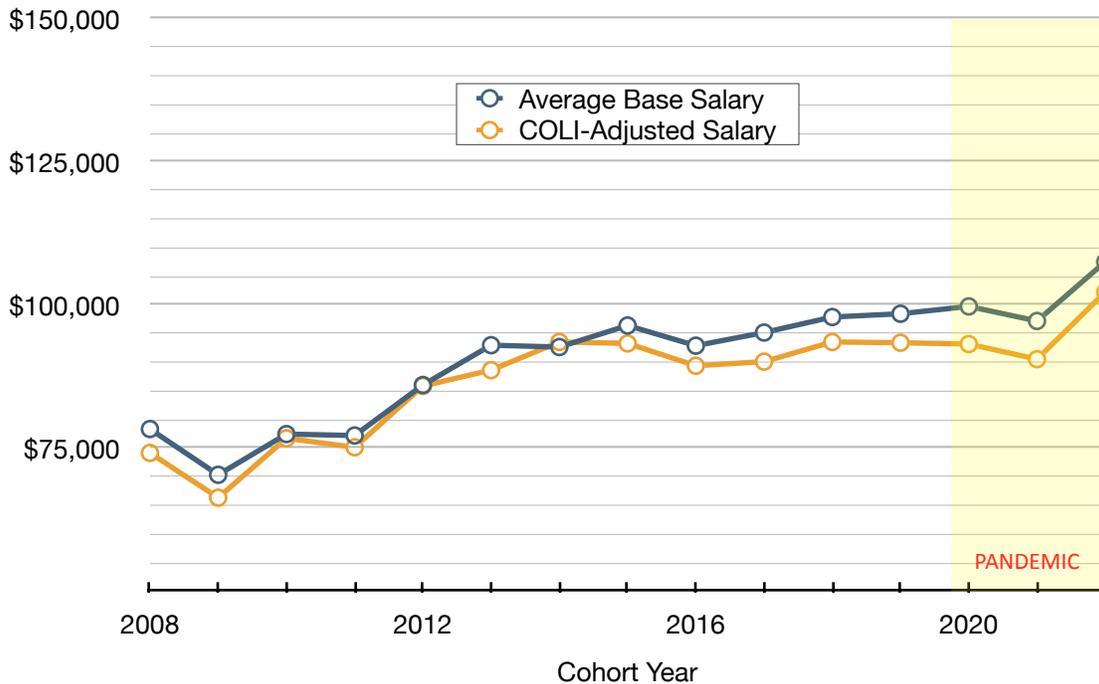
	ANNUAL BASE SALARY					
	All	Age Brackets			Gender	
		20–24	25–29	30+	Men	Women
Mean	\$107,600	\$103,100	\$112,900	\$109,800	\$107,300	\$108,300
Maximum	\$135,000	\$133,900	\$130,000	\$135,000	\$135,000	\$130,000
75th Percentile	\$120,000	\$120,000	\$120,000	\$120,000	\$120,000	\$120,000
Median	\$112,500	\$100,000	\$117,500	\$112,500	\$110,000	\$116,250
25th Percentile	\$95,000	\$92,000	\$105,000	\$100,000	\$95,000	\$97,500
Minimum	\$65,000	\$65,000	\$83,000	\$85,000	\$75,000	\$65,000
N	115	57	41	17	76	41
% of Total	100%	50%	36%	15%	65%	35%



INFLATION-ADJUSTED AVERAGE BASE SALARY BY COHORT YEAR



COST OF LIVING INDEX (COLI) ADJUSTED AVERAGE BASE SALARY BY LOCATION OF EMPLOYMENT



STUDENT RETURN ON INVESTMENT

	NC Resident	Non-Resident
Number of Respondents	35	22
Pre-MSA Salary Median	\$67,300	\$54,500
(+) Tuition & Fees	\$27,400	\$50,500
(-) Signing Bonus	\$15,000	\$10,000
Total Investment	\$79,700	\$95,000
Post MSA Salary Median	\$120,000	\$113,750
(-) Pre-MSA Salary	\$67,300	\$54,500
Net Salary Increase	\$52,700	\$59,250
Payback Period (months)	18	19
Net Increase in Earnings	78%	109%

Based on graduates with full-time domestic employment prior to program entry. The median net increase in salary for the 59 graduates was \$65,000.

