

11<sup>th</sup> Year



#### About Economic Leadership

- Founded in 2013
- Working in 27 states for 60 Clients
- Statewide & Regional Competitiveness Strategies
- Locational Analysis
- Leadership + Communications
- Trendspotting & Strategy

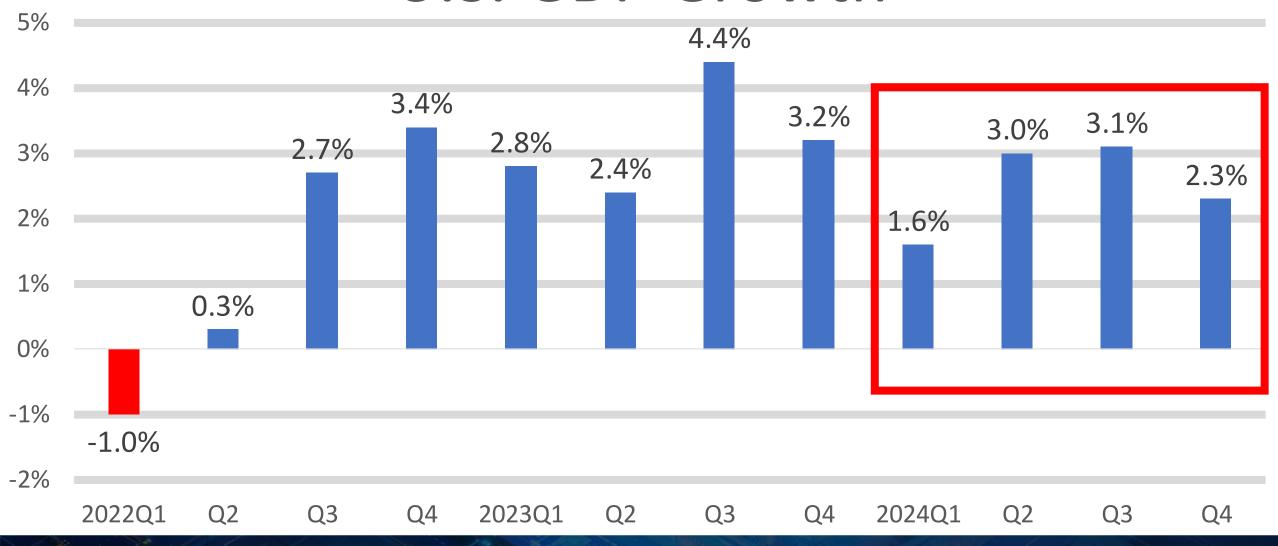








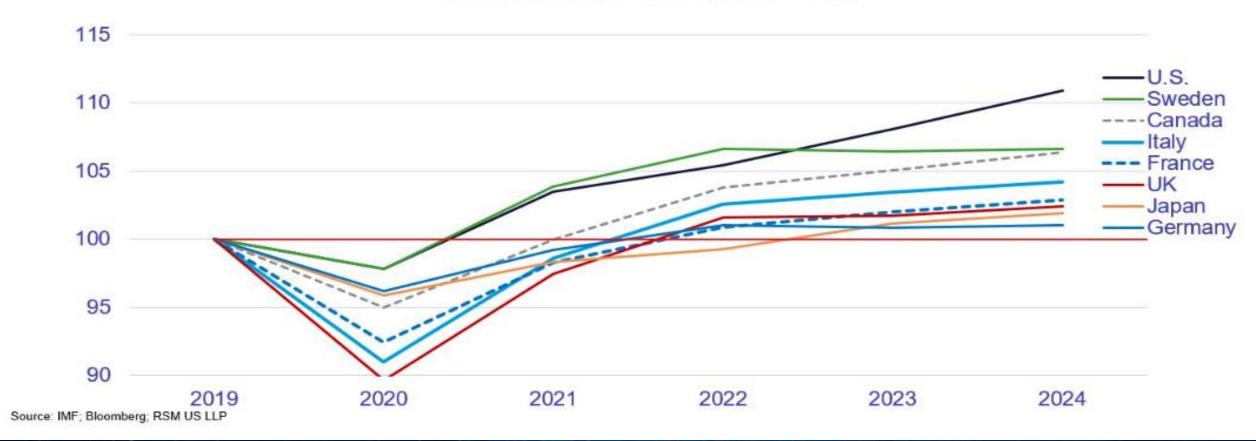
#### U.S. GDP Growth





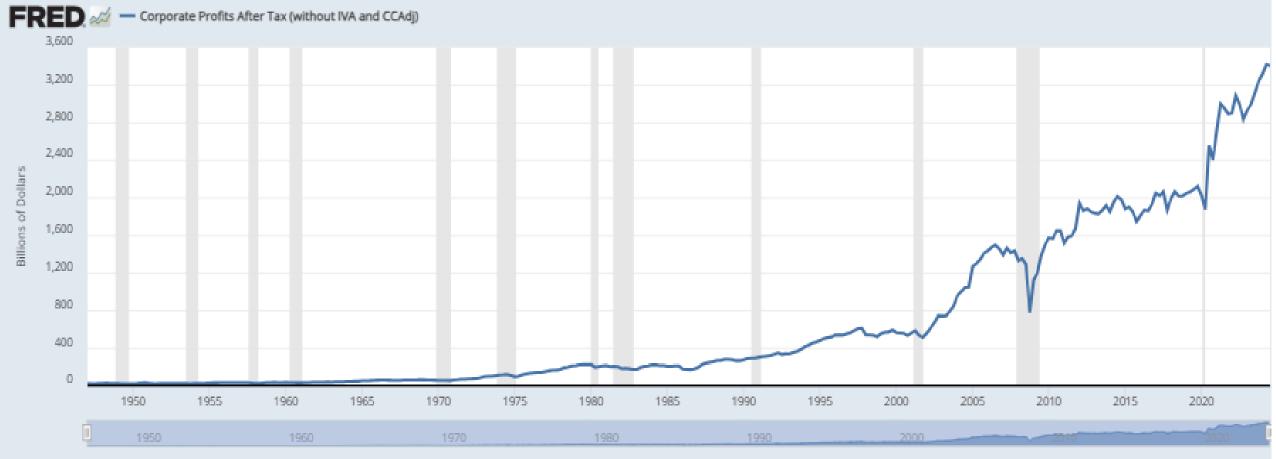
#### Post-Pandemic Economic Recovery and Growth







#### **After Tax Corporate Profits**



Shaded areas indicate U.S. recessions.

Source: U.S. Bureau of Economic Analysis

fred.stlouisfed.org

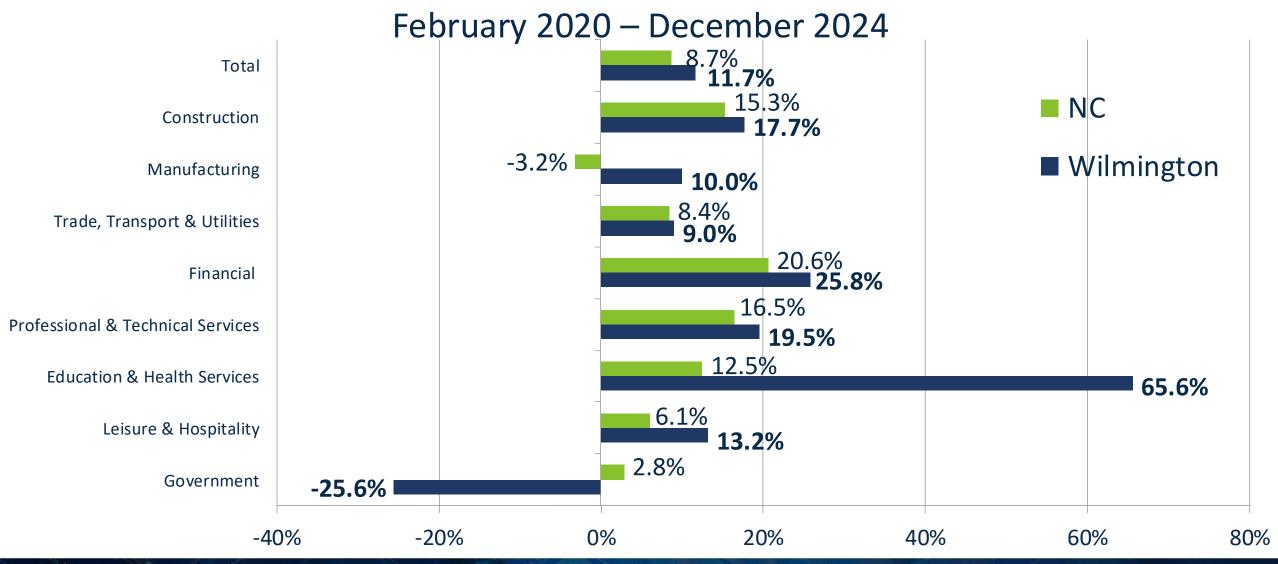


### Employment Change by Sector for the US & NC February 2020 – December 2024





#### **Employment Change by Sector for Wilmington MSA**





#### NC Metro % Non-Farm Employment Change

Since Start of Covid February 2020 - December 2024

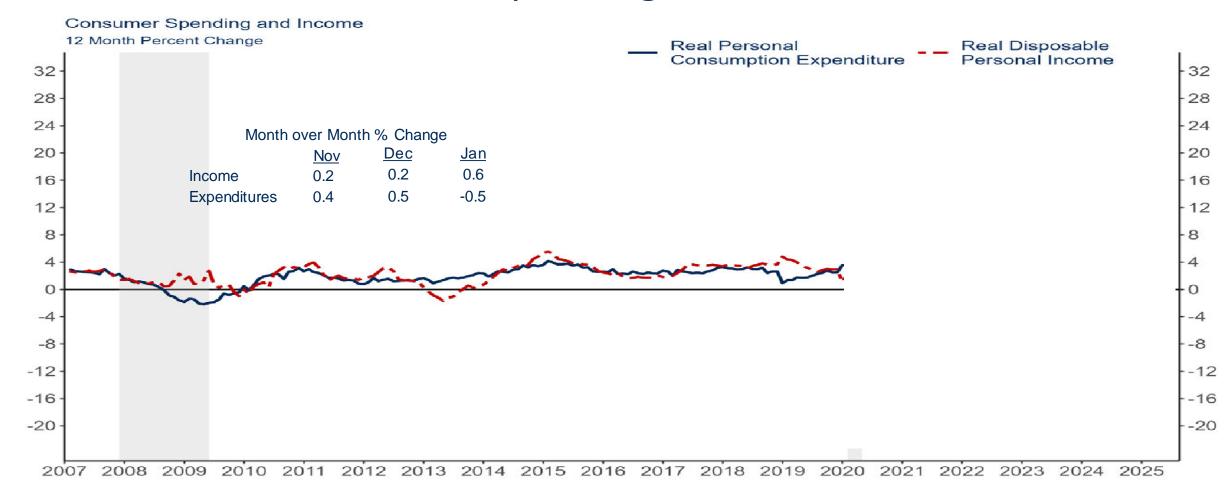






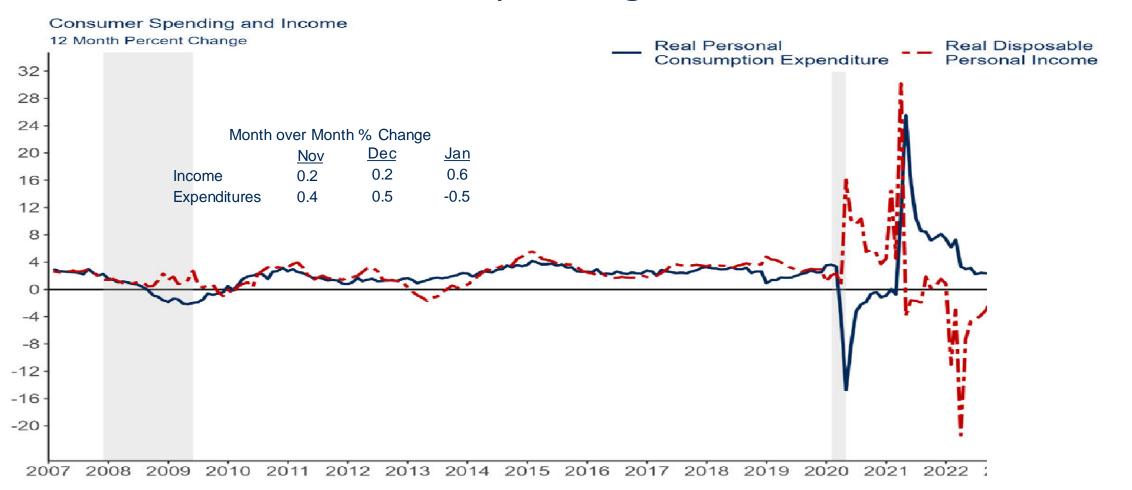


#### Consumer Spending and Income





#### Consumer Spending and Income





32

28

24

20

16

12

8

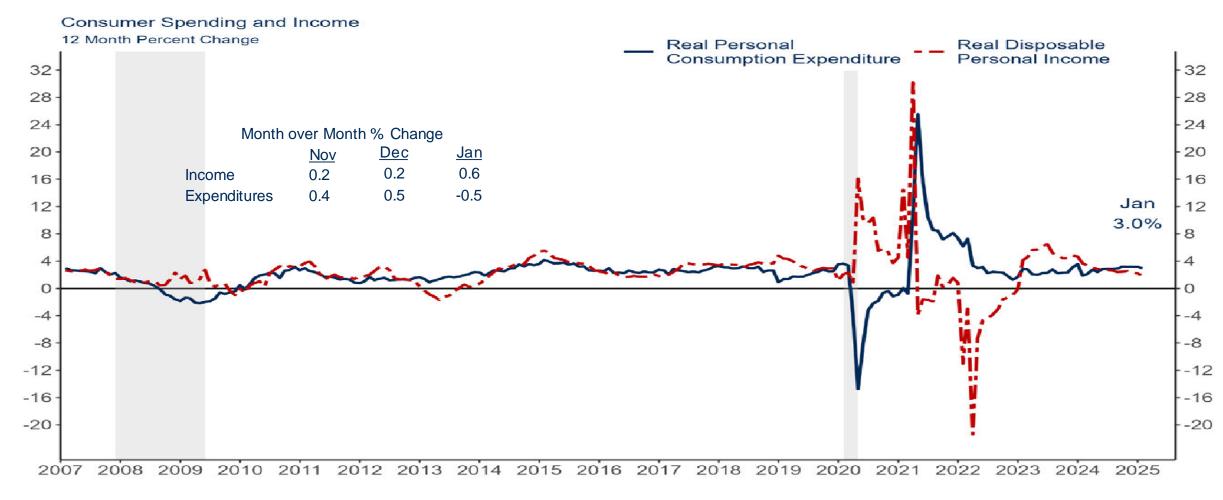
0

-12

-16

-20

#### Consumer Spending and Income





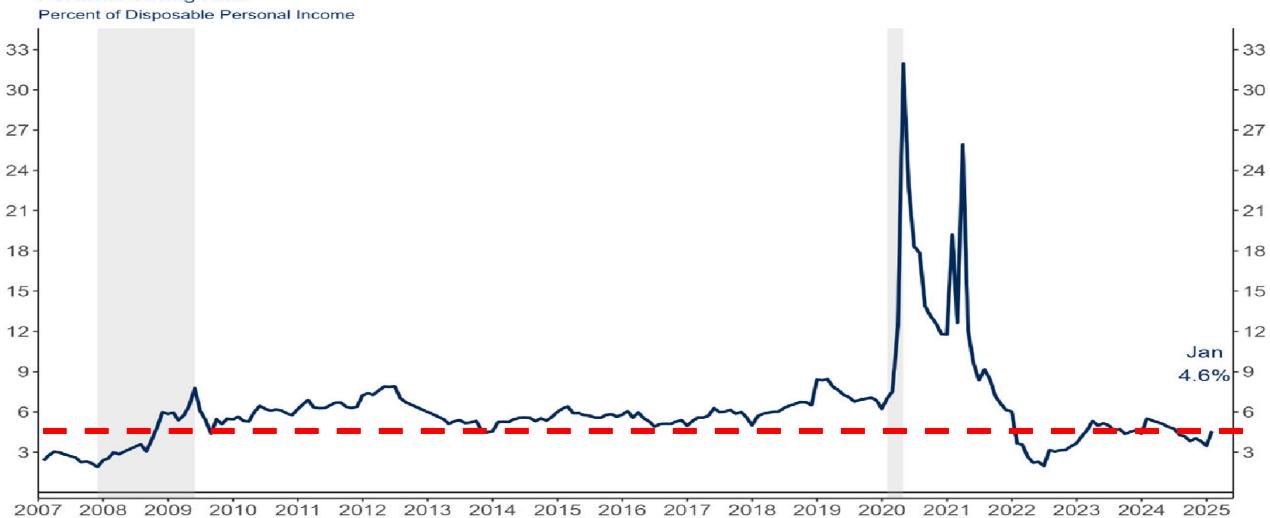
#### **Labor Market Flows**





#### Personal Saving Rate







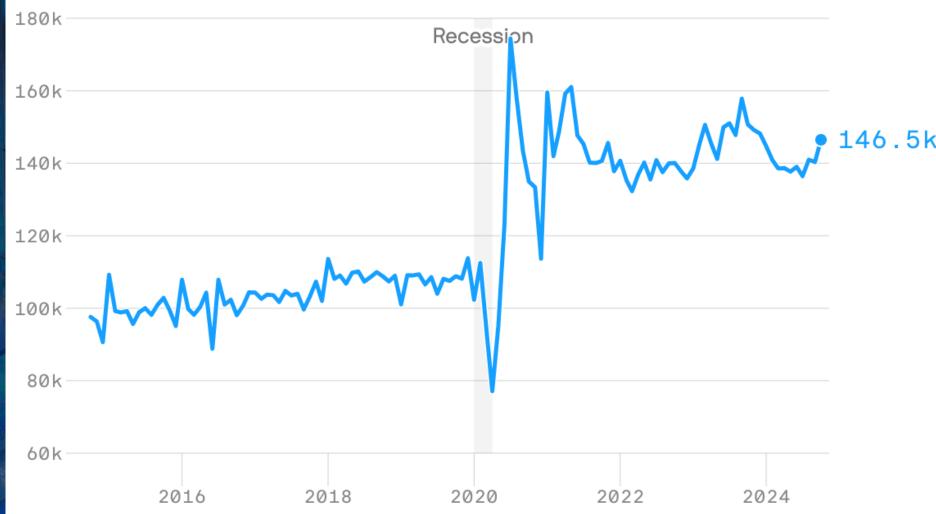






# New business applications for firms with high propensity for becoming employers

Monthly; October 2014 to October 2024



# EADERSHIP

#### Number of establishments and jobs created annually by start-ups, 1994-2023



Click legend items to change data display. Hover over chart to view data.



