Partnership for Attainment: Regional Indicators

'AREA' Refers to the following geography: Anson, Cabarrus, Gaston, Iredell, Lincoln, Mecklenburg, Rowan, Stanly and Union Counties

'METRO' Refers to the following geography: Charlotte-Gastonia-Concord, NC-SC MSA

'METRO PERCENTILE' ranks against all metropolitan areas, where 1 = highest centile value; 100 = lowest centile value

Indicator Sections

- 1 Basic Demographic and Economic Information
- **2** Labor Supply
- 3 Labor Demand
- 4 Quality of Local Institutions

- 1 Basic Demographic and Economic Information
 - Demographic, economic, and industry context

TOTAL POPULATION

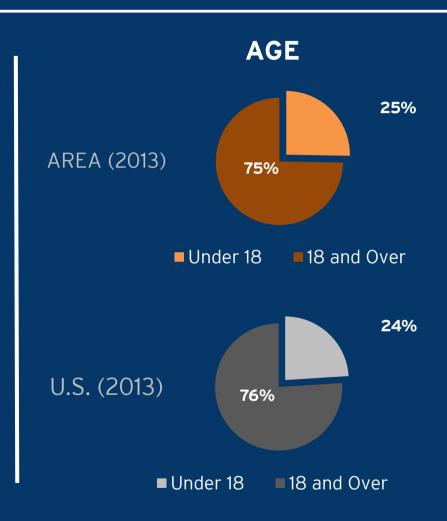
Population Area (2013)

2,006,660

Population Growth Metro (2000-2012)

37.6%

Metro Percentile Rank: 9





Population by Race / Ethnicity (2013)
70%
60%
50%
40%
30%
20%
10%

Black

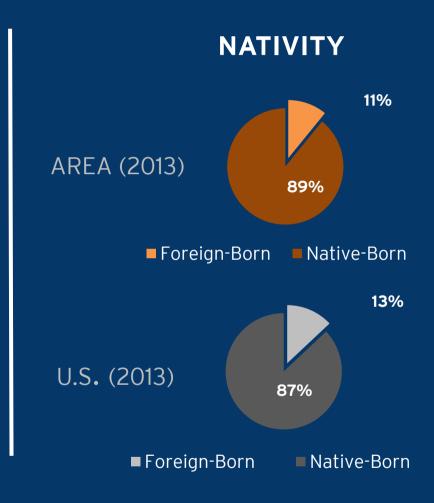
AREA

Asian

■U.S.

0%

White



Hispanic

INCOME

Area Median Household Income (2013)

\$48,228

U.S. - \$53,046

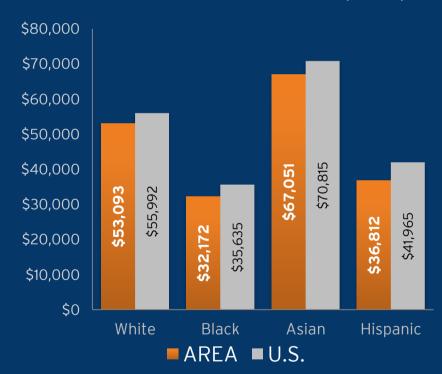
Metro Cost of Living Index (2012)

94

U.S. - 100

INCOME BY RACE / ETHNICITY

Median Household Income (2013)



UNEMPLOYMENT

Unemployment Rate Area (2013)

9.7%

U.S. - 8.7%



Unemployment Rate (2013)

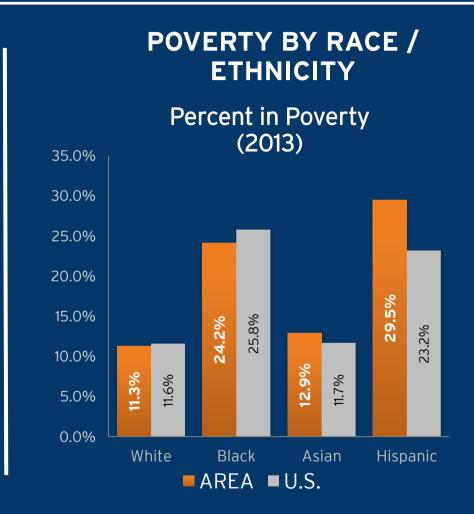


POVERTY

Percent in Poverty (2013)

15.1%

U.S. - 14.3 %



Charlotte, NC

| 10 Largest Industries in Metro | Employment | Employm | ent Share | Growth (2 | 2010-2013) |
|--|------------|---------|-----------|-----------|------------|
| 10 Largest madstries in Metro | (2013) | Metro | U.S. | Metro | U.S. |
| Government | 120,660 | 13.6% | 15.7% | 2.5% | -2.6% |
| Retail trade | 96,731 | 10.9% | 10.7% | 7.8% | 2.9% |
| Accommodation and food services | 78,506 | 8.9% | 8.4% | 12.7% | 5.8% |
| Health care and social assistance | 75,984 | 8.6% | 12.2% | 6.4% | 3.6% |
| Manufacturing | 73,301 | 8.3% | 8.5% | 9.2% | 3.4% |
| Administrative and support and waste management and remediation services | 69,859 | 7.9% | 5.8% | 16.4% | 8.3% |
| Finance and insurance | 61,145 | 6.9% | 4.2% | 4.6% | 1.3% |
| Professional; scientific; and technical services | 47,953 | 5.4% | 5.7% | 8.6% | 6.1% |
| Wholesale trade | 46,043 | 5.2% | 4.1% | 5.4% | 4.1% |
| Construction | 40,755 | 4.6% | 4.0% | 9.6% | 2.3% |
| All Other Industries | | 20% | 21% | | |