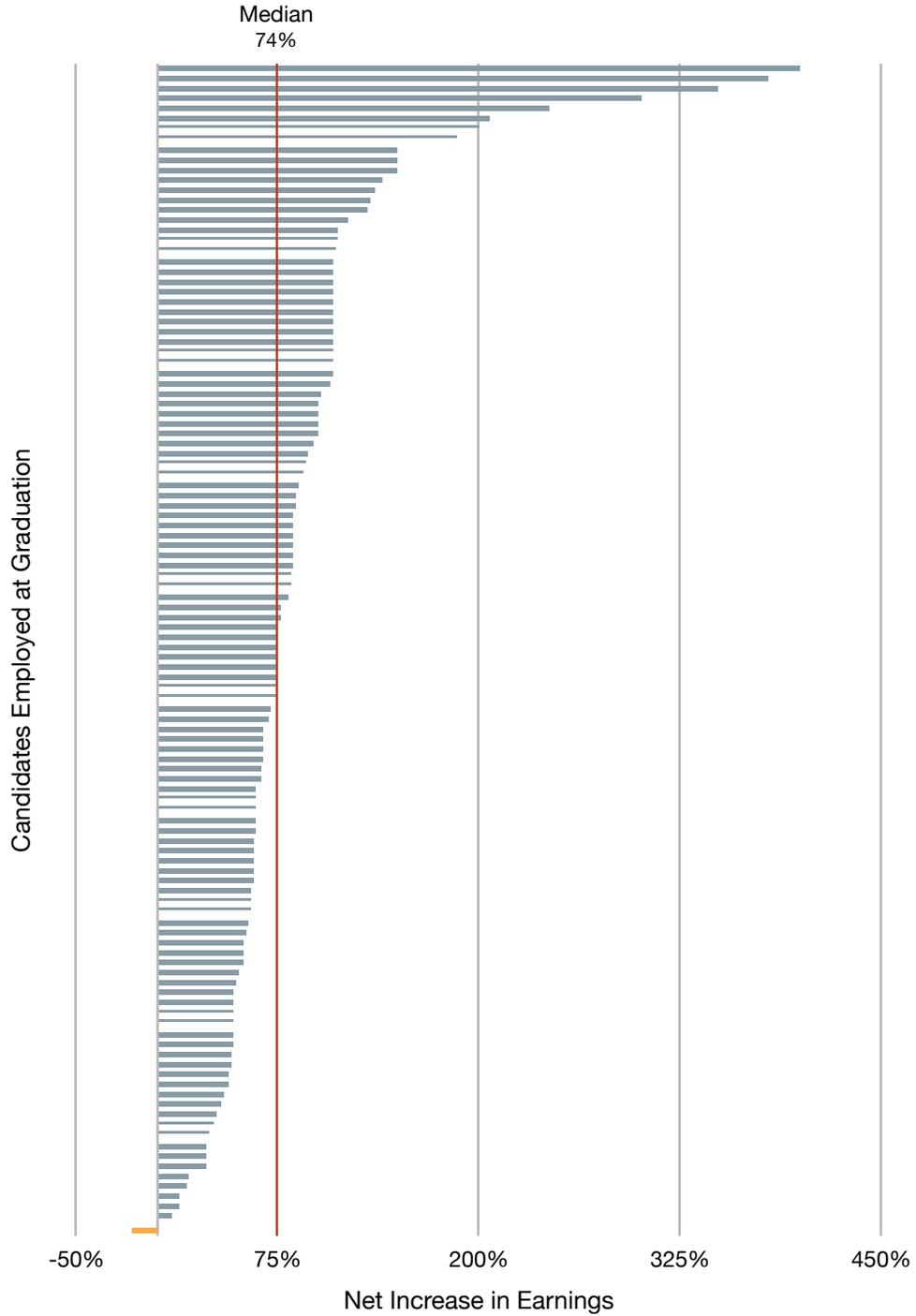
PAYBACK PERIOD CALCULATION

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

Notes: Respondents provided information about their pre- and post-MSA annual base salaries, signing bonuses, and residency status (which determines tuition payments). The median salary increase was \$42,500; all but one respondent reported an increase in salary. The ROI payback period is calculated for each candidate employed by graduation, based on their individual circumstances (residency, tuition, pre- and post-salaries, and signing bonuses)..