#### Comparing Labor Productivity Growth

America Has Radically Outshined Its Peers In Terms of Productivity Growth



Graph created by @JosephPolitano using National Accounts data from FRED & National Databases.

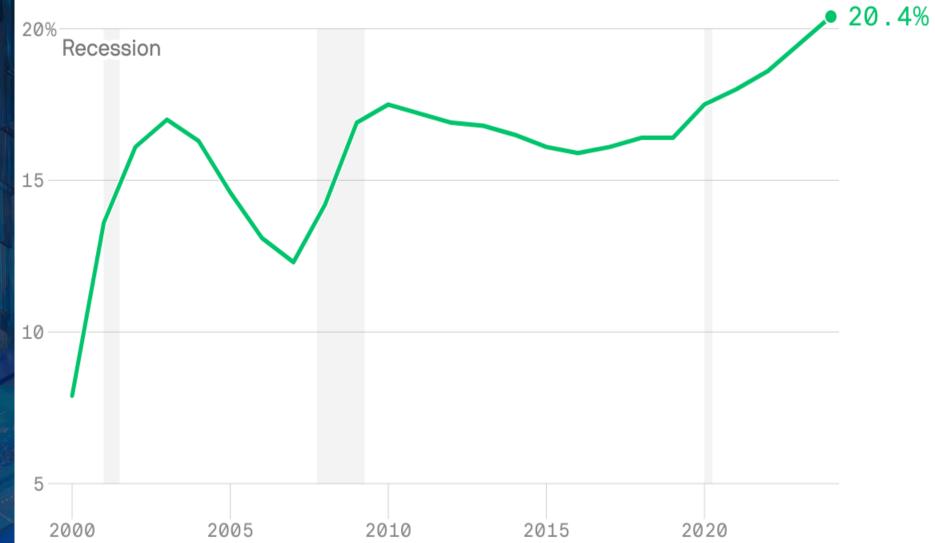




# Data: Moody's. Chart: Axios Visuals

#### U.S. office vacancy rate

Annual average across top 50 U.S. metro areas; 2000–2024

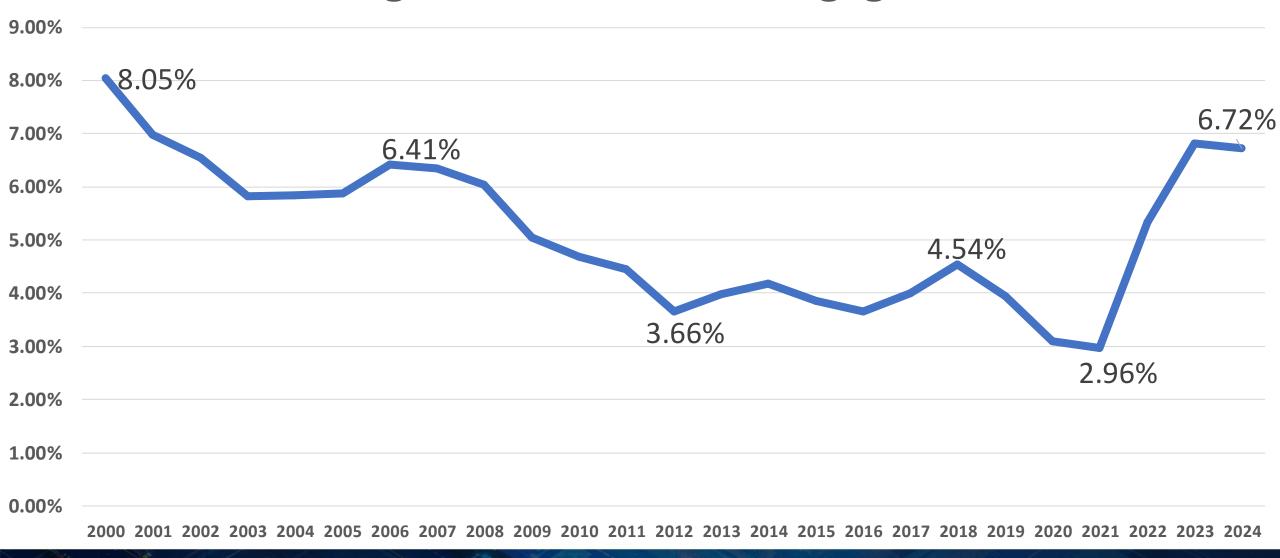


#### National average office occupancy level

Weekly average of 10 select metro areas with highest occupancy rates; Feb. 12, 2020, to Jan. 29, 2025



#### **Average 30-Year Fixed Mortgage Rate**



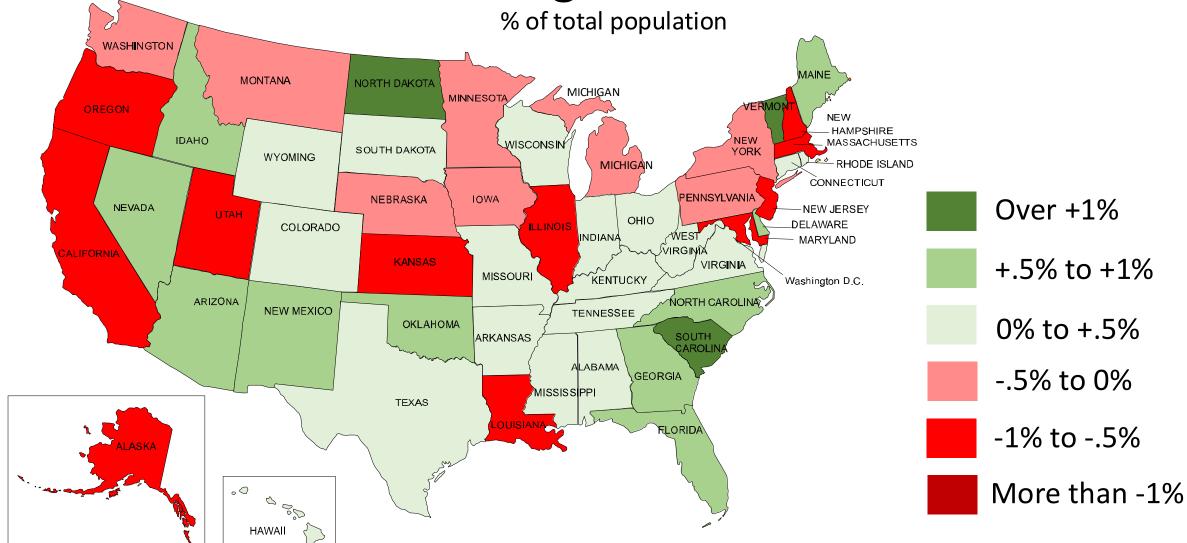


#### Housing Price Increase 2020Q1 to 2024Q3





#### Net Migration 2023

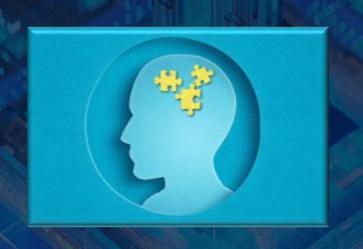




## Losers Winners









#### **Business Climate**

Taxes

Water

Power

**Housing** 

**Childcare** 

**Transportation** 

Infrastructure

**Broadband** 

Regulatory Climate
Legal Climate

#### Risk

Weather
Crime
Fiscal Stability
Political Stability
Out-migration
Geo-economics

#### Workforce

In-migration
Education
Productivity
Costs
Skills
QOL

R&D
Automation
Patents
Advanced Industries

Start-up Ecosystem

**Innovation** 

# Most Favorable Business Climate Site Selection Consultants (Top 5)

2020	2017	2014	2011	2008	2005	2002	1999	1996
Texas 48%	Texas 42%	Texas 50%	Texas 49%	Texas 41%	Texas	Texas <b>25%</b>	Texas 30%	North Carolina <b>33</b> %
Georgia <b>25%</b>	Florida 22%	Florida 18%	North Carolina 27%	North Carolina 30%	North Carolina 26%	North Carolina 20%	California 22%	Texas <b>28</b> %
North Carolina 22%	Georgia <b>20</b> %	Georgia/ North Carolina 17% (tie)	South Carolina	Georgia <b>20</b> %	South Carolina 20%	South Carolina 18%	North Carolina 20%	Georgia <b>27</b> %
Florida 18%	South Carolina 16%	South Carolina 12%	Tennessee 14%	Florida/ Tennessee 15% (tie)	Georgia <b>18%</b>	Florida 18%	Georgia 17%	South Carolina 21%
Tennessee	North Carolina 15%	Tennessee 11%	Florida <b>14%</b>	Nevada <b>14</b> %	Nevada 16%	Georgia <b>15</b> %	Florida <b>14</b> %	Tennessee 20%
	Texas 48%  Georgia 25%  North Carolina 22%  Florida 18%  Tennessee	Texas 48% 42%  Georgia 25% Florida 22%  North Carolina 20%  Florida 300th Carolina 16%  Tennessee North Carolina	Texas Texas Texas 48% 42% 50%  Georgia 25% Florida 18%  North Carolina 22% Georgia North Carolina 17% (tie)  Florida South Carolina 16% South Carolina 12%  Tennessee North Carolina Tennessee	Texas Texas Texas Texas 48% 42% 50% 49%  Georgia 25% Florida 22% 18% 27%  North Carolina 22% Georgia/ North Carolina 17% (tie) South Carolina 14%  Florida South Carolina 16% South Carolina 12% Tennessee 14%  Tennessee North Carolina Tennessee Florida	Texas Texas Texas Texas 48% 42% 50% 49% 41%  Georgia 25% Florida 18% 27% 30%  North Carolina 22% North Carolina 17% (tie) 14% Georgia 20%  Florida 18% South Carolina 12% Tennessee 15% (tie)  Tennessee North Carolina Tennessee Florida Nevada	Texas Texas Texas Texas Texas Texas Texas 48% 42% 50% 49% 41% 33%  Georgia 25% Florida 22% 18% 27% 30% 26%  North Carolina 22% South Carolina 20% 17% (tie) 14% 20% 20%  Florida South Carolina 12% Tennessee Tennessee Georgia 18%  Texas Texas Texas Texas Texas Texas Texas 30% 20%  North Carolina 20% 20% 20%  Florida South Carolina 12% Tennessee Tennessee 15% (tie) 18%  Tennessee North Carolina Tennessee Florida Nevada Nevada	Texas         Texas <th< td=""><td>Texas Texas 33% 25% 30%  Georgia Florida 22% 18% 27% 30% 26% 20% 22%  North Carolina 22% Georgia/ North Carolina 22% 20% 17% (tie) 14% 20% 20% 20% 18% 20%  Florida 16% South Carolina 12% Tennessee Tennessee Florida Nevada Nevada Georgia Florida  Texas Texas Texas Texas Texas Texas Texas Texas 30% 25% 30%  North Carolina North Carolina 20% 25% 30%  Texas Texas Texas Texas Texas Texas 30%  South Carolina North Carolina 20% 20% 20% 20% 20% 20%  Tennessee North Carolina 12% 14% 15% (tie) 18% 18% 18% 17%</td></th<>	Texas 33% 25% 30%  Georgia Florida 22% 18% 27% 30% 26% 20% 22%  North Carolina 22% Georgia/ North Carolina 22% 20% 17% (tie) 14% 20% 20% 20% 18% 20%  Florida 16% South Carolina 12% Tennessee Tennessee Florida Nevada Nevada Georgia Florida  Texas Texas Texas Texas Texas Texas Texas Texas 30% 25% 30%  North Carolina North Carolina 20% 25% 30%  Texas Texas Texas Texas Texas Texas 30%  South Carolina North Carolina 20% 20% 20% 20% 20% 20%  Tennessee North Carolina 12% 14% 15% (tie) 18% 18% 18% 17%

Top 5 (10)
Texas (10)
North Carolina (10)
Georgia (9)
Florida (7)
South Carolina (7)
Tennessee (4)



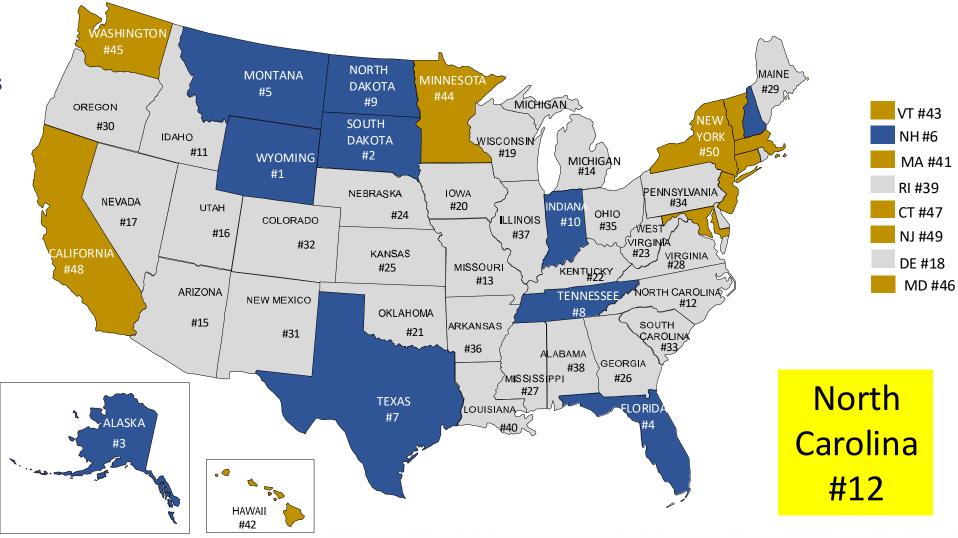
#### Latest Best States for Business Rankings

	CNBC	CEO Magazine	Business Facilities
1	Virginia	Texas	Texas
2	North Carolina	Florida	North Carolina
3	Texas	Tennessee	Virginia
4	Georgia	Arizona	Florida
5	Florida	North Carolina	Tennessee
6	Minnesota	Indiana	Georgia
7	Ohio	Georgia	Indiana
8	Tennessee	Nevada	Colorado
9	Michigan	Utah	Arizona
10	Washington	South Carolina	South Carolina