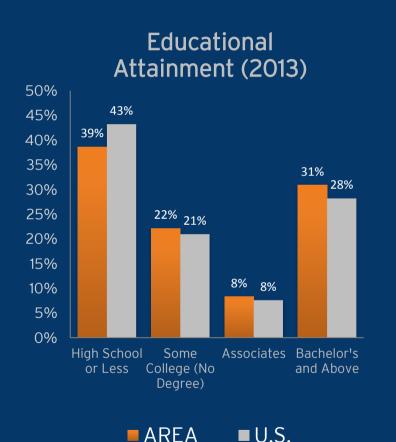
B | Metropolitan Policy Program at BROOKINGS

| 10 Largest Occupations in Metro by Share of Employment Relative to United States | Share of Metro Employment (2013) | Share of U.S. Employment (2013) |
|---|-------------------------------------|---------------------------------|
| Office and Administrative Support Occupations | 16.5% | 16.2% |
| Sales and Related Occupations | 12.2% | 10.6% |
| Food Preparation and Serving Related Occupations | 8.8% | 9.0% |
| Transportation and Material Moving Occupations | 7.7% | 6.8% |
| Business and Financial Operations Occupations | 6.2% | 5.0% |
| Production Occupations | 6.2% | 6.6% |
| Management Occupations | 5.5% | 4.9% |
| Healthcare Practitioners and Technical Occupations | 5.5% | 5.9% |
| Education, Training, and Library Occupations | 5.0% | 6.3% |
| Installation, Maintenance, and Repair Occupations | 4.0% | 3.9% |
| All Other Occupations | 22.6% | 24.9% |

2 Labor Supply

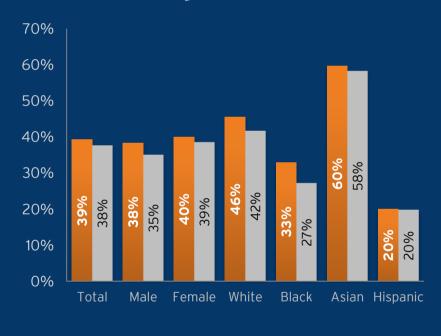
• Education and skills of workers in the region

EDUCATIONAL ATTAINMENT



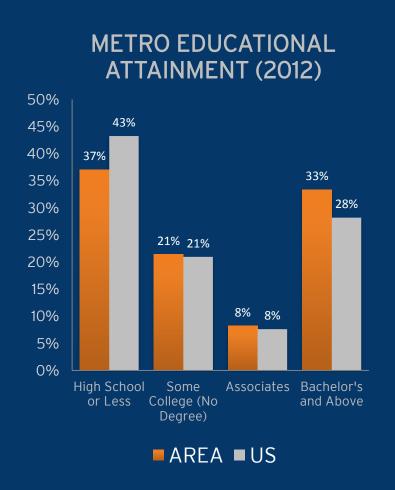
EDUCATIONAL ATTAINMENT BY RACE / ETHNICITY

Share of People with Associates or Higher (2013)

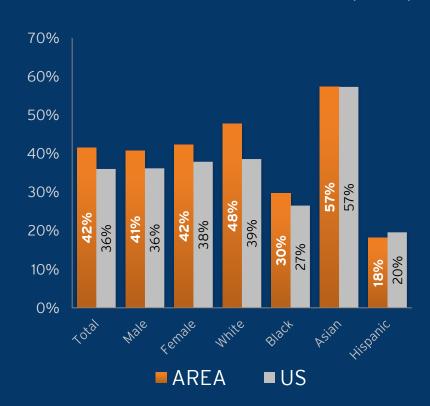


■ AREA ■ U.S.

B | Metropolitan Policy Program at BROOKINGS



METRO PEOPLE 25-64 WITH ASSOCIATES OR HIGHER (2012)



LABOR SUPPLY

Educational Attainment Rate, Associates and Higher (2013)

39%

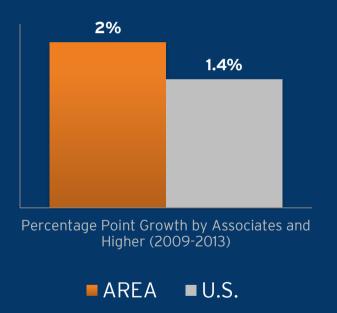
U.S. - 36.1%

Metro Share of Post-Secondary Degree Holders Born In-State (2013)