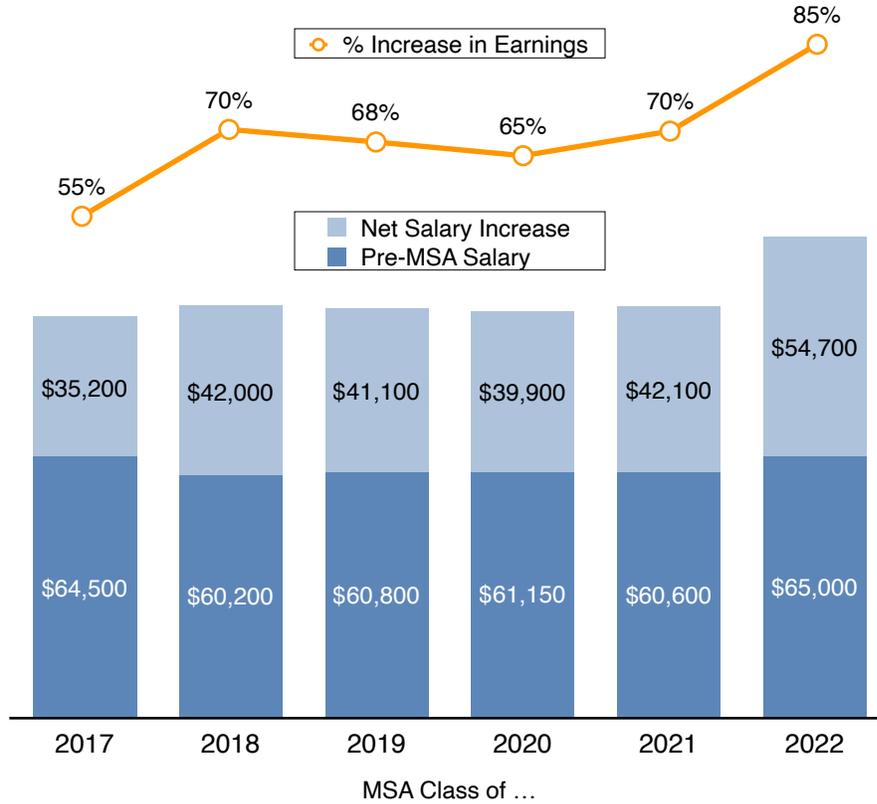
Students are assumed to forgo one-year of earning, even though the MSA program is only 10-months in duration. Pre-MSA salary interquartile range was from \$50,000 to \$74,375. The payback calculation does not take into consideration interest incurred by students who borrow to finance their education.

NET INCREASE IN EARNINGS FOR CANDIDATES EMPLOYED AT GRADUATION, RANK ORDERED

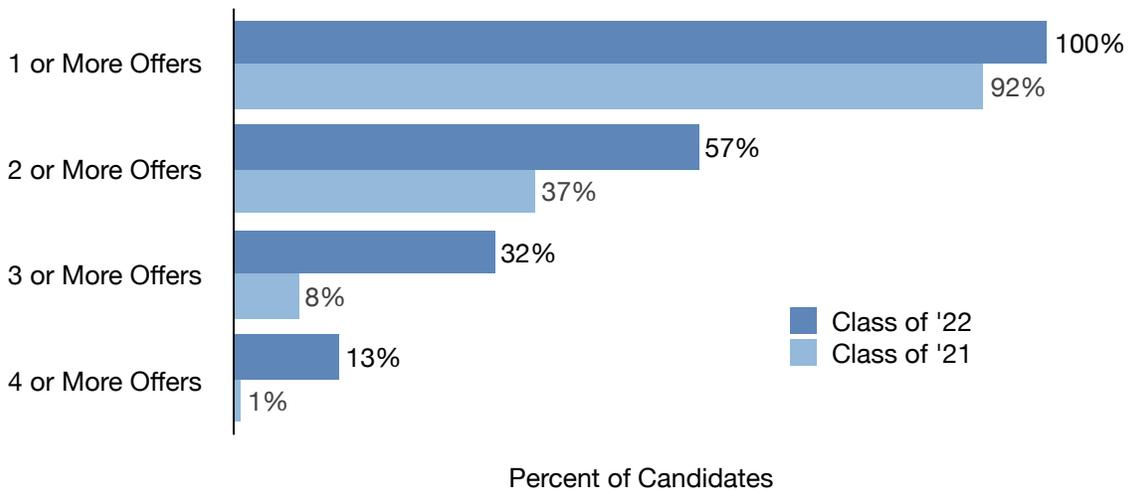


Note: The net increase in earnings is calculated for candidates with no prior work experience using inputted data for the median earnings reported by university graduates in May 2021 (\$57,400).
Source: Institutional Strategy and Analysis, May 2021 Undergraduate Future Plans Survey: All Respondents Overview, NC State University.