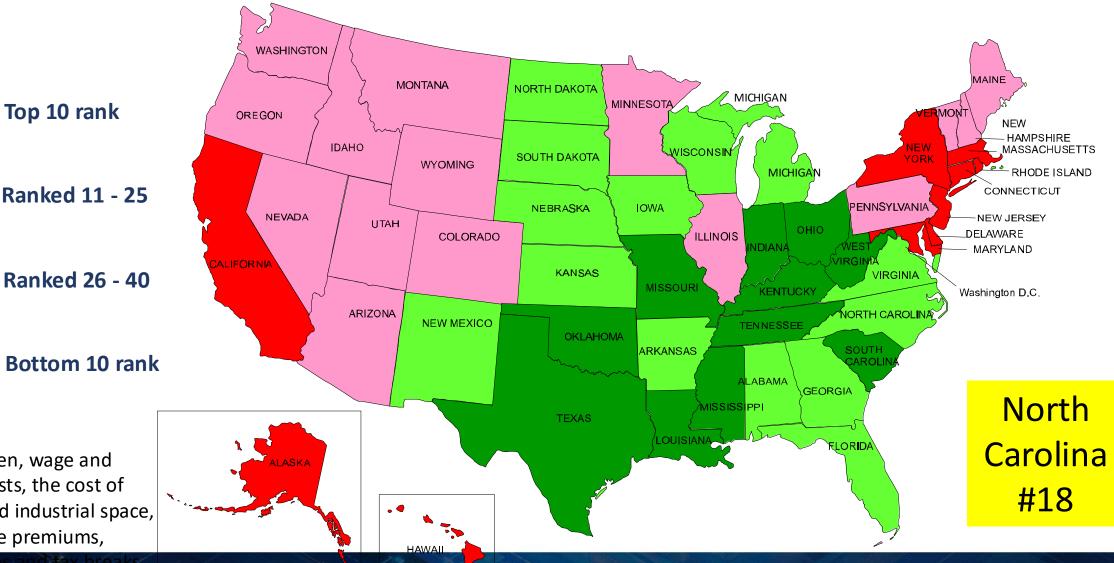
#### 2025 State Business Tax Climate Index

10 Best Business
Tax Climates
10 Worst Business
Tax Climates





#### Cost of Business Ranking 2024



Tax burden, wage and utility costs, the cost of office and industrial space, insurance premiums,

Top 10 rank

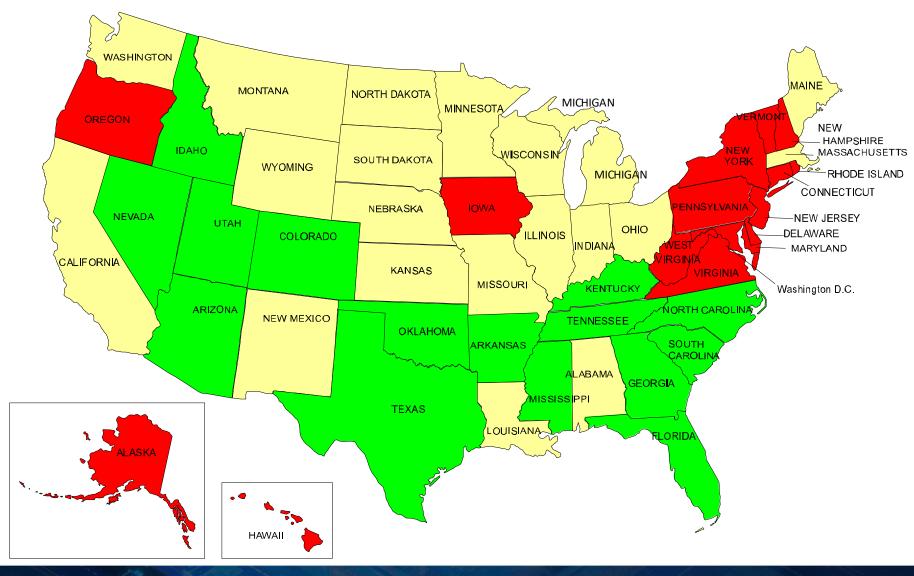
Ranked 11 - 25



#### 2025 Best & Worst States to Start a Business

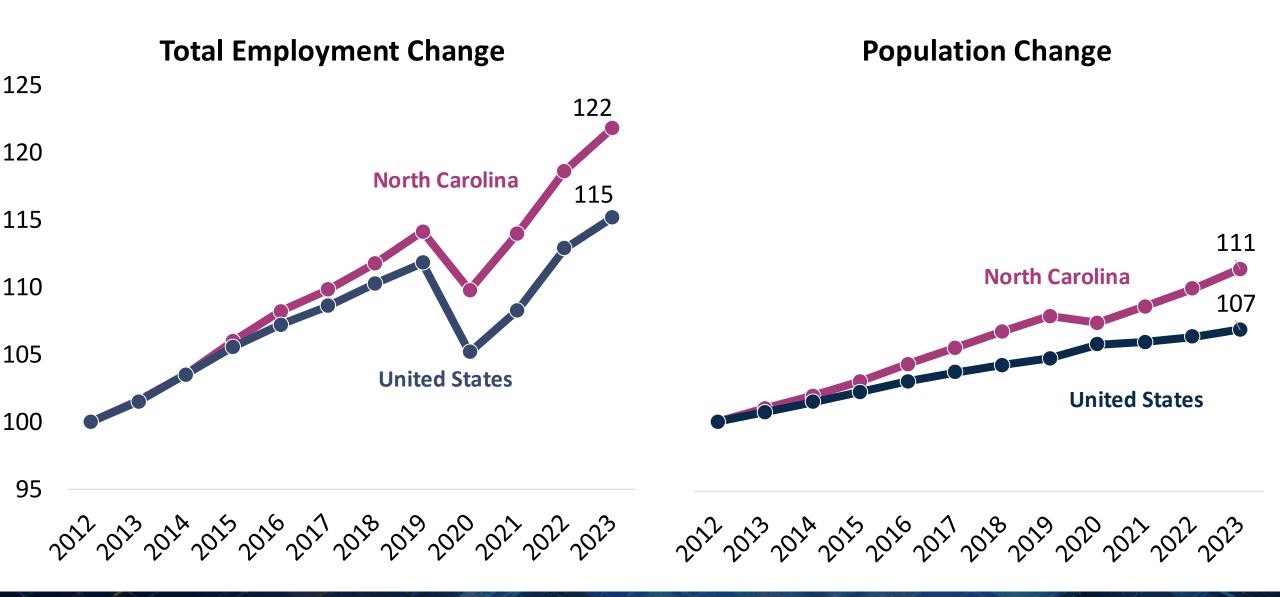
15 Best States to Start a Business

15 Worst States to Start a Business





#### North Carolina is growing faster than the nation...



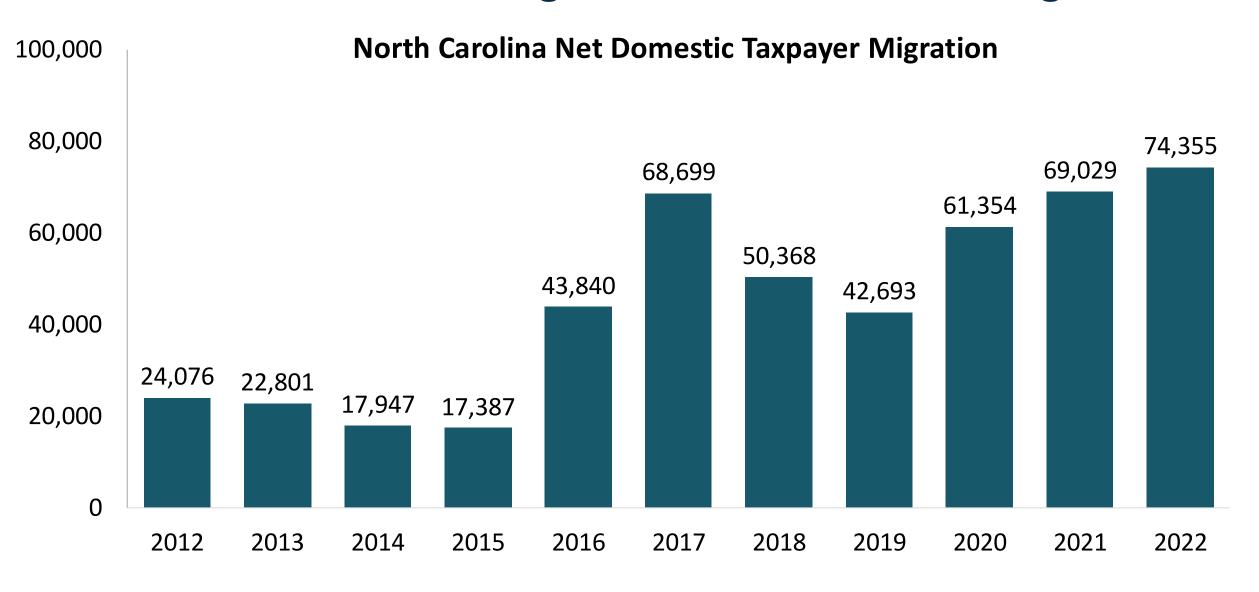
#### The Best Ranked States for Business and Best Metro Performance



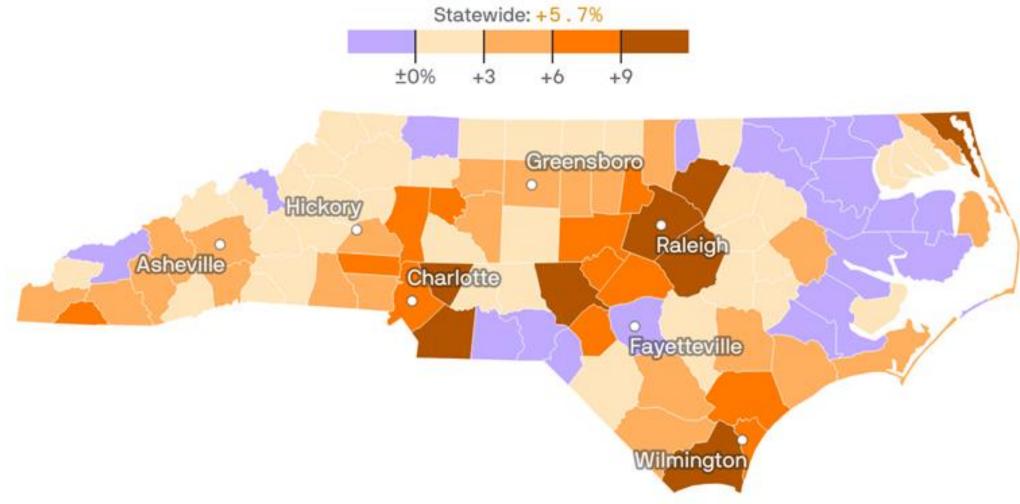
The most competitive metros are in the most competitive states



#### North Carolina continues to gain from state-to-state migration...



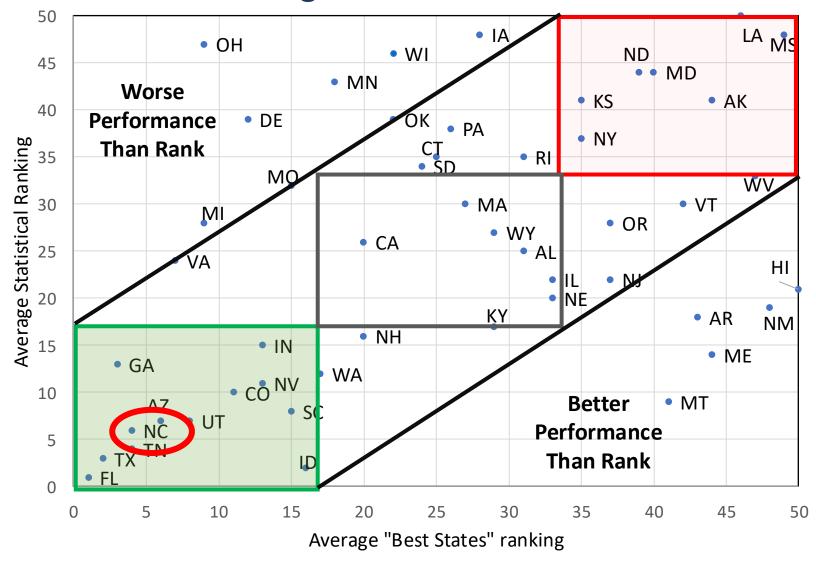
#### Projected population growth, 2025 to 2030



Data: N.C. State Demographer; Map: Axios Visuals



#### Rankings and Performance



# States By Average Ranks by US News, CNBC, and Chief Executive

US News Business Environment released 5/15/24; CNBC released 7/11/24; Chief Executive released 4/24/24