39%

U.S. - 36%

EDUCATIONAL ATTAINMENT



B | Metropolitan Policy Program

| SHARE OF BACHELOR'S EDUCATED-ADULTS BY FIELD OF DEGREE | | F ALL S (2013) |
|--|-------|-------------------|
| (FOR FIRST MAJOR) | METRO | U.S. |
| Business | 28.0% | 21.3% |
| Education Administration and Teaching | 10.0% | 12.2% |
| Social Sciences | 7.4% | 7.5% |
| Engineering | 7.0% | 7.5% |
| Medical and Health Sciences and Services | 6.3% | 7.1% |
| Psychology | 7.2% | 4.9% |
| Communications | 5.5% | 4.0% |
| Biology and Life Sciences | 4.4% | 4.7% |
| Fine Arts | 4.0% | 4.2% |
| Computer and Information Sciences | 3.7% | 3.2% |
| English Language, Literature, and Composition | 2.3% | 3.1% |
| Criminal Justice and Fire Protection | 2.0% | 1.7% |
| Physical Sciences | 1.8% | 3.2% |
| History | 1.6% | 2.1% |
| Public Affairs, Policy, and Social Work | 1.6% | 1.4% |
| Mathematics and Statistics | 1.5% | 1.4% |
| Physical Fitness, Parks, Recreation, and Leisure | 0.7% | 0.8% |
| Family and Consumer Sciences | 0.0% | 0.9% |
| Linguistics and Foreign Languages | 0.0% | 1.1% |
| Architecture | 0.0% | 0.8% |

LABOR SUPPLY

STEM Bachelor's Attainment Rate (2013)

9%

U.S. - 9%

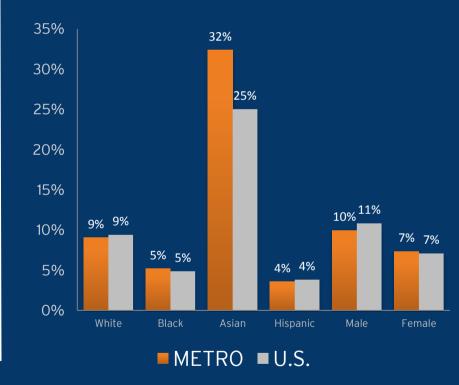
Metro Share of STEM Graduates, 2013

0.4%

U.S. - 0.6%

Share of STEM Graduates Per Metro Population 20-34

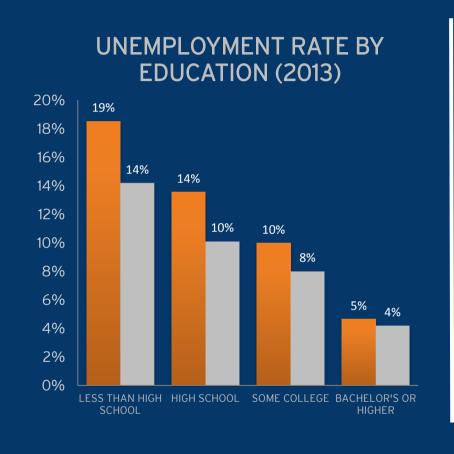
STEM BACHELOR'S ATTAINMENT BY GROUP (2013)

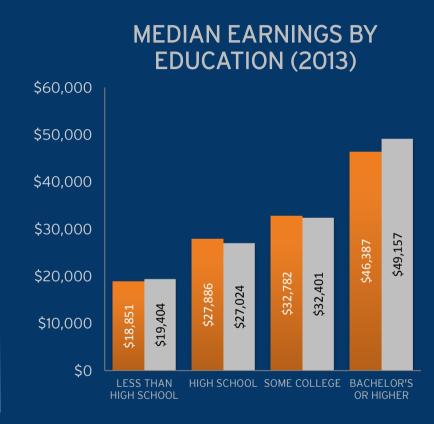


3 Labor Demand

 Education and skills required by employers as shown by employment and earnings

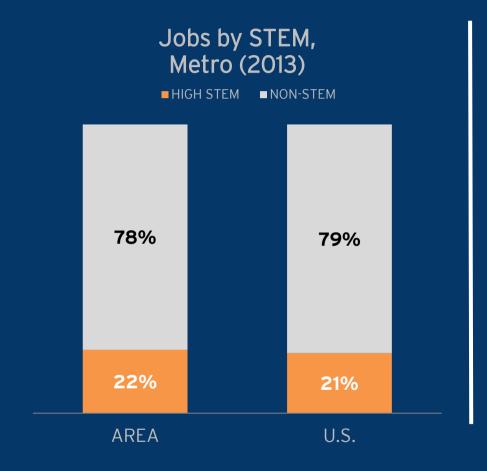
B | Metropolitan Policy Program at BROOKINGS



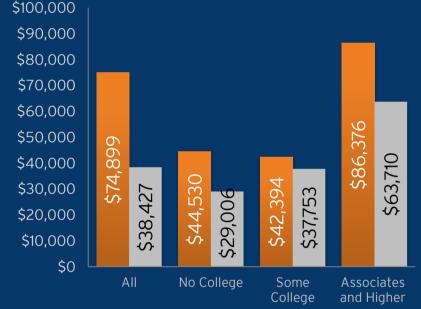


■ AREA ■ U.S.

■ AREA ■ U.S.