NET INCREASE IN EARNINGS FOR PREVIOUSLY EMPLOYED CANDIDATES



NUMBER OF JOB OFFERS RECEIVED BY GRADUATION



COMPENSATION BY INDUSTRY SECTOR

	ANNUAL BASE SALARY				
	All Sectors	Consulting	Financial	Technology	Other
Mean	\$107,600	\$100,500	\$114,300	\$102,500	\$94,500
Maximum	\$135,000	\$125,000	\$135,000	\$133,900	\$120,000
75th Percentile	\$120,000	\$114,500	\$120,000	\$107,000	\$106,000
Median	\$112,500	\$95,000	\$120,000	\$100,000	\$95,000
25th Percentile	\$95,000	\$85,750	\$117,500	\$94,500	\$84,800
Minimum	\$65,000	\$85,000	\$80,000	\$81,000	\$65,000
N	115	22	58	28	7
% of Total	100%	19%	50%	24%	6%

COMPENSATION BY GEOGRAPHIC REGION

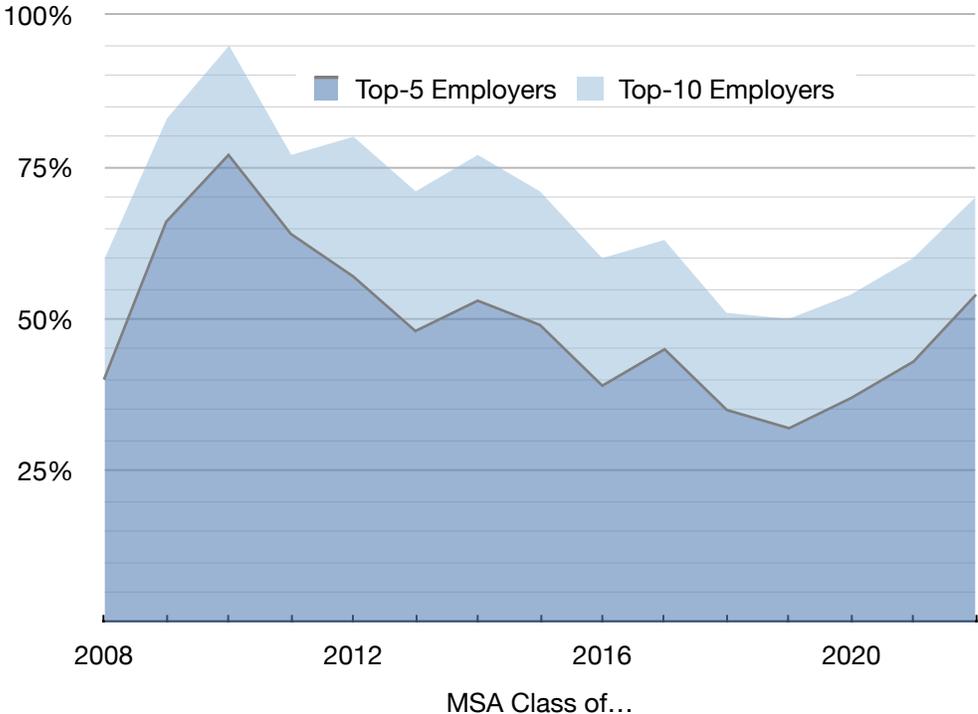
	ANNUAL BASE SALARY				
	North Carolina	U.S. Census Regions Outside North Carolina			
		South	Northeast	Midwest	West
Mean	\$105,600	\$107,600	\$115,200	\$110,900	*
Maximum	\$133,900	\$135,000	\$130,000	\$120,000	*
75th Percentile	\$120,000	\$120,000	\$120,000	\$120,000	*
Median	\$105,000	\$110,000	\$120,000	\$117,500	*
25th Percentile	\$93,000	\$96,250	\$107,000	\$113,125	*
Minimum	\$80,000	\$65,000	\$90,000	\$75,000	*
N	66	26	14	8	1
% of Total	57%	23%	12%	7%	1%

Geographic distribution is based on the location of the employer office, which may be different from the location of the candidate due to the increasing commonality of remote work.

**EMPLOYMENT BY RESIDENCY STATUS
PRIOR TO ADMISSION**

	Percent of Candidates Employed		Subtotal
	Inside North Carolina	Outside North Carolina	
Non-Resident	12%	18%	31%
NC Resident	45%	25%	69%
Subtotal	57%	43%	100%

**PLACEMENT CONCENTRATION AMONG THE TOP-5
AND TOP-10 EMPLOYERS**



RECRUITING TIMETABLE	
New cohort arrives:	June
Admissions Report with class demographics published:	July 1
Student roster available on Institute web site:	July 15
Employer information sessions begin in:	September
Student Profiles published:	October 1
Student Resume Book sent to employers:	December 1
Job interviews begin in:	January
Student job decision date:	March 1
Graduation in the first week of:	May
Employment Report published:	May 15
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 degree completion.

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, 2022 in conformity with principles generally accepted among universities in the United States of America.

May 15, 2022

Date



Dr. Michael Rappa
Institute Director

Source URL: <http://analytics.ncsu.edu/reports/employment/MSA2022.pdf>

NC STATE UNIVERSITY