**Plotted Against** 

Actual Performance for Job Growth, Wage Growth and Growth in GDP

3 years 2020-2023 Jobs & Wages: BLS QCEW annual; GDP: BEA

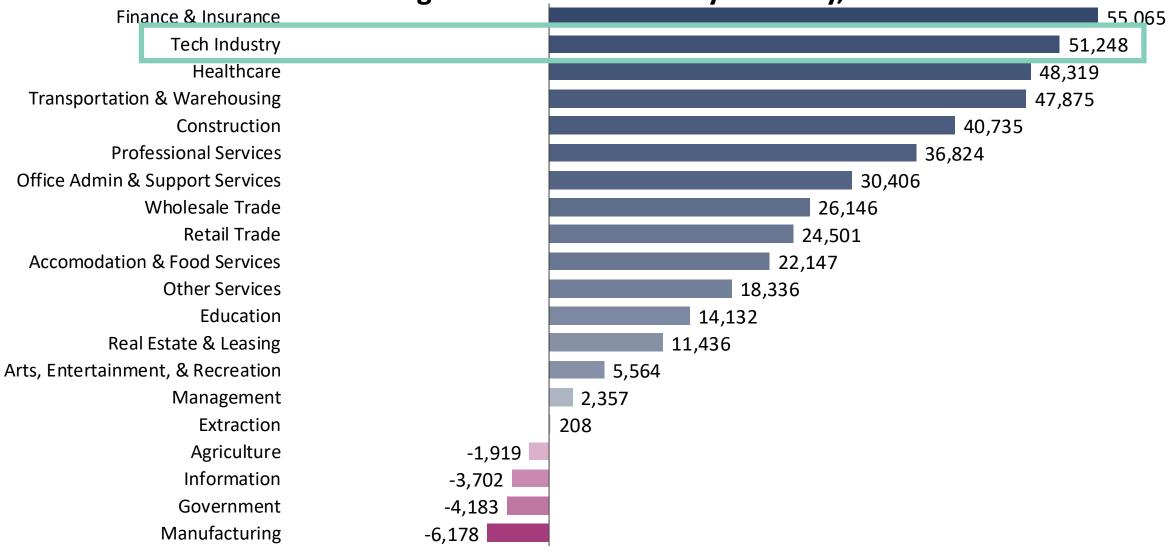


WWW.NCSTIR.COM

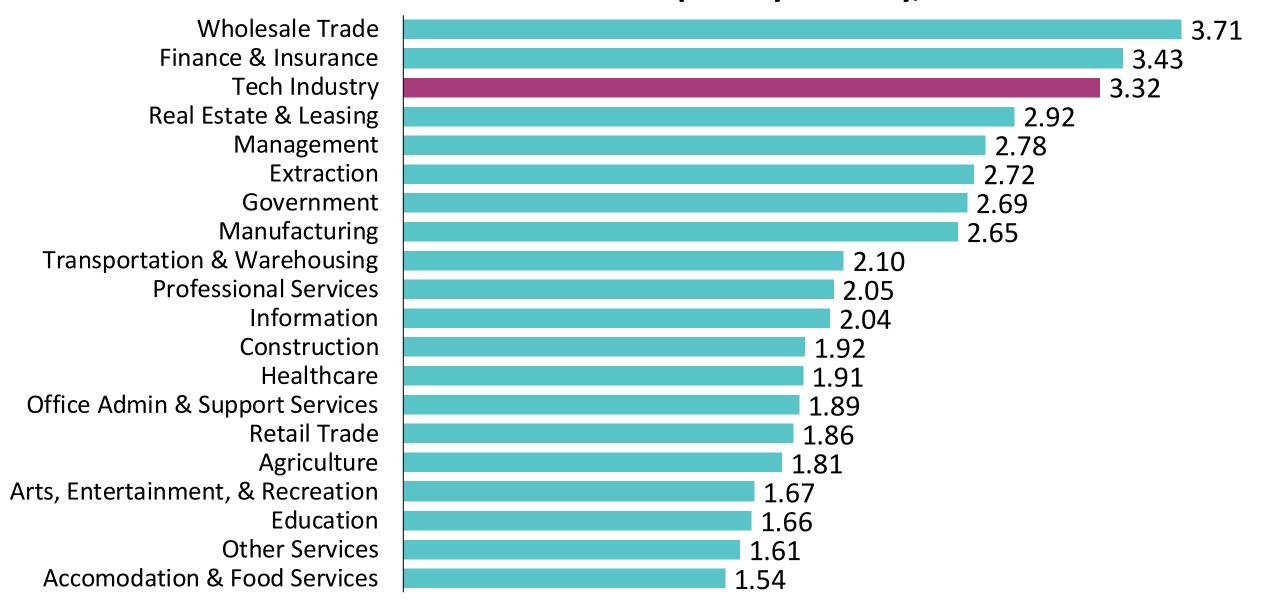


### Tech industry has played important role in the state economy...

Net Job Change in North Carolina by Industry, 2018-2023



### North Carolina Job Multiplier by Industry, 2023

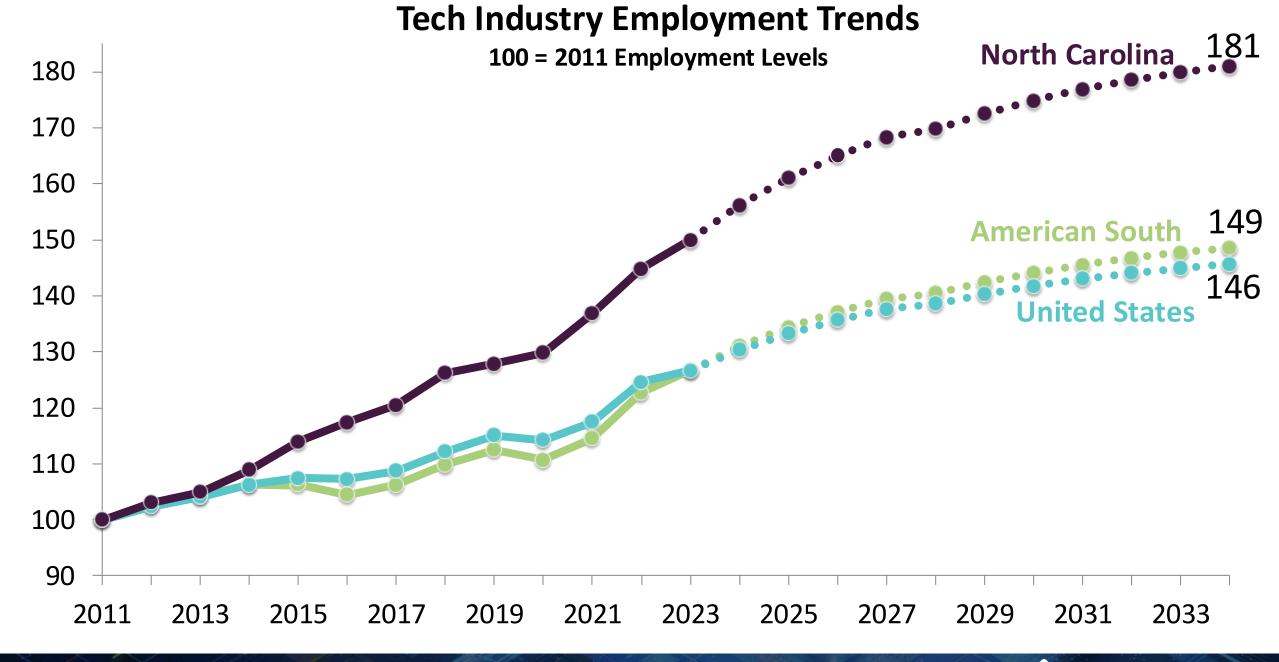


# Measuring the Tech Sector Methodology

- Data from Lightcast, based on Bureau of Labor Statistics (BLS) Quarterly Census of Employment and Wages
- 86 separate 6-digit NAICS code sectors to characterize the Total Technology Sector
- Total Technology Sector further broken down into four sub-categories:
  - Energy Technology
  - Environmental Technology
  - Life Sciences
  - IT, Telecomms, Hardware, and Software (Tech Core)
- 85 distinct 5-digit SOC codes grouped to form Tech Occupations





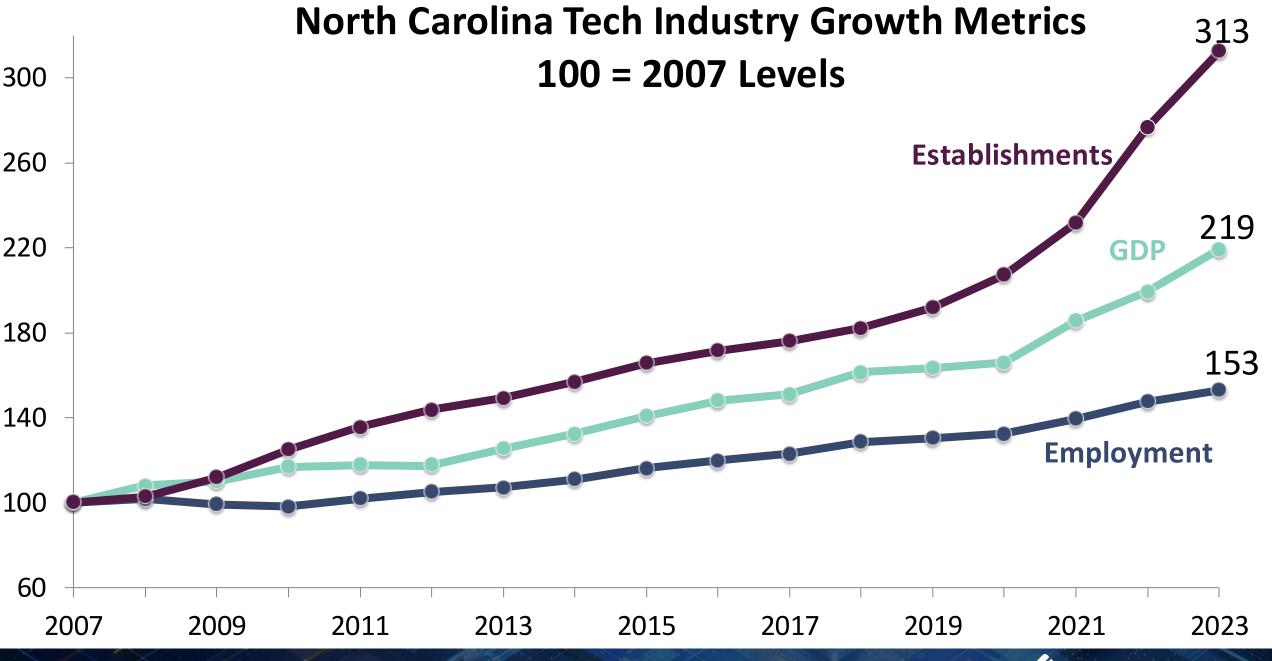


# North Carolina Tech Industry Summary Statistics

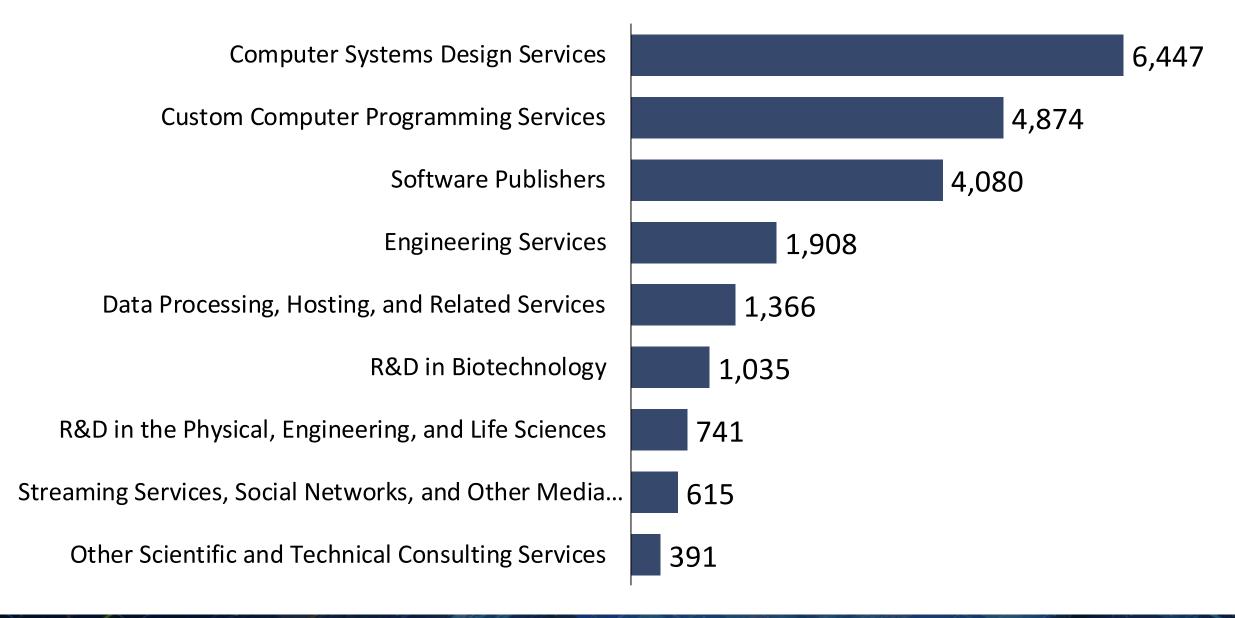
Indicator	Technology Industry	State Total	State Total Percentage
Employees	323,199	4,830,118	6.7%
Establishments	34,342	374,302	9.2%
Wages (millions)	\$41,981	\$350,146	12.0%

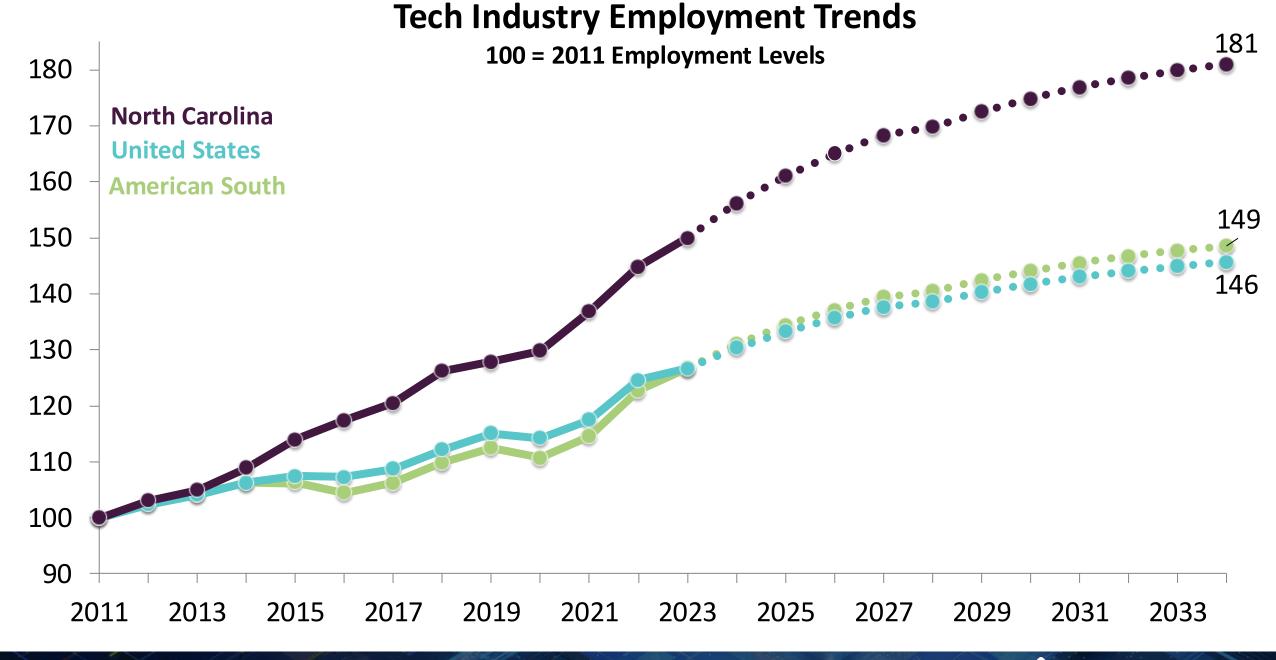
11 Years Ago, There were 220,698 Tech Industry Workers



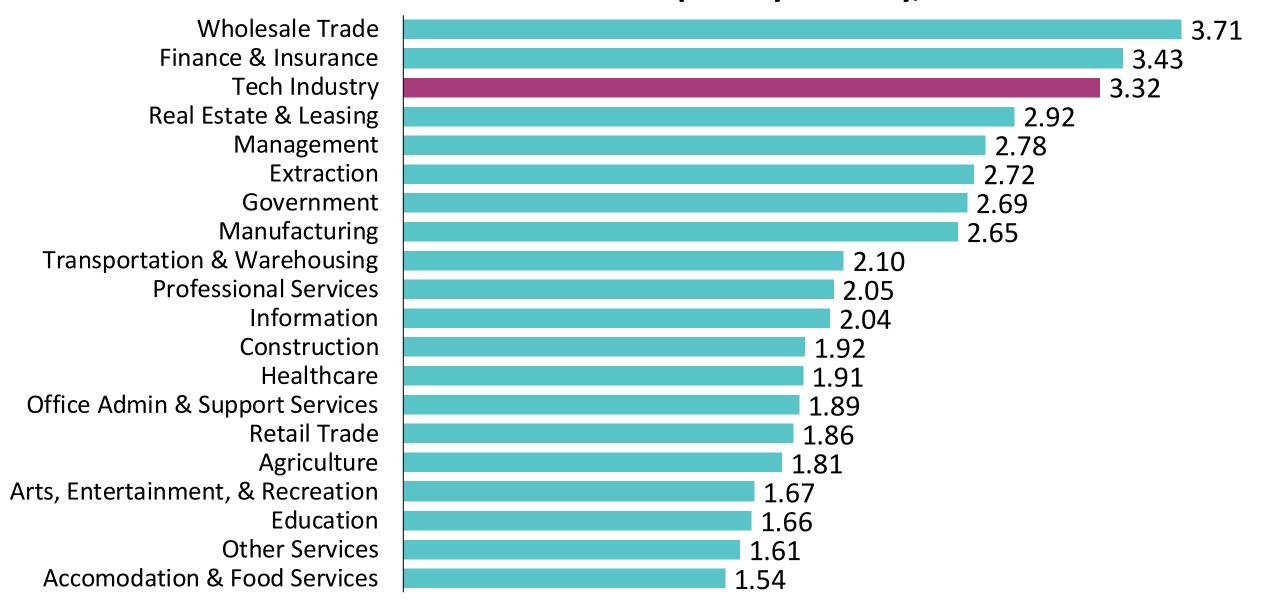


### North Carolina Tech Industry Top Establishment Change, 2007-2023

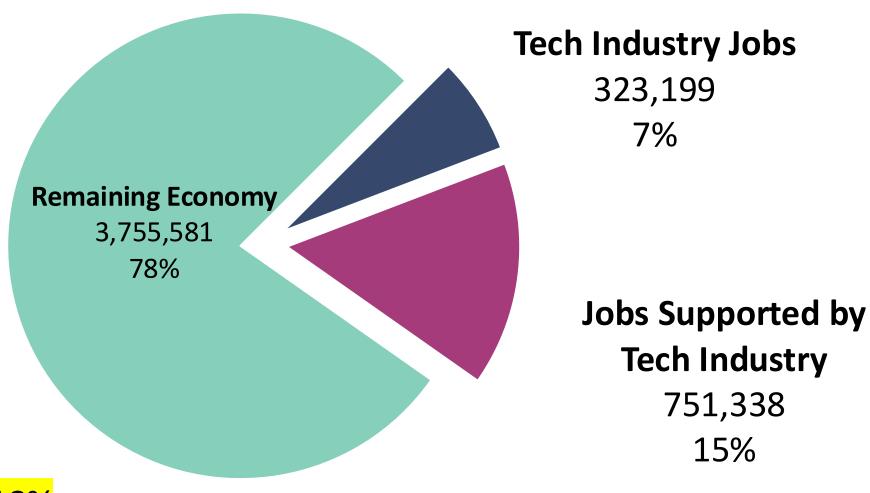




### North Carolina Job Multiplier by Industry, 2023



### **Tech's Contribution to North Carolina's Economy - 22%**



11 Years Ago, Tech was 18%



# North Carolina Tech Industry by Sub-Categories

Technology Categories	Employment, 2023	Employment Change, 2022- 2023	Employment Change, 2018- 2023	
Energy Tech	14,705	3.8%	7.3%	
Enviro Tech	23,254	6.2%	-5.8%	
Life Sciences	110,356	3.4%	27.0%	
IT	174,884	3.3%	19.2%	
TOTAL TECH	323,199	3.6%	18.8%	



# North Carolina Tech Industry by Output Groups

Output Group	Employment, 2023	Employment Change, 2022- 2023	Employment Change, 2018- 2023	
Tech Services	257,021	4.1%	24.4%	
Tech Manufacturing	66,178	1.6%	1.2%	
TOTAL TECH	323,199	3.6%	18.8%	

11 Years Ago, There were 64,585 Tech Manufacturing Workers



# North Carolina Tech Industry by Output Groups

Output Group	Employment, 2023	Employment Change, 2022- 2023	Employment Change, 2018- 2023	
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Tech Manufacturing	66,178	1.6%	1.2%	
TOTAL TECH	323,199	3.6%	18.8%	

11 Years Ago, There were 64,585 Tech Manufacturing Workers



## North Carolina Average Annual Earnings by Subgroups

Sub-Categories	North Carolina	North Carolina (Purchasing Power)	National Average	
Energy Tech	\$148,900	\$158,100	\$175,600	
Environmental Tech	\$84,900	\$90,100	\$96,600	
Life Sciences	\$138,200	\$146,700	\$153,500	
IT	\$149,000	\$158,200	\$187,600	
Output Group	North Carolina	North Carolina (Purchasing Power)	National Average	
Tech Services	\$140,300	\$149,000	\$169,800	
Tech Manufacturing	\$142,100	\$150,900	\$165,900	
TOTAL TECH INDUSTRY	\$140,700	\$149,300	\$169,200	