■ STEM Earnings ■ Non-STEM Earnings

| LARGEST METRO INDUSTRIES BY STEM SHARE (2013) | STEM SHARE OF EMPLOYMENT |
|--|-----------------------------|
| Petroleum and Coal Products Manufacturing | 100% |
| 0 | 61% |
| Beverage and Tobacco Product Manufacturing | 59% |
| Scenic and Sightseeing Transportation | 58% |
| Data Processing, Hosting and Related Services | 55% |
| Hospitals | 53% |
| Rail Transportation | 52% |
| Utilities | 52% |
| Repair and Maintenance | 45% |
| Nonmetallic Mineral Product Manufacturing | 41% |

| LARGEST METRO INDUSTRIES BY STEM EMPLOYEES (2013) | NUMBER OF STEM EMPLOYEES |
|--|-----------------------------|
| Hospitals | 26,883 |
| Professional, Scientific, and Technical Services | 26,681 |
| Ambulatory Health Care Services | 15,393 |
| Utilities | 6,764 |
| Repair and Maintenance | 6,746 |
| Administration of Economic Programs | 5,969 |
| Administrative and Support Services | 5,215 |
| Machinery Manufacturing | 4,727 |
| Educational Services | 4,638 |
| Transportation Equipment Manufacturing | 4,076 |

B | Metropolitan Policy Program

| FIELD OF DEGREE BY NUMBER OF ADULTS WITH BACHELORS (2013) | | ARNINGS (2013) |
|---|----------|----------------|
| TIELD OF DECKEE BY NOMBER OF ADOLTS WITH BAGHELORS (2013) | METRO | U.S. |
| Business | \$51,000 | \$63,526 |
| Education Administration and Teaching | \$33,000 | \$38,499 |
| Social Sciences | \$50,000 | \$64,699 |
| Engineering | \$85,000 | \$84,159 |
| Medical and Health Sciences and Services | \$45,000 | \$59,186 |
| Psychology | \$33,600 | \$46,428 |
| Communications | \$43,500 | \$49,178 |
| Biology and Life Sciences | \$47,000 | \$77,150 |
| Fine Arts | \$21,000 | \$37,506 |
| Computer and Information Sciences | \$73,000 | \$70,168 |
| English Language, Literature, and Composition | \$38,000 | \$47,972 |
| Criminal Justice and Fire Protection | \$36,500 | \$51,069 |
| Physical Sciences | \$62,000 | \$74,460 |
| History | \$36,300 | \$62,497 |
| Public Affairs, Policy, and Social Work | \$34,000 | \$40,199 |
| Mathematics and Statistics | \$27,000 | \$69,990 |
| Physical Fitness, Parks, Recreation, and Leisure | \$29,000 | \$44,393 |
| Family and Consumer Sciences | \$12,000 | \$33,309 |
| Linguistics and Foreign Languages | \$40,000 | \$43,694 |
| Architecture | \$35,000 | \$53,881 |

LABOR DEMAND

H-1B Visa Requests Metro (2011)

7,334

U.S. - 712,919

Metro H-1b Visa Requests Per Thousand Workers (2011)

24

Metro Percentile Rank: 7

| Most H-1b Workers, By Share of Metro Occupation (2011) | Share of H-1B Requests | |
|---|---------------------------|------|
| Metro Occupation (2011) | METRO | U.S. |
| Computer Occupations | 83% | 68% |
| Financial Specialists | 4% | 4% |
| Operations Specialties Managers | 4% | 2% |
| Business Operations Specialists | 2% | 4% |
| Mathematical Science Occupations | 2% | 1% |
| Engineers | 1% | 5% |
| Health Diagnosing and Treating Practitioners | 1% | 4% |
| Media and Communication Workers | 1% | 0% |
| Advertising, Marketing, Promotions, Public Relations, | 0% | 1% |
| Preschool, Primary, Secondary, and Special Education School | 0% | 2% |

Metropolitan Policy Program

| Metro 10 Occupational Categories with Largest Number of Openings | Number of Openings (2013) | Average Duration, Days (2013) |
|---|------------------------------|----------------------------------|
| Computer and Mathematical | 2117 | 27.4 |
| Healthcare Practitioners and Technical | 1816 | 48.7 |
| Sales and Related | 1309 | 35.0 |
| Management | 1306 | 37.0 |
| Business and Financial Operations | 1290 | 30.2 |
| Office and Administrative Support | 1204 | 22.7 |
| Architecture and Engineering | 374 | 36.2 |
| Healthcare Support | 282 | 38.4 |
| Transportation and Material Moving | 267 | 28.4 |
| Installation, Maintenance, and Repair | 247 | 38.6 |
| | | |

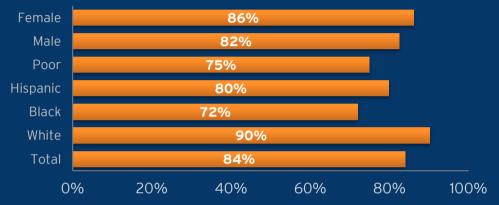
4 Institutional Quality

• Educational institutions responsible for developing the education skills of region's workforce

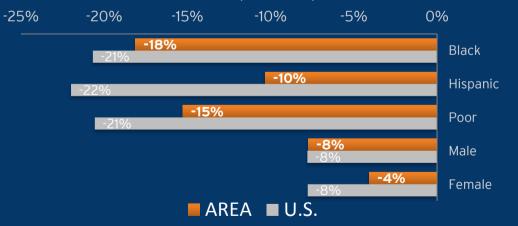
B | Metropolitan Policy Program at Brookings

Charlotte, NC

AREA PROFICIENCY RATES BY GROUP (2011-2012)