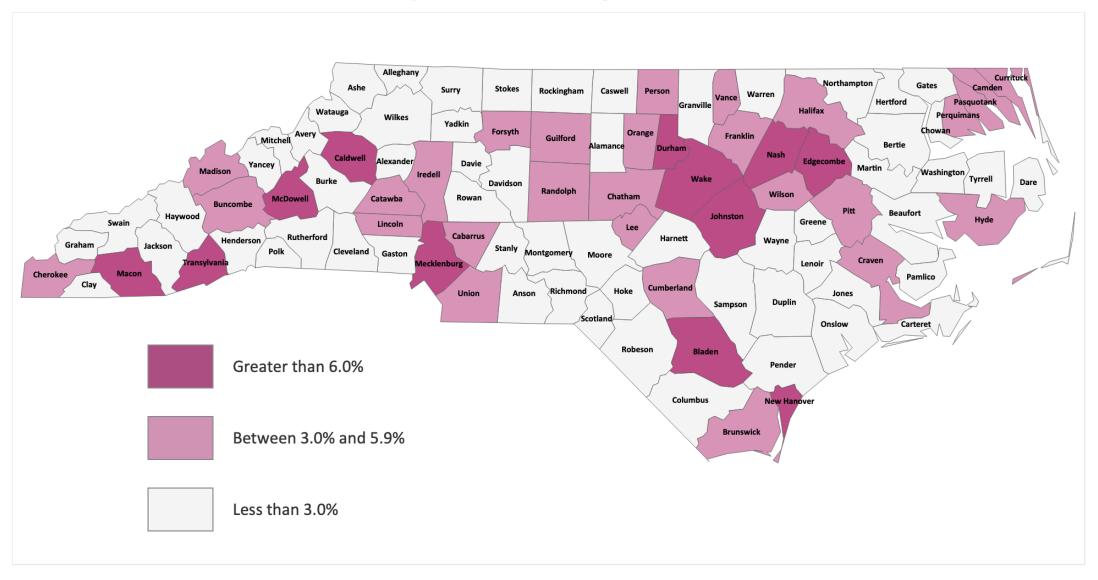


# Tech Industry Super Sub-Industries

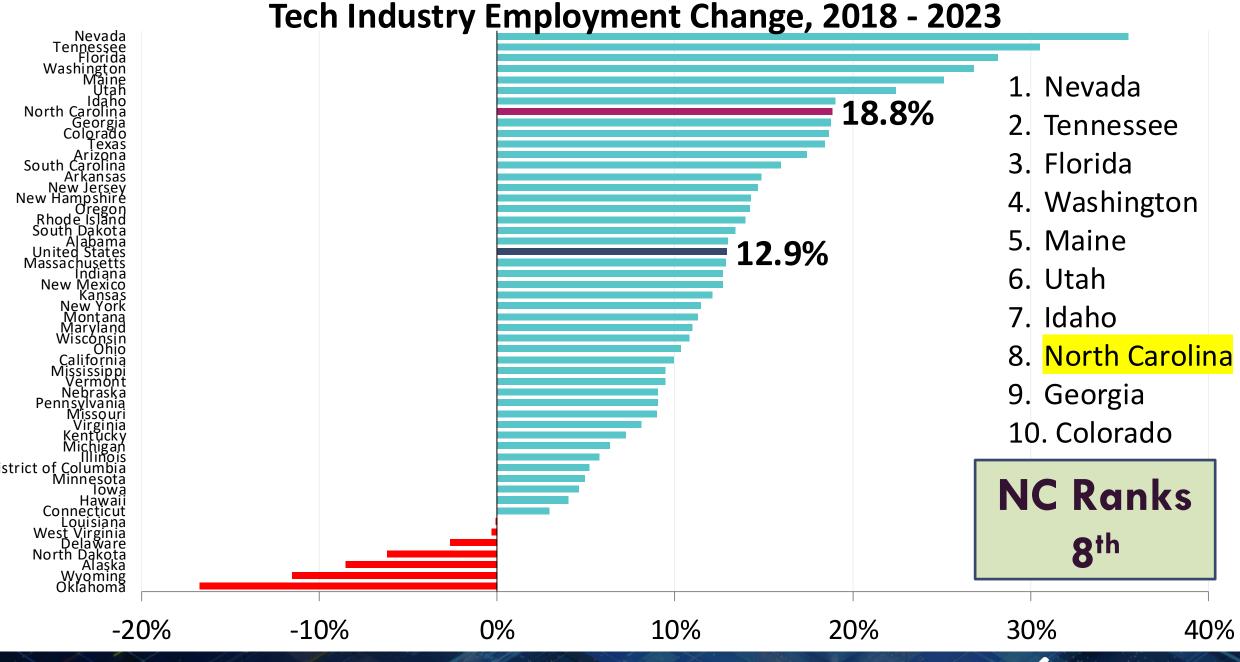
Sub-Industries	2023 Employment	Employment Change (2018-2023)	Concentration
Software	103,778	42%	1.06
Internet, Social Media, & Telecom	44,015	-8%	0.92
Engineering, Environmental, & Clean Tech	43,643	13%	0.95
R&D and Testing	42,068	35%	1.07
Life Sciences Manufacturing	34,230	13%	1.46
Electronics Hardware	27,091	5%	0.95
Other Energy and Power Generation	13,825	5%	0.45
Remediation and Waste Management	13,669	18%	0.86
Renewable Energy	880	78%	0.88
TOTAL TECH SECTOR	323,199	19%	0.98



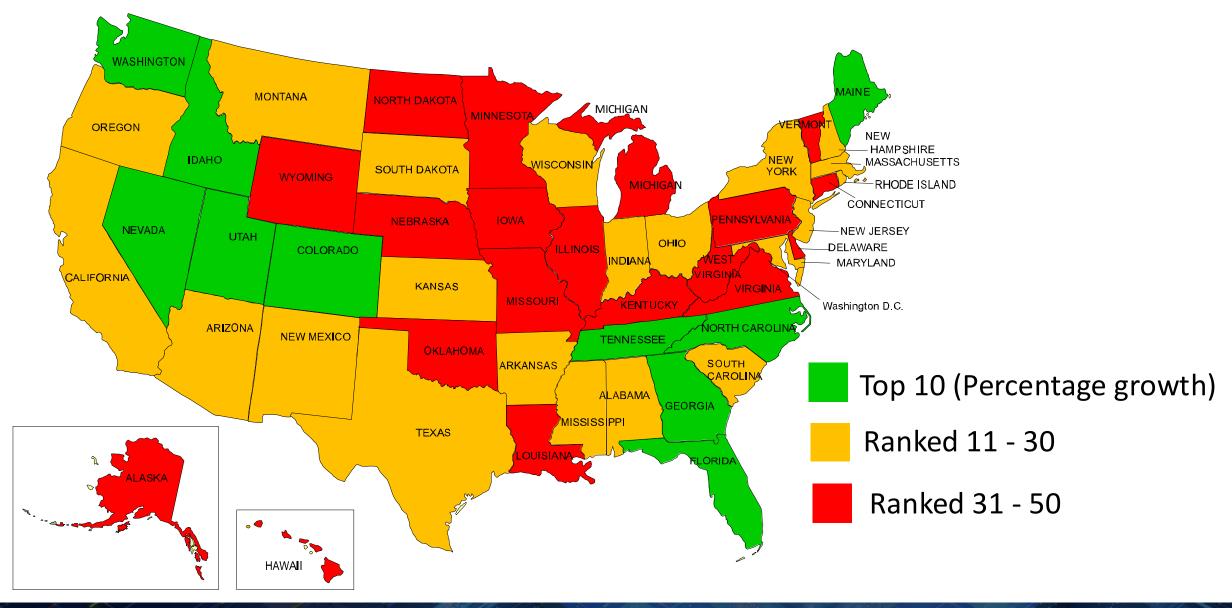
#### Tech Industry Jobs as a Percentage of Total Jobs, 2023

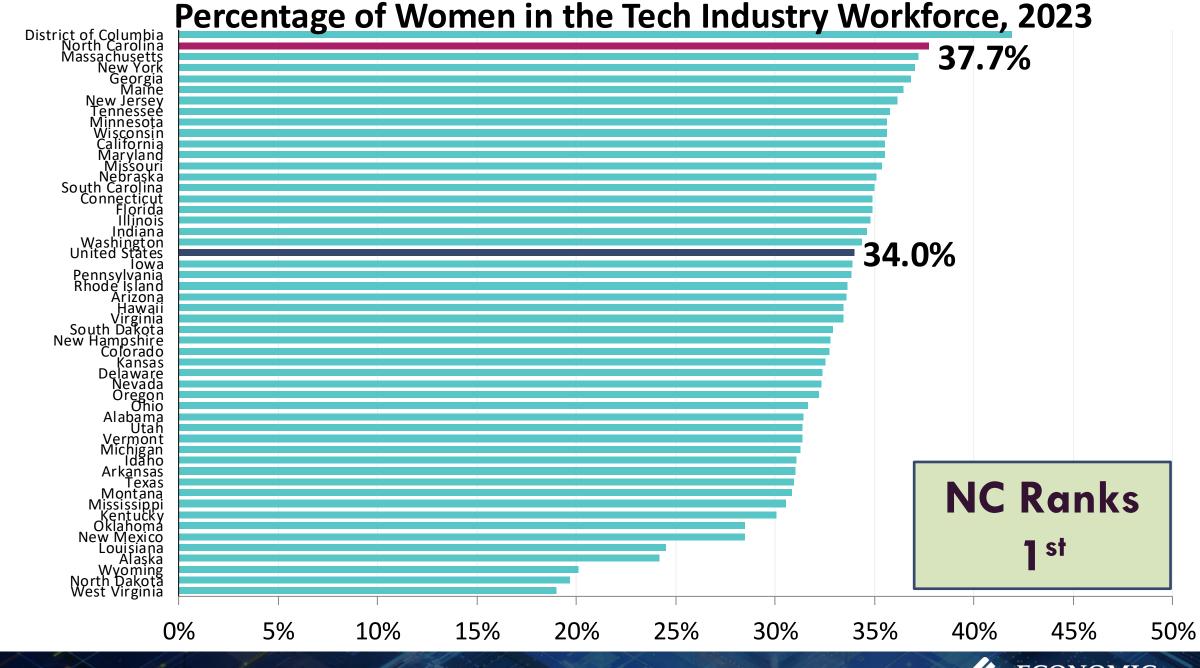


Source: EL calculations based on Lightcast 2024.4



### **Tech Industry Employment Change, 2018 - 2023**



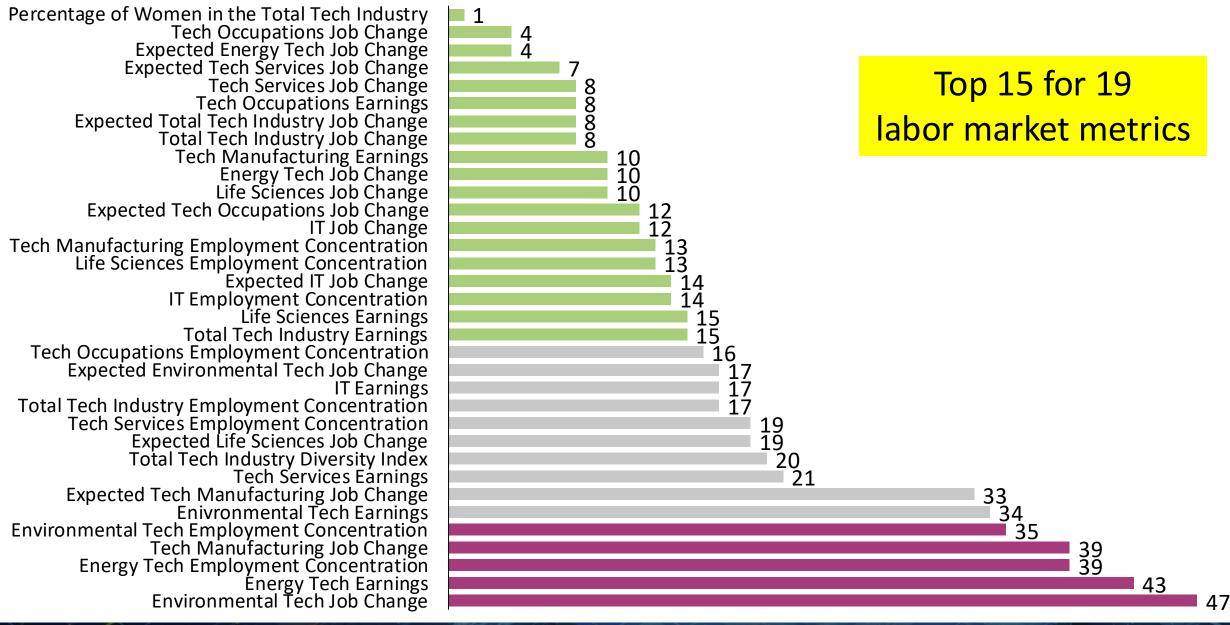


# North Carolina Tech Industry State Rankings

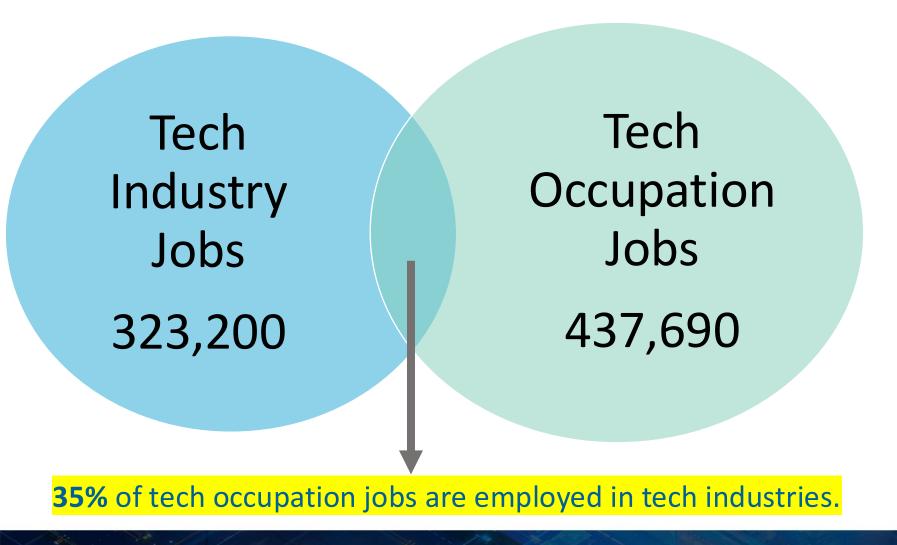
Metric	Value	Rank
Total Tech Industry Employment Concentration (2023)	0.98	17
Total Tech Industry Job Change (2018-2023)	18.8%	8
Expected Total Tech Industry Job Change (2024-2029)	10.5%	8
Avg Earnings for Total Tech Industry with Purchasing Power (2023)	\$149,346	15
Percentage of Women in the Total Tech Industry Workforce (2023)	37.7%	1
Total Tech Industry Diversity Index (2023)	80.4	20

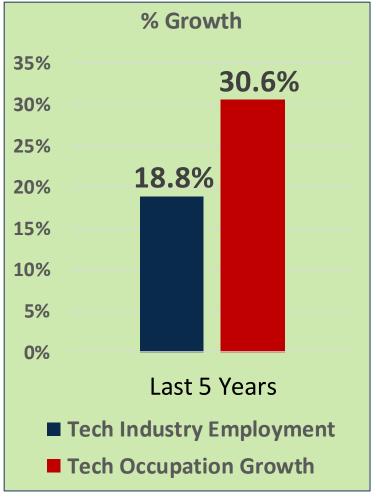


### North Carolina State Rankings for Tech Industries and Occupations



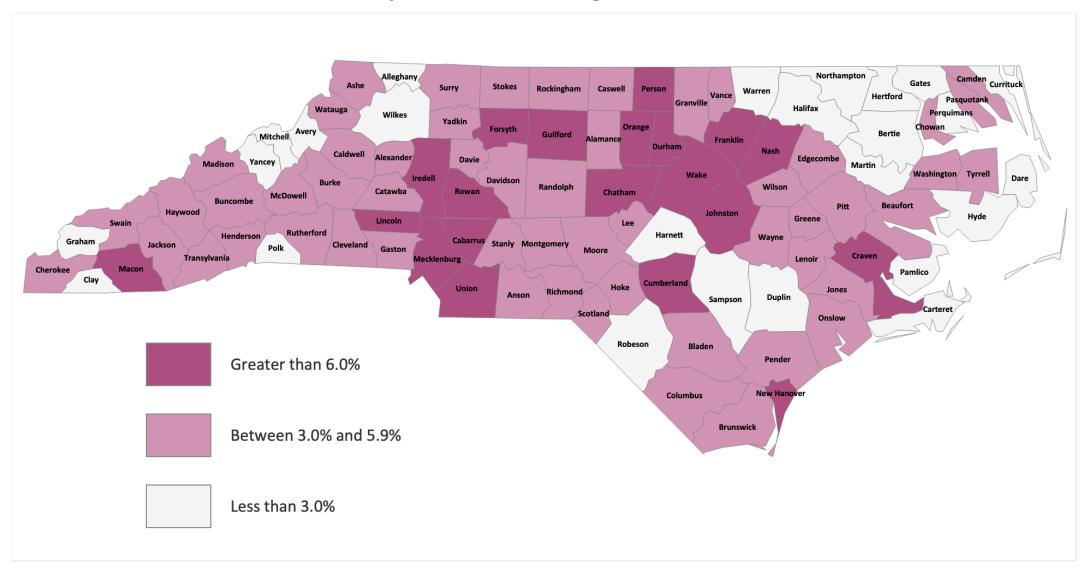
# Staffing Patterns of Tech Industries and Tech Occupations







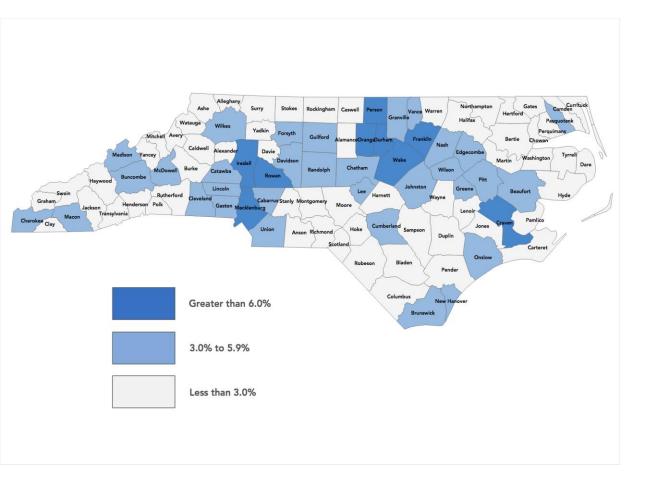
#### Tech Occupations as a Percentage of Total Jobs, 2023



Source: EL calculations based on Lightcast 2024.4

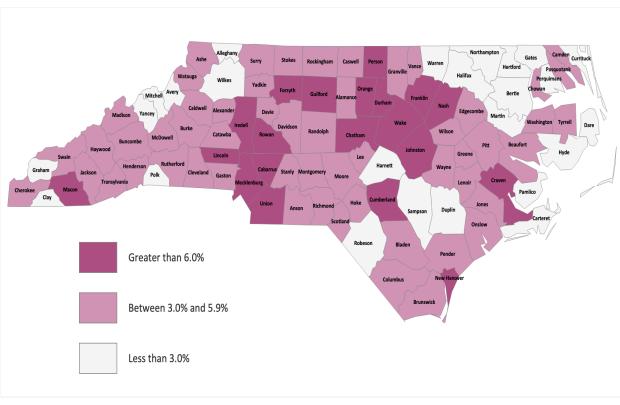


# 2016



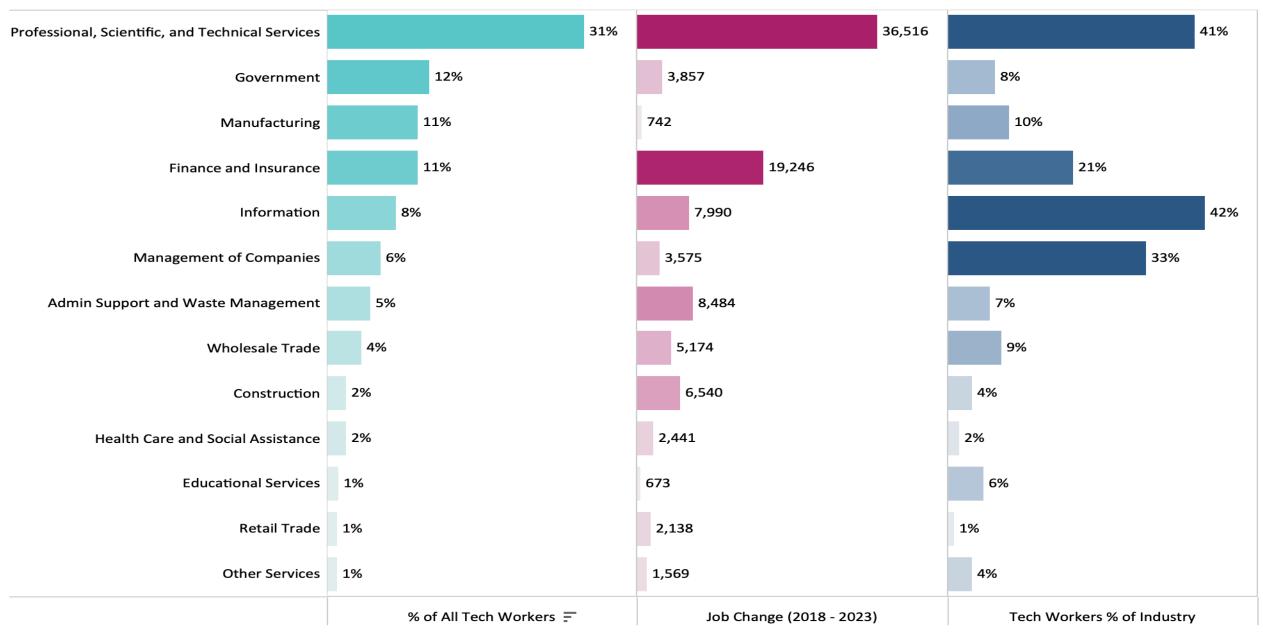
# 2023

#### Tech Occupations as a Percentage of Total Jobs, 2023



Source: EL calculations based on Lightcast 2024.4

#### North Carolina's Top Industries Employing Tech Occupations, 2023



# **Top Tech Occupations**

Occupation	2023 Employment	Employment Change (2018-2023)	Median Annual Wage
Software Developers	58,210	+70%	\$130,620
Market Research Analysts	27,920	+57%	\$74,900
Computer Systems Analysts	25,700	+1%	\$105,770
Computer User Support Specialists	22,280	+2%	\$56,990
Management Analysts	21,680	+18%	\$100,570
Computer and Information Systems Managers	21,455	+79%	\$164,220
Financial and Investment Analysts	10,530	+31%	\$99,990
Industrial Engineers	10,130	+12%	\$94,040
Network and Computer Systems Administrators	9,960	-11%	\$94,120
Computer Network Architects	8,170	+66%	\$120,660

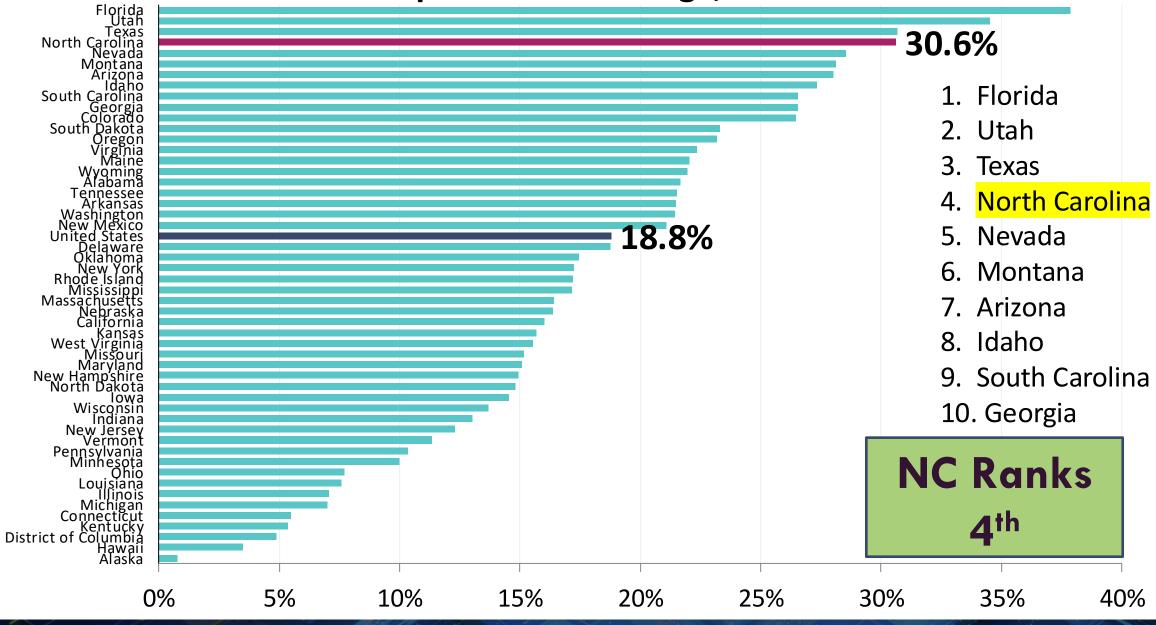
## **Top Top Occupations by Growth**

Top Five in Net Job Growth		Top Five in Growth Percentage	
Software Developers	+23,910	Electro-Mechanical Technicians	+215%
Market Research Analysts	+10,110	Life Scientists	+184%
Computer and Information Systems Managers	+9,460	Database Architects	+151%
Data Scientists	+3,845	Data Scientists	+142%
Management Analysts	+3,290	Food Science Technicians	+107%

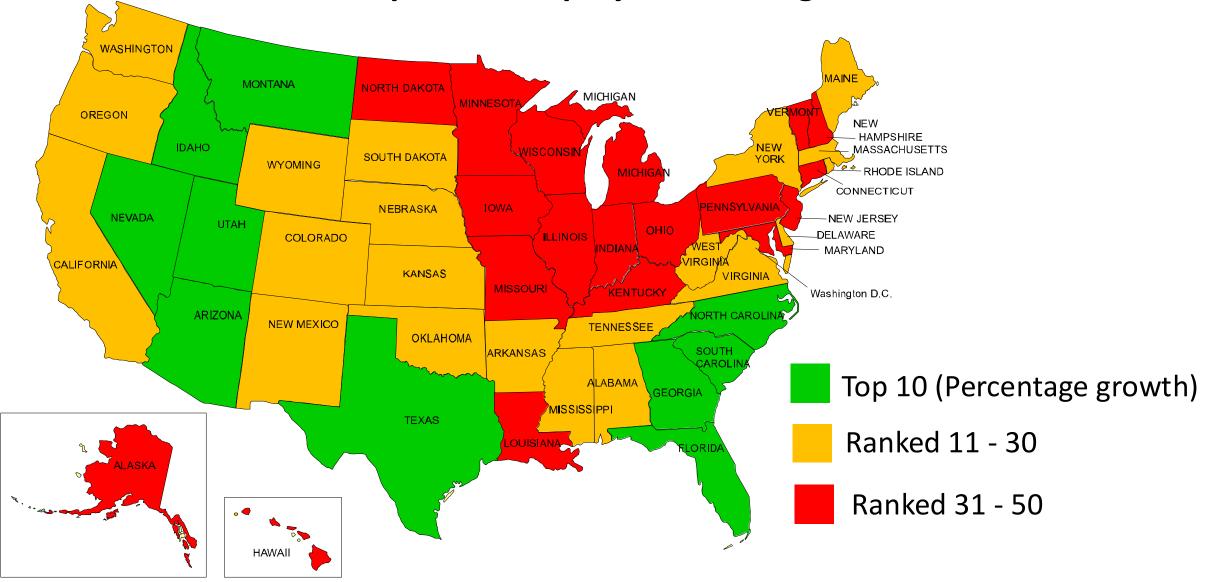
### **Demographic Representation in Tech Occupations**

Demographic	Tech Occupations	NC Population	Index
Women	37%	51%	72.6
Men	63%	49%	128.7
Demographic	Tech Occupations	NC Population	Index
White	67%	61%	110.2
Black or African American	15%	21%	73.3
Asian	11%	4%	299.9
Hispanic or Latino	5%	11%	39.7
Two or More Races	2%	2%	93.7
American Indian or Alaska Native	0.3%	1.0%	33.7
Native Hawaiian or Other Pacific Islander	0.1%	0.1%	88.4

### Tech Occupations Job Change, 2018-2023



### **Tech Occupations Employment Change, 2018 - 2023**



#### Median Annual Earnings for Tech Occupations Adjusted for Purchasing Power, 2023 Virginia California Alabama Washington Delaware Maryland New Mexico District of Columbia North Carolina Massachusetts Colorado New York \$101,646 New York New Jersey United States \$97,094 Connecticut Minnesota Texas Illinois Ohio Georgia Michigan Iowa Oklahoma Arizona Rhode Island Kansas Utah Nebraska Pennsylvania Alaska North Dakota Missouri South Carolina Indiana Wisconsin New Hampshire Tennessee Oregon Idaņo Kentucky West Virginia Florida **NC Ranks** Wyoming South Dakota Louisiana Arkansas Nevada Montana Vermont Mississippi Maine