PROFICENCY RATE DIFFERENCES FROM WHITES, BY GROUP (2011-2012)

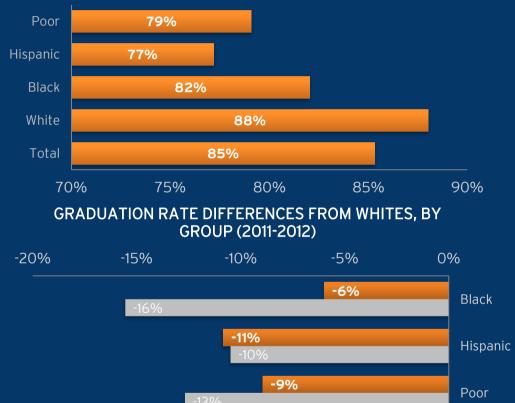


| Area Largest Schools | Average Overall Proficiency Rate (2011) |
|------------------------------|--|
| MYERS PARK HIGH | 86% |
| SOUTH MECKLENBURG HIGH | 88% |
| ARDREY KELL HIGH | 96% |
| DAVID W BUTLER HIGH | 91% |
| PROVIDENCE HIGH | 97% |
| MALLARD CREEK HIGH | 82% |
| INDEPENDENCE HIGH | 86% |
| WILLIAM A. HOUGH HIGH SCHOOL | 93% |
| MINT HILL HIGH SCHOOL | 81% |
| LAKE NORMAN HIGH | 91% |

B | Metropolitan Policy Program

Charlotte, NC

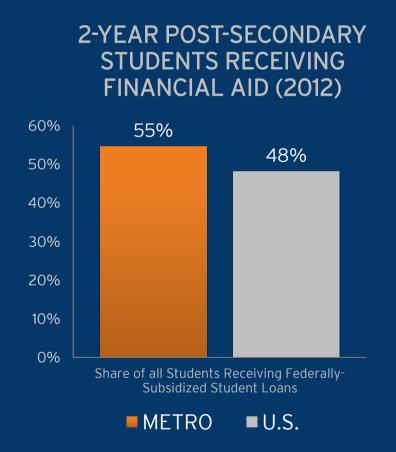




■ AREA ■ US

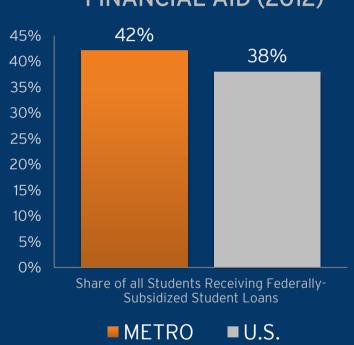
| Area Largest Schools | Average Graduation Rates (2011) |
|------------------------|------------------------------------|
| MYERS PARK HIGH | 89% |
| ARDREY KELL HIGH | 94% |
| LAKE NORMAN HIGH | 97% |
| SOUTH MECKLENBURG HIGH | 88% |
| WEST MECKLENBURG HIGH | 68% |
| MALLARD CREEK HIGH | 93% |
| DAVID W BUTLER HIGH | 90% |
| PROVIDENCE HIGH | 95% |
| HOPEWELL HIGH | 79% |
| INDEPENDENCE HIGH | 79% |

Charlotte, NC



| Metro Largest Institutions by Eligible Students | Share Receiving Federal Loans |
|--|----------------------------------|
| CENTRAL PIEDMONT COMMUNITY COLLEGE | 41% |
| ROWAN-CABARRUS COMMUNITY COLLEGE | 79% |
| GASTON COLLEGE | 47% |
| YORK TECHNICAL COLLEGE | 61% |
| NASCAR TECHNICAL INSTITUTE | 48% |
| MITCHELL COMMUNITY COLLEGE | 45% |
| KAPLAN COLLEGE-CHARLOTTE | 71% |
| KING'S COLLEGE | 79% |
| SOUTHEASTERN INSTITUTE-CHARLOTTE | 57% |
| CABARRUS COLLEGE OF HEALTH SCIENCES | 36% |





| Metro Largest Institutions by Eligible Students | Share Receiving Federal Loans |
|--|----------------------------------|
| UNIVERSITY OF NORTH CAROLINA AT CHARLOTTE | 40% |
| WINTHROP UNIVERSITY | 40% |
| JOHNSON & WALES UNIVERSITY- CHARLOTTE | 51% |
| QUEENS UNIVERSITY OF CHARLOTTE | 33% |
| DAVIDSON COLLEGE | 13% |
| WINGATE UNIVERSITY | 38% |
| CHARLOTTE SCHOOL OF LAW | 0% |
| BELMONT ABBEY COLLEGE | 46% |
| CATAWBA COLLEGE | 43% |
| JOHNSON C SMITH UNIVERSITY | 69% |

Completion Rates, Metro Area Community Colleges (2012)

34%

Percentage of Students Graduating Within 200% of Expected Time

U.S. - 40%

Metro Percentile Rank , Completion Rates, Community Colleges

71

| Metro Largest Institutions | Completion Rates (2012) |
|--|----------------------------|
| CENTRAL PIEDMONT COMMUNITY COLLEGE | 17% |
| ROWAN-CABARRUS COMMUNITY COLLEGE | 41% |
| GASTON COLLEGE | 27% |
| YORK TECHNICAL COLLEGE | 19% |
| NASCAR TECHNICAL INSTITUTE | 51% |
| MITCHELL COMMUNITY COLLEGE | 21% |
| KAPLAN COLLEGE-CHARLOTTE | N/A |
| KING'S COLLEGE | 79% |
| SOUTHEASTERN INSTITUTE-CHARLOTTE | 95% |
| CABARRUS COLLEGE OF HEALTH SCIENCES | 57% |

Completion Rates, Metro Area 4-Year Institutions (2013)

55%

Percentage of Students Graduating Within 200% of Expected Time

U.S. - 59%

Metro Percentile Rank, Completion Rates, 4-Year Institutions

48

| Metro Largest Institutions | Completion Rates (2013) |
|--|----------------------------|
| UNIVERSITY OF NORTH CAROLINA AT CHARLOTTE | 56% |
| WINTHROP UNIVERSITY | 59% |
| JOHNSON & WALES UNIVERSITY- CHARLOTTE | 49% |
| QUEENS UNIVERSITY OF CHARLOTTE | 61% |
| DAVIDSON COLLEGE | 92% |
| WINGATE UNIVERSITY | 53% |
| CHARLOTTE SCHOOL OF LAW | N/A |
| BELMONT ABBEY COLLEGE | 38% |
| CATAWBA COLLEGE | 54% |
| JOHNSON C SMITH UNIVERSITY | 40% |

Value of Degree Fields
Metro 2-Year
Institutions (2012)

\$51,461

U.S. - \$52,319 Value of Degree Fields, Entry-Level

Value of Alumni Skills, 2-Year Institutions (2012)

\$61,554

U.S. - \$61,606 Value of Alumni Skills

| Metro Largest Institutions | Value of Degree Fields, | Value of |
|--|----------------------------|---------------|
| | Entry-Level | Alumni Skills |
| CENTRAL PIEDMONT COMMUNITY COLLEGE | \$53,051 | \$63,246 |
| ROWAN-CABARRUS COMMUNITY COLLEGE | \$51,193 | \$58,918 |
| GASTON COLLEGE | \$51,324 | \$59,778 |
| YORK TECHNICAL COLLEGE | \$53,838 | \$58,243 |
| NASCAR TECHNICAL INSTITUTE | \$50,000 | \$68,227 |
| MITCHELL COMMUNITY COLLEGE | \$53,646 | \$60,277 |
| KAPLAN COLLEGE-CHARLOTTE | \$56,500 | N/A |
| KING'S COLLEGE | \$47,405 | N/A |
| SOUTHEASTERN INSTITUTE-CHARLOTTE | \$51,892 | N/A |
| CABARRUS COLLEGE OF HEALTH SCIENCES | \$56,351 | N/A |

Value of Degree Fields with Metro 4-Year Institutions (2012)

\$55,042

U.S. - \$56,655 Value of Degree Fields, Entry-Level

Value of Alumni Skills, 4-Year Institutions (2012)

\$65,180

U.S. - \$66,863 Value of Alumni Skills

| | Value of | Value of |
|--|-------------------------------|---------------------------|
| Metro Largest Institutions | Degree Fields, Entry-Level | Value of Alumni Skills |
| UNIVERSITY OF NORTH CAROLINA AT CHARLOTTE | \$57,849 | \$65,690 |
| WINTHROP UNIVERSITY | \$51,761 | \$62,744 |
| JOHNSON & WALES UNIVERSITY- CHARLOTTE | \$39,540 | N/A |
| QUEENS UNIVERSITY OF CHARLOTTE | \$55,548 | \$65,075 |
| DAVIDSON COLLEGE | \$56,220 | \$66,038 |
| WINGATE UNIVERSITY | \$61,048 | N/A |
| CHARLOTTE SCHOOL OF LAW | N/A | \$63,165 |
| BELMONT ABBEY COLLEGE | \$53,428 | \$66,885 |
| CATAWBA COLLEGE | \$50,157 | N/A |
| JOHNSON C SMITH UNIVERSITY | \$53,776 | N/A |

Metro Mid-Career Earnings of Graduates (2013), 2-Year Institutions

\$50,806

U.S. - \$54,100 Mid-Career Earnings, Payscale.com

Metro Default Rates (2013), 2-Year Instituions

8%

U.S. - 17% Percentage of Students Defaulting on Federal Loans

| Metro Largest Institutions | Default Rates, 2013 | Mid-Career Earnings of Graduates |
|--|------------------------|--|
| CENTRAL PIEDMONT COMMUNITY COLLEGE | 0% | \$53,051 |
| ROWAN-CABARRUS COMMUNITY COLLEGE | 0% | \$51,193 |
| GASTON COLLEGE | 10% | \$51,324 |
| YORK TECHNICAL COLLEGE | 18% | \$53,838 |
| NASCAR TECHNICAL INSTITUTE | 19% | \$50,000 |
| MITCHELL COMMUNITY COLLEGE | 0% | \$53,646 |
| KAPLAN COLLEGE-CHARLOTTE | 24% | \$56,500 |
| KING'S COLLEGE | 11% | \$47,405 |
| SOUTHEASTERN INSTITUTE-CHARLOTTE | 13% | \$51,892 |
| CABARRUS COLLEGE OF HEALTH SCIENCES | 1% | \$56,351 |

Metro Mid-Career Earnings of Graduates (2013) 4-Year Institutions

\$72,510

U.S. - \$79,800 Mid-Career Earnings, Payscale.com

Metro Default Rates (2013), 4-Year Institutions

8%

U.S. - 7% Percentage of Students Defaulting on Federal Loans

| Metro Largest Institutions | Default Rates, 2012 | Mid-Career Earnings of Graduates |
|--|------------------------|--|
| UNIVERSITY OF NORTH CAROLINA AT CHARLOTTE | 6% | \$57,849 |
| WINTHROP UNIVERSITY | 9% | \$51,761 |
| JOHNSON & WALES UNIVERSITY- CHARLOTTE | 11% | \$39,540 |
| QUEENS UNIVERSITY OF CHARLOTTE | 6% | \$55,548 |
| DAVIDSON COLLEGE | 2% | \$56,220 |
| WINGATE UNIVERSITY | 7% | \$61,048 |
| CHARLOTTE SCHOOL OF LAW | 0% | N/A |
| BELMONT ABBEY COLLEGE | 14% | \$53,428 |
| CATAWBA COLLEGE | 12% | \$50,157 |
| JOHNSON C SMITH UNIVERSITY | 27% | \$53,776 |

Salary Value Added, Metro Area Community Colleges (2013)

-3%

Salary, Percent Beyond Expected

Default Rate Value Added, Community Colleges (2013)

-9%

Default Rate, Percentage Point Over Expected

| Metro Largest Institutions | Salary Value Added (2013) | Default Value Added (2013) |
|--|------------------------------|-------------------------------|
| CENTRAL PIEDMONT COMMUNITY COLLEGE | -1% | -14% |
| ROWAN-CABARRUS COMMUNITY COLLEGE | N/A | -13% |
| GASTON COLLEGE | -13% | -1% |
| YORK TECHNICAL COLLEGE | 4% | 5% |
| NASCAR TECHNICAL INSTITUTE | N/A | N/A |
| MITCHELL COMMUNITY COLLEGE | N/A | -15% |
| KAPLAN COLLEGE-CHARLOTTE | N/A | N/A |
| KING'S COLLEGE | N/A | N/A |
| SOUTHEASTERN INSTITUTE- CHARLOTTE | N/A | N/A |
| CABARRUS COLLEGE OF HEALTH SCIENCES | N/A | N/A |

Salary Value Added, Metro Area 4-Year Institutions(2013)

8%

Earnings, Percent Beyond Expected

Default Rate Value Added, 4-Year Institutions (2013)

-1%

Default Rate, Percentage Point Over Expected

| | Salary Value | Default Value |
|--|--------------|---------------|
| Metro Largest Institutions | Added (2013) | Added (2013) |
| UNIVERSITY OF NORTH CAROLINA AT CHARLOTTE | 9% | -1% |
| WINTHROP UNIVERSITY | 3% | -1% |
| JOHNSON & WALES UNIVERSITY- CHARLOTTE | N/A | N/A |
| QUEENS UNIVERSITY OF CHARLOTTE | N/A | 0% |
| DAVIDSON COLLEGE | 15% | -3% |
| WINGATE UNIVERSITY | N/A | N/A |
| CHARLOTTE SCHOOL OF LAW | N/A | N/A |
| BELMONT ABBEY COLLEGE | -2% | 4% |
| CATAWBA COLLEGE | N/A | N/A |
| JOHNSON C SMITH UNIVERSITY | N/A | N/A |

| | Concept | Concept | Source and calculations |
|---|--|--|---|
| Basic Demographic and Economic Information Slide Number | | | |
| 1 | Populaton | Population total and growth from 2000-2013, and population age 18 and under | 2013 American Community Survey (ACS) and 2000 Decennial Census, U.S. Census Bureau |
| 2 | Population by race and nativity | Population by race and nativity | 2013 ACS, U.S. Census Bureau |
| 3 | Median household income overall and by race; Regional Cost of Living Index | Regional cost of living is an index based on 100. A value of 105, indicates that living costs are 5% higher than the national average. A value of 95 indicates that living costs are 5% lower than the national average. | 2013 ACS; Bureau of Economic Analysis, 2012 |
| 4 | Unemployment rate overall and by race | Unemployment rate by racial group. | 2013 ACS, U.S. Census Bureau |
| 5 5 | Poverty Rate overall and by race Poverty Rate | Unemployment rate by racial group. Household poverty rate | 2013 ACS, U.S. Census Bureau 2013 ACS, U.S. Census Bureau |
| 6 | Employment and job growth by industry | The 10 largest sectors by share of total employment, using 2-digit North American Industrial Classification System (NAICS) codes, comparing regional values to US values. Annual employment growth is also shown by sector from 2010, the nadir of the Great Recession, to 2013. | Moody's Analytics, using data from the Quarterly Census of Employment and Wages. |
| 7 | Occupation | 10 largst occupational categories at two-digit (or major) Standard Occupational Classification level. | Bureau of Labor Statistics, Occupational Employment Statistics |
| Labor Supply | | | |
| 1 | Area level: Educational attainment rates by level of attainment overall and by race | The universe is the population aged 25 and older. | 2013 ACS, U.S. Census Bureau |
| 2 | Metro level: Educational attainment rates by level of attainment overall and by race | The universe is the population aged 25 and older. | 2013 ACS, U.S. Census Bureau |
| 3 | Educational attainment, nativity of college educated residents, and change in attainment rate since 2009 | The universe is the population aged 25 and older. | 2009 and 2013 ACS, U.S. Census Bureau |
| 4 | Share of bachelor's educated adults by field of degree | Bachelor's degree earners by field of study | 2013 ACS, U.S. Census Bureau |
| 5 | STEM bachelor's attainment rate, Share of STEM graduates per capita, STEM bachelor's attainment by race | The STEM attainment rate is for the population 25-64. STEM fields are determined by fields of study codes and include sciences, computer science, engineering, agricultural science, health science, and technology fields. Social sciences are not included. | 2013 ACS via Integrated Publicuse Microdata Series (IPUMS), U.S. Census Bureau. |
| Labor Demand | | | |
| 1 | Unemployment rate and median earnings by education, 2013 | The number of people unemployed and looking for work divided by the number of people in the labor force (employed plus unemployed). | 2013 ACS, U.S. Census Bureau. |
| 2 | Jobs and job growth by education required | Jobs classified by educational requirments using mode education level of workers in occcupation. | 2000 decennial census and 2013 ACS via Integrated Publicuse Microdata Series (IPUMS), U.S. Census Bureau. |
| 3 | Metro STEM jobs and average earnings for STEM workers | Occupations classified as STEM based on knowledge requirements of workers. See Jonathan Rothwell, "Hidden STEM Economy" (Washington: Brookings Institution, 2013) for methodological details on which jobs are considered STEM. | O*NET, BLS Occupational Employment Statistics |

| 4 | Industries with largest number of STEM workers and highest percentage | Occupations classified as STEM based on knowledge requirements of workers. See Jonathan Rothwell, "Hidden STEM Economy" (Washington: Brookings Institution, 2013) for methodological details on which jobs are considered STEM. | 2013 American Community Survey, O*NET, BLS Occupational Employment Statistics |
|--|--|---|---|
| 5 | Earnings by field of degree for most common bachelor's degree fields of study | Median earnings for employed individuals aged 25 and older | 2013 ACS via Integrated Publicuse Microdata Series (IPUMS), U.S. Census Bureau. |
| 6 | H-1B visa petitions per worker and by occupation, 2011 | H-1B visas are reserved for "skilled" foreign-born workers who are sponsored by U.S. employed for temporary employment in the United States. "Skilled" is defined as workers in occupations that require a bachelor's degree or higher education (as determined by the company). The number of visas actually granted is capped, but employers can issue an unlimited number of requests for approval using preliminary "Labor Condition Applications," which are filed through the Department of Labor as a first step in obtaining a visa. Applications are approved if employers pledge to pay market wages. The number of these requests is shown as a share of total employment to show the intensity of demand for foreign-workers. The most commonly requested occupations are also shown (aggregated to minor occupational groups). | 2013 Deparmtent of Labor, Office of Foreign Labor Certification (OFLC). See Neil Ruiz, Jill Wilson and Shyamali Choudhury, "The Search for Skills: Demand for H-1B Immigrant Workers in U.S. Metropolitan Areas," (Washington: Brookings Institution, 2012). Those authors coded the raw data to match metropolitan areas, and their coding was used here. |
| 7 | Job openings and duration of advertisements by occupation | These are all job openings advertised on company websites in the first quarter of 2013. Average duration of advertisement indicates difficulty in hiring, except for high-turnover low-paying jobs, where is often indicates that companies are "always-hiring." | Brookings analysis of data from Burning Glass |
| Quality of Educational Institutions | | | |
| 1 | Area Proficiency Rates on State Exams for Public School Students, by group and 10 largest schools, 2011-2012 | States are required to report achievement data on state assessments to ED under Title I, Part A of the Elementary and Secondary Education Act (ESEA). Student performance on state assessments is measured by assessing students against state content standards | U.S. Department of Education, EdFacts, downloaded from Data.gov. Aggregated proficiency rates use the school level share of students taking exams as the weight. For schools with data supressions, mid-point graduation rates were imputed from the range provided (except if range was < or >50%, for which data was treated as missing). NCES data was used for school addresses. |
| 2 | High School Graduation Rate, 2011-2012 overall, by 10 largest schools, and by group | As definied by the Department of Education, "The number of students who graduate in four years with a regular high school diploma divided by the number of students who form the adjusted cohort for the graduating class. From the beginning of 9 th grade (or the earliest high school grade), students who are entering that grade for the first time form a cohort that is "adjusted" by adding any students who subsequently transfer into the cohort and subtracting any students who subsequently transfer out, emigrate to another country, or die." | U.S. Department of Education, EdFacts, downloaded from Data.gov. Aggregated graduation rates are a student-cohort weighted average of school graduation rates. For schools with data supressions, mid-point graduation rates were imputed from the range provided (except if range was < or >50%, for which data was treated as missing). NCES data was used for school addresses and were matched to MSAs using a file from Moody's Analytics linking countries and zip-codes to MSAs. |
| 3 | Financial aid, 4-year colleges, 2012-2013 | percentage of 4-year students receiving financial aid | IPEDS |
| 4 | | | |
| | Financial