\$80,000

\$90,000



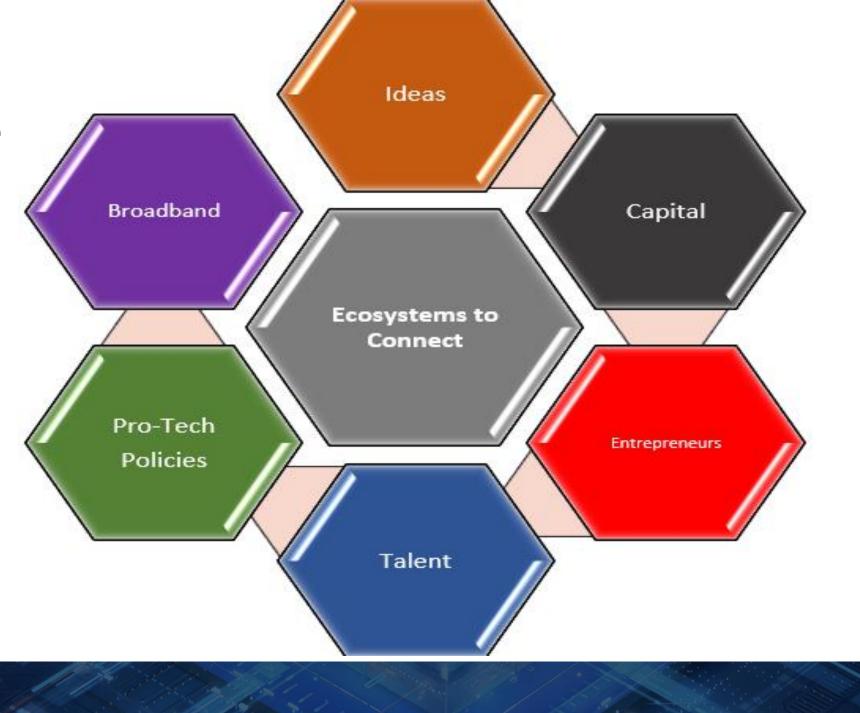
Hawaii

\$50,000

\$60,000

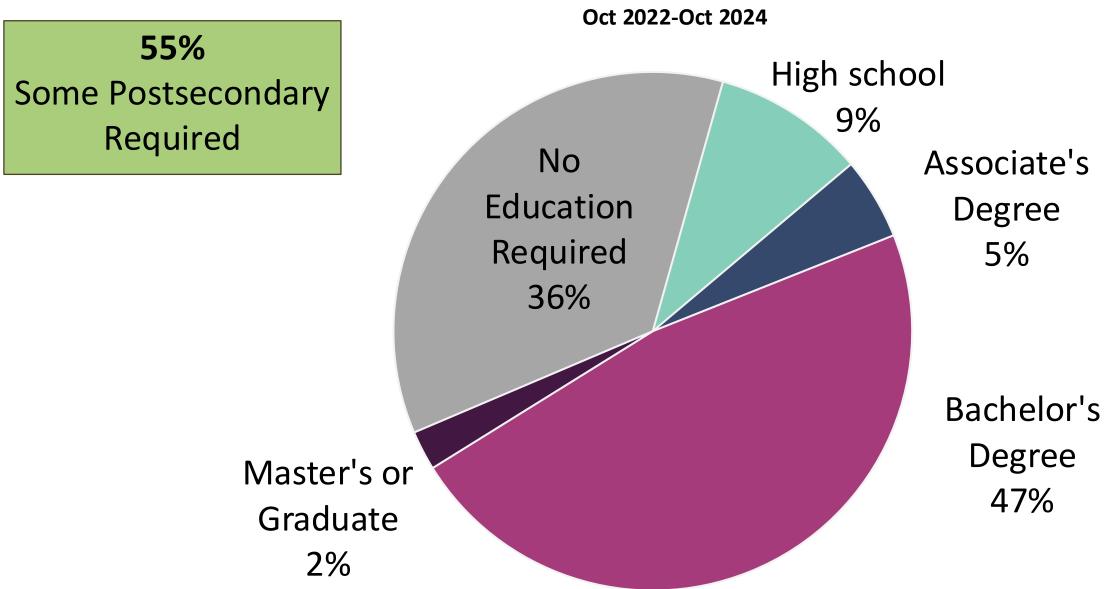
\$70,000

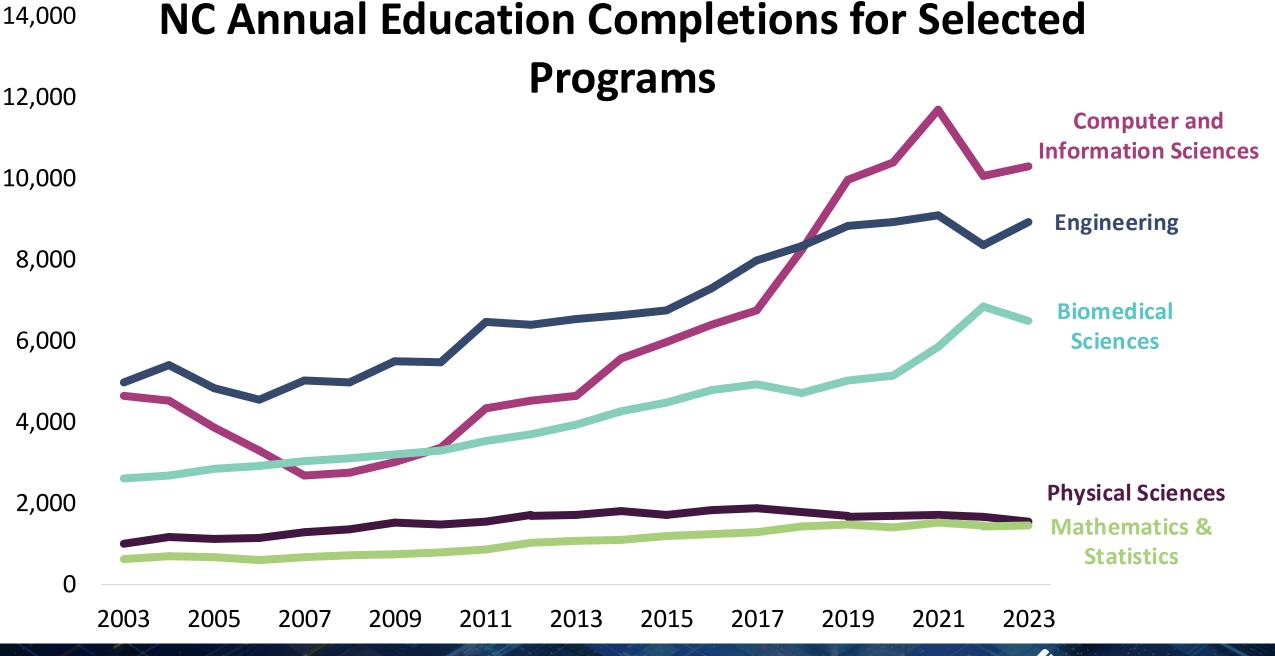
Tech
Infrastructure
Metrics



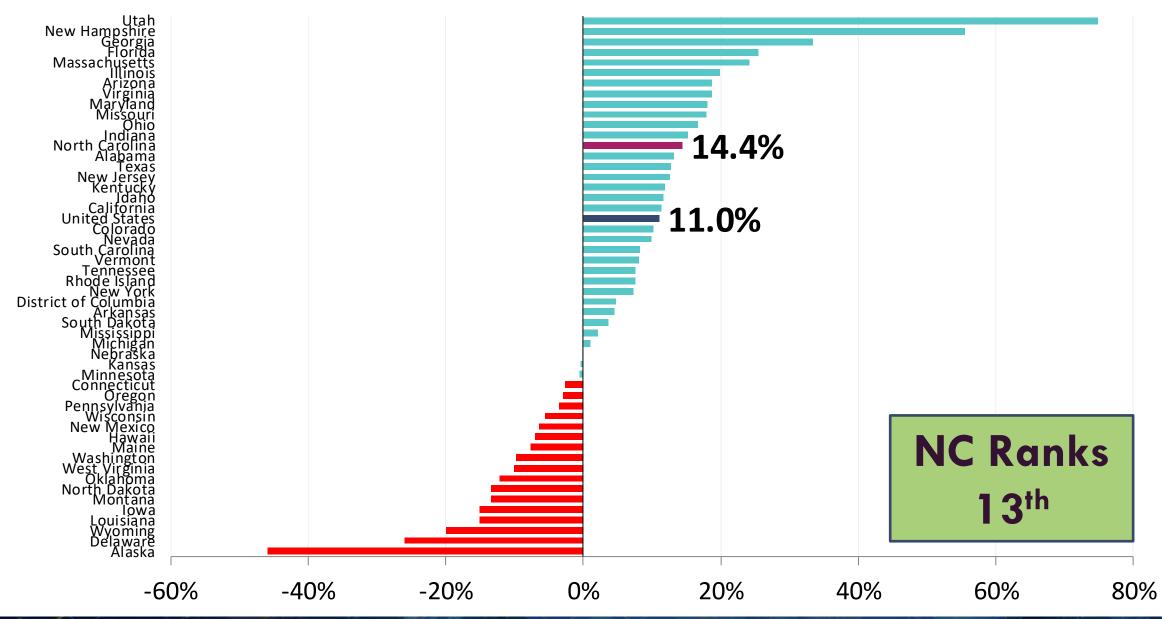
Projected Working Age (25 to 64) Population Change (2024-2034) 8.2% 3.5% New Hampshire **NC Ranks** Massachusetts Pennsylvania California District of Columbia New York Louisiana -10% -5% 0% 10% 15% 20% 5% 25%

### Minimum Education Level Required in NC for Tech Job Postings

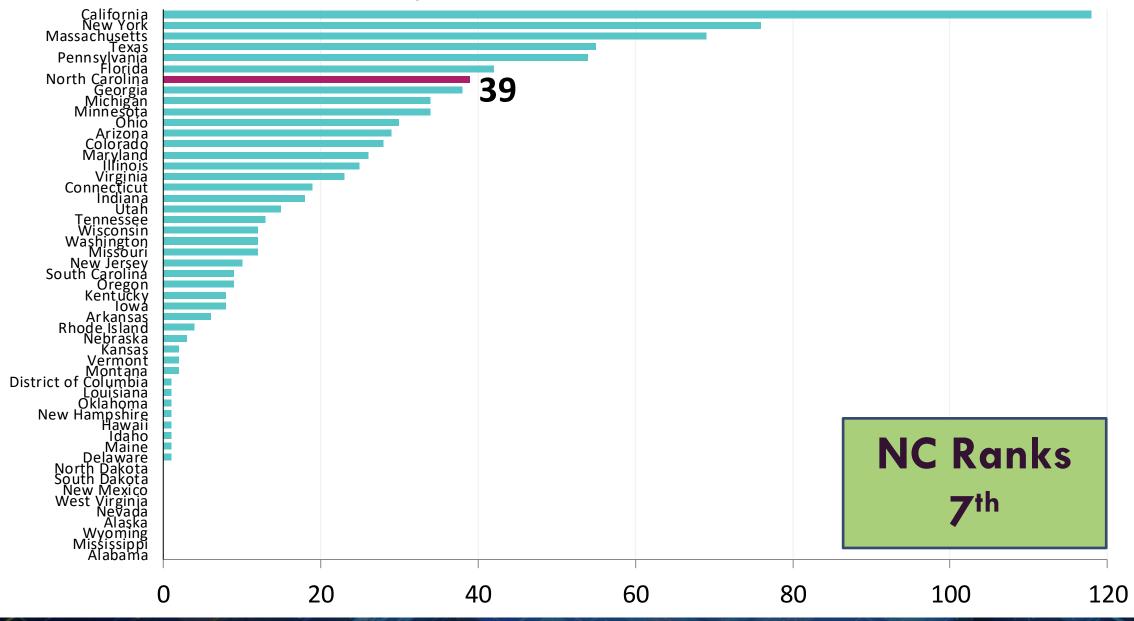




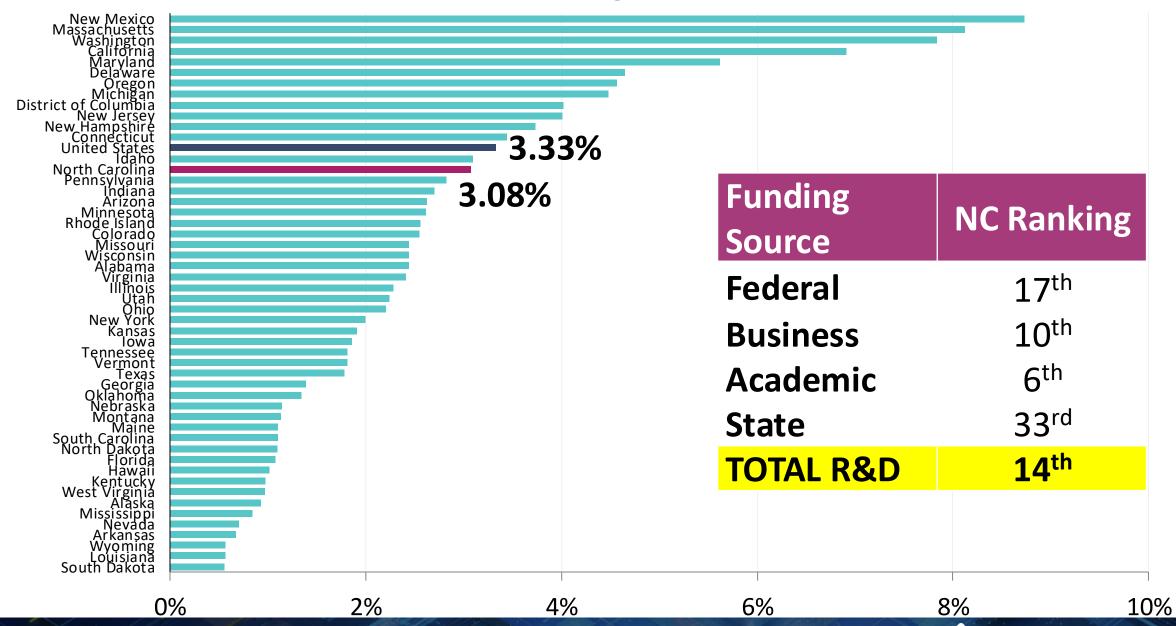
#### Percent Change in STEM Education Program Completions (2018-2023)



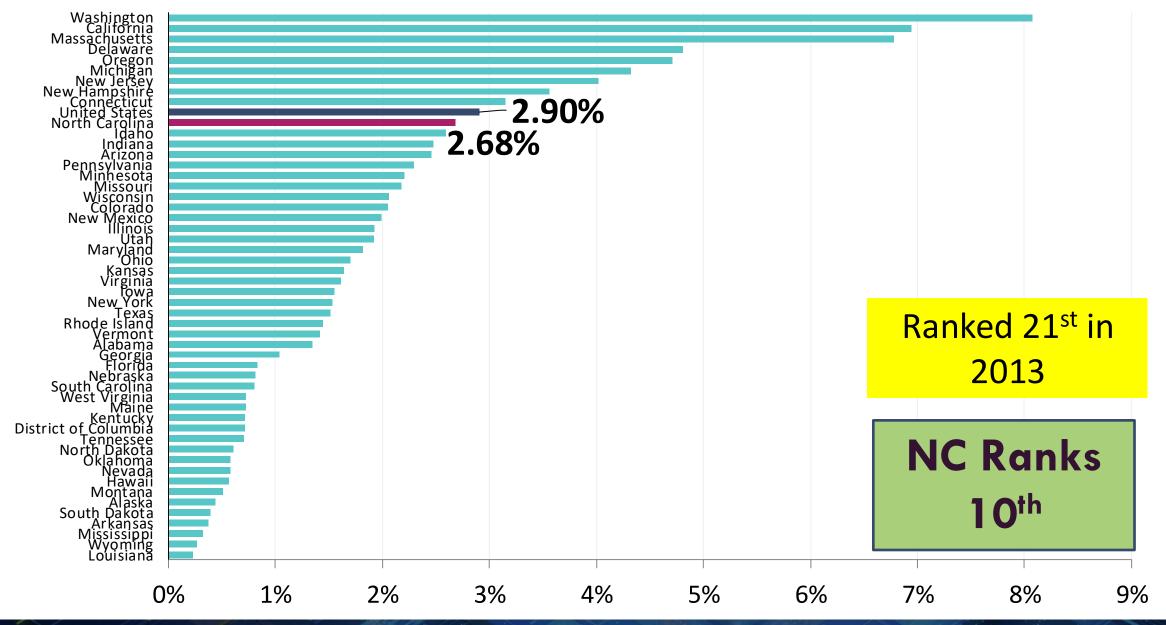
#### **Start-Ups from Universities (2023)**

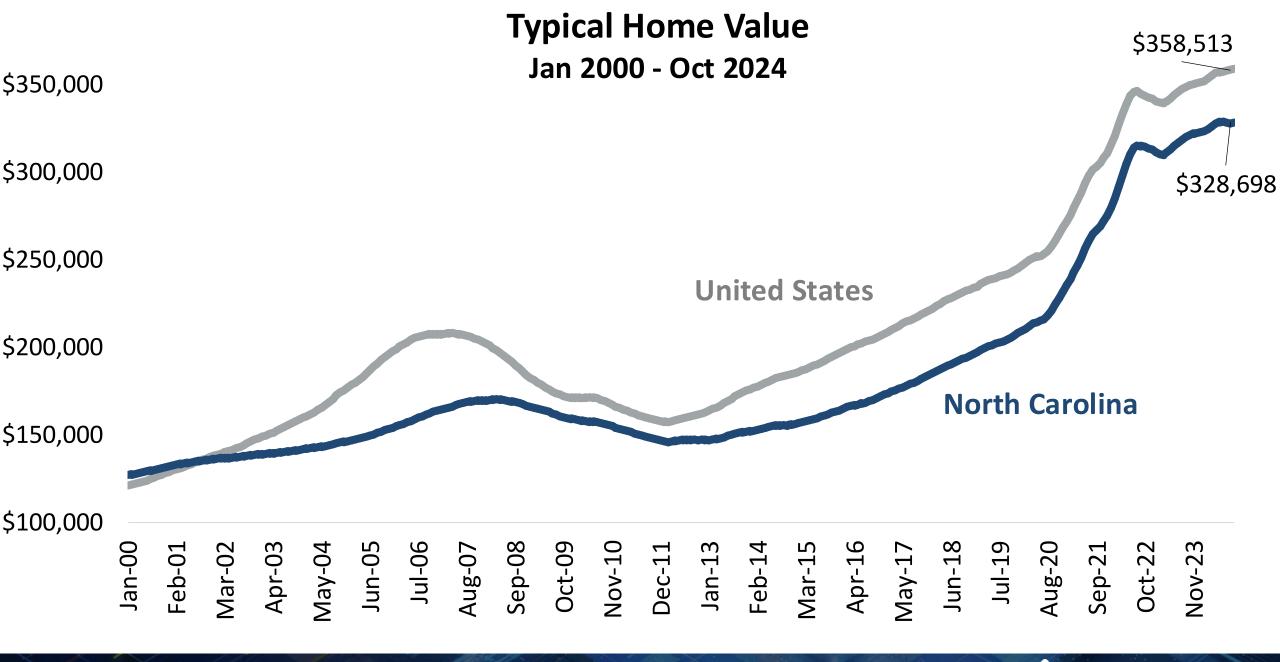


#### Total R&D as a Percentage of GDP (2021)

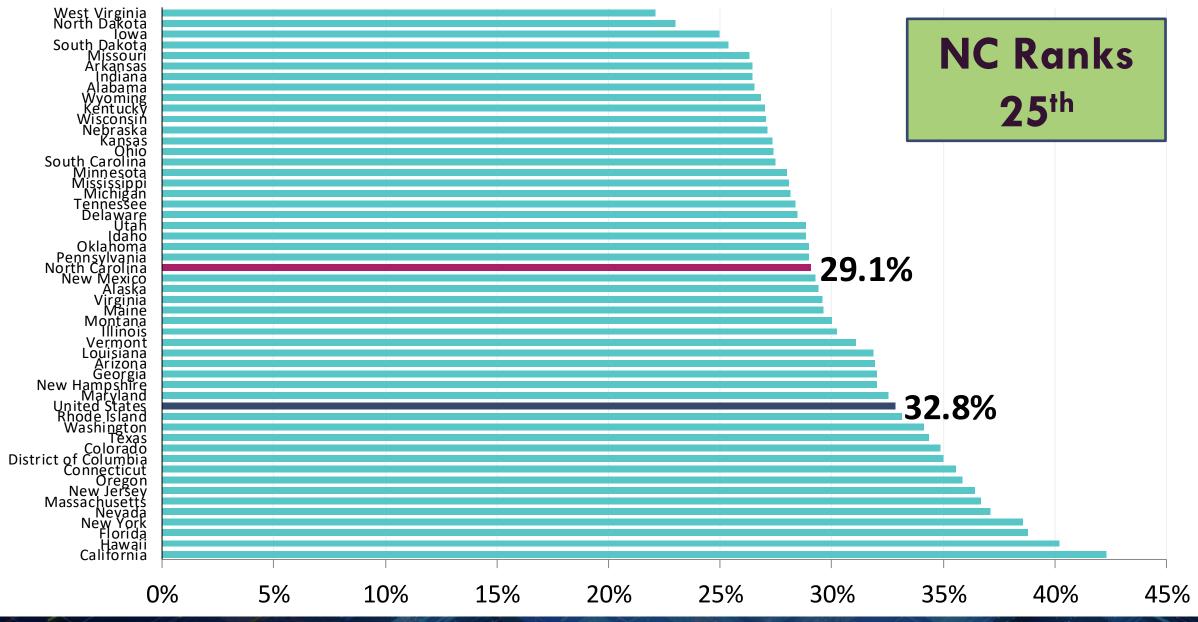


#### Business Performed R&D as a Percentage of Private Industry Output (2021)

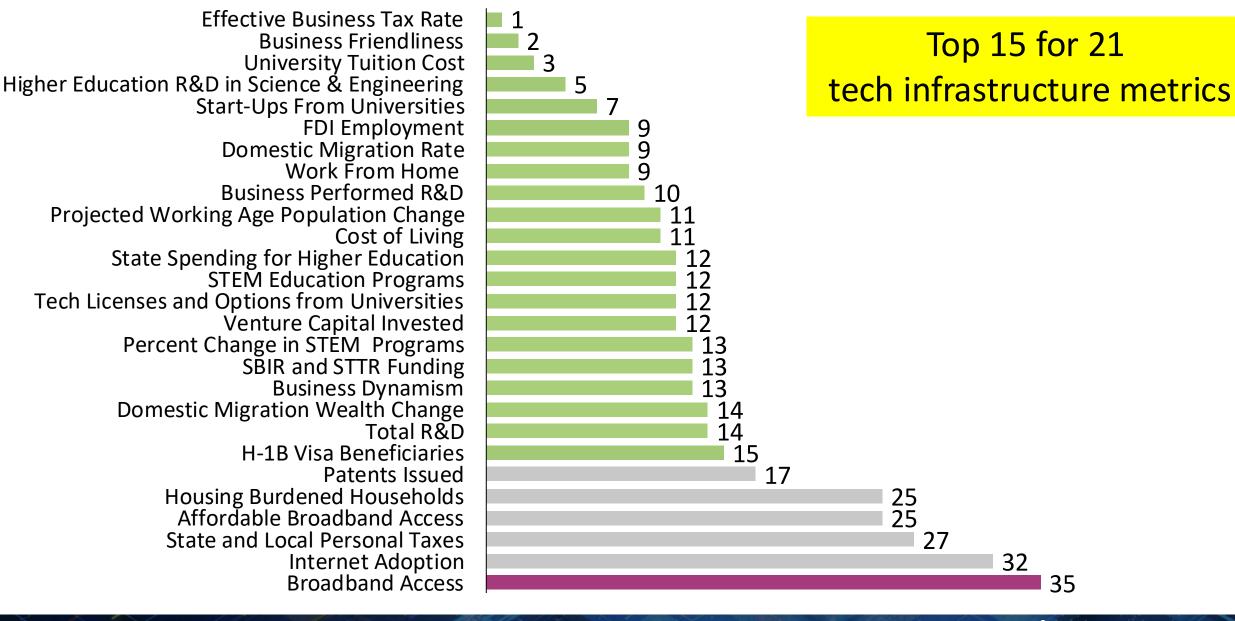




#### **Share of Housing Burdened Households (2023)**

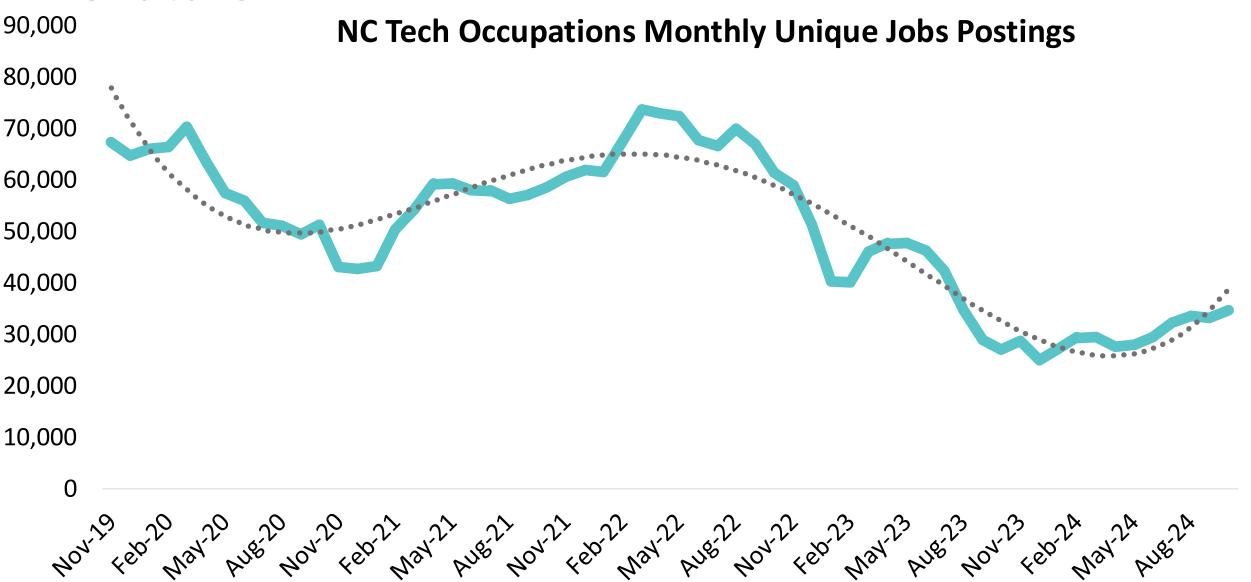


#### North Carolina State Rankings for Tech Infrastructure Indicators

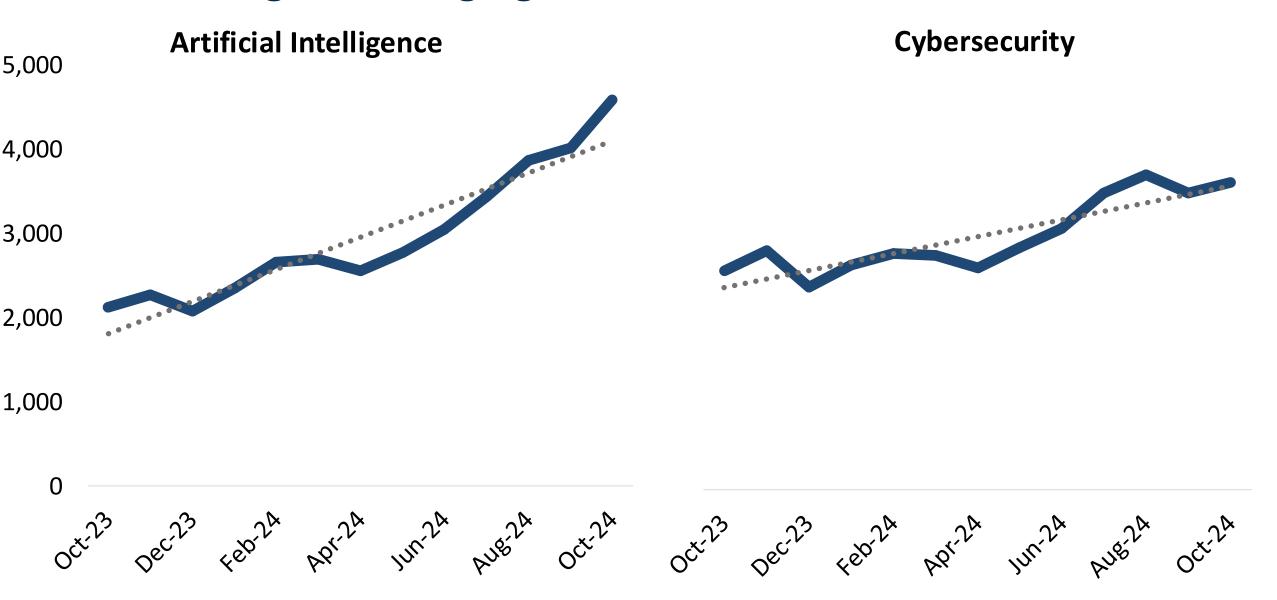




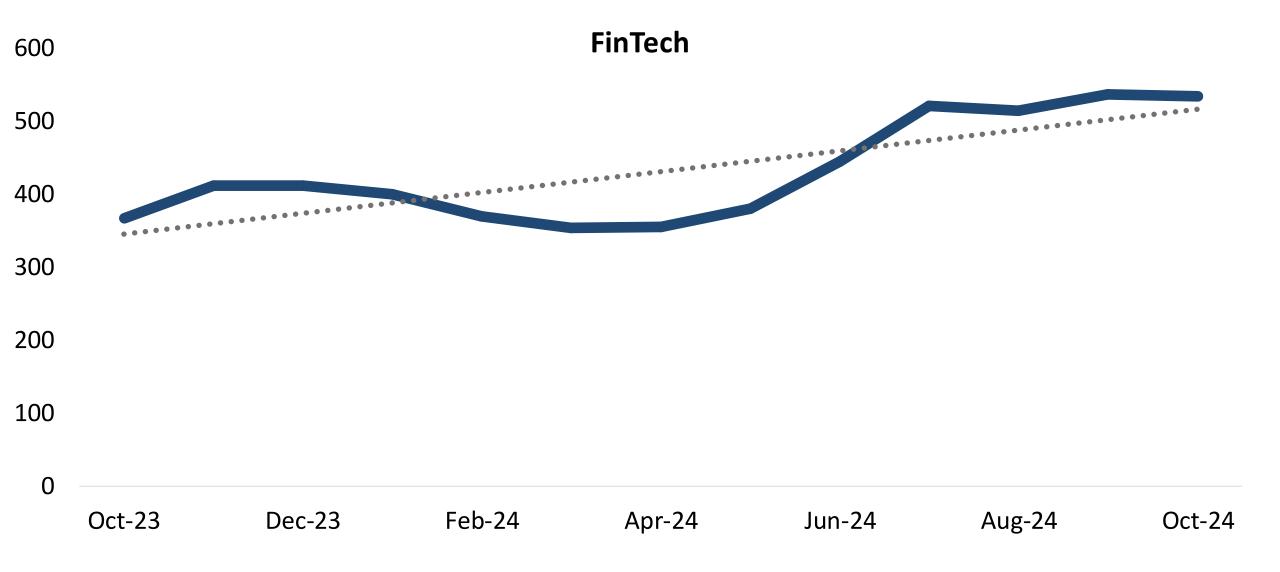
#### The future...



#### **NC Job Postings in Emerging Tech Markets**



#### **NC Job Postings in Emerging Tech Markets**



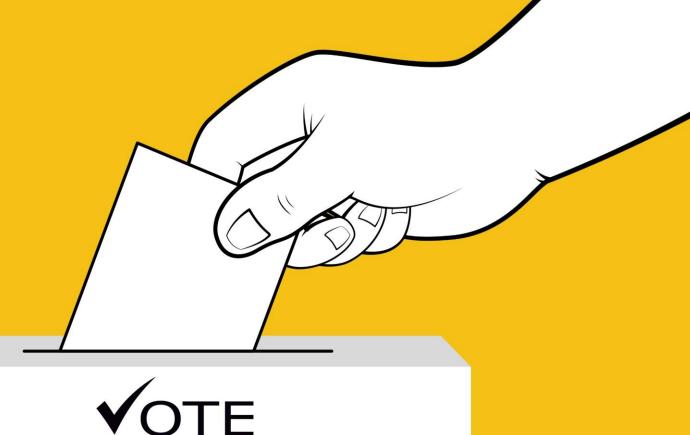






## 2024 Election Impacts

- Taxes
- Tariffs-Trade Wars
- Immigrants
- Crypto
- Stock Markets
- Deficits



# **Uncertainty**

Federal Funding/Role **Geopolitics Industrial Policy Federal Reserve Power Generation Choices Migration Patterns Military** 

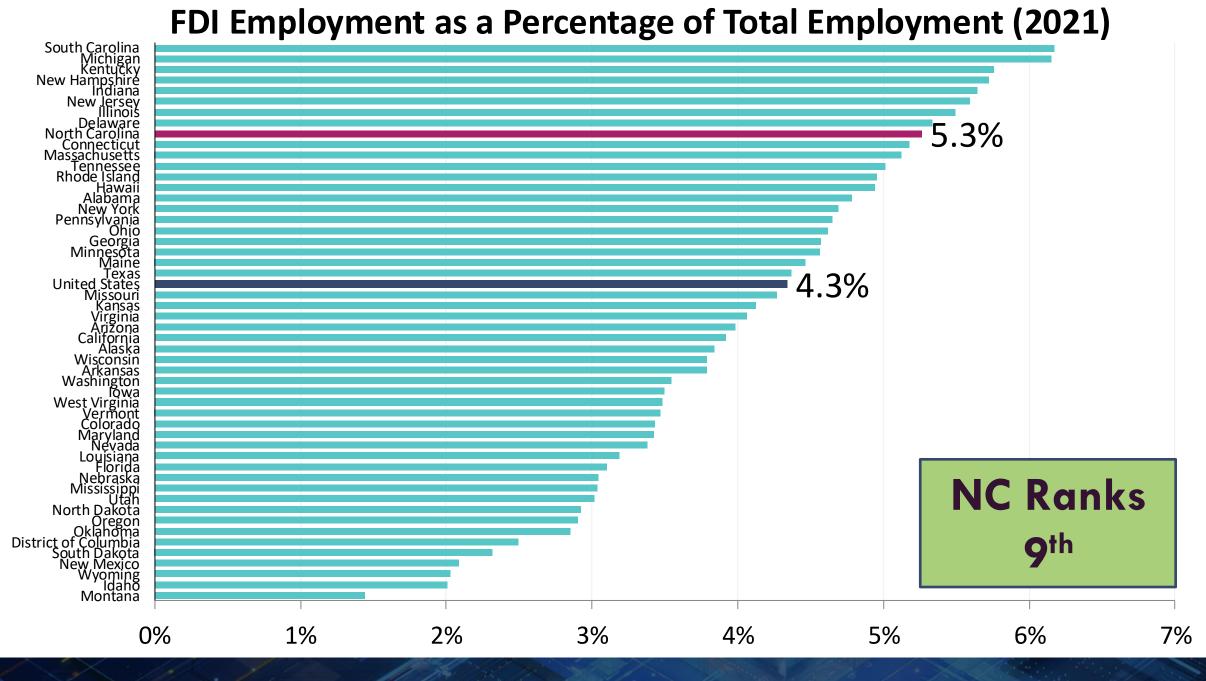
**Consumer Response Business Investment** 



### Research and Development Impact on NC

FUNDING SOURCE	NC RANKING
Federal	17th
Business	10th
Academic	6th
State	33rd
TOTAL R&D	14th



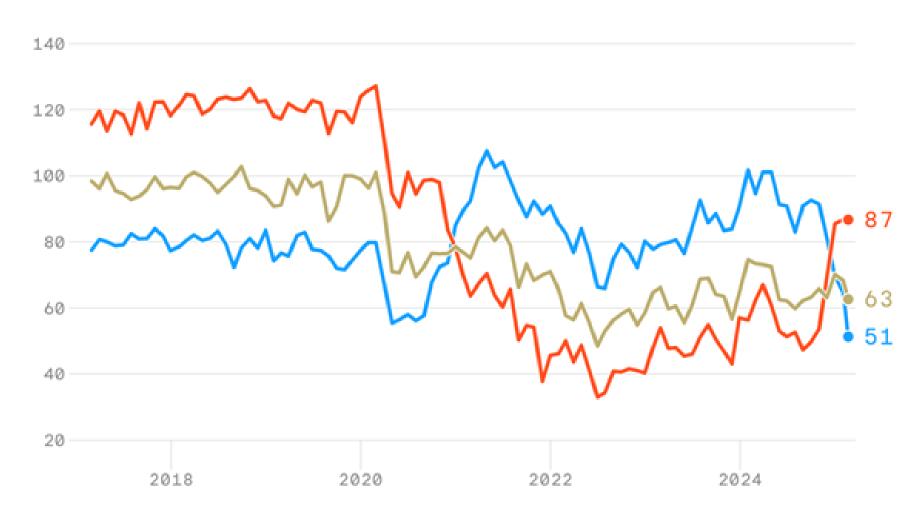




## University of Michigan consumer sentiment index by political party

Monthly; February 2017 to February 2025





Data: University of Michigan: FactSet: Chart: Axios Visuals

# Q&A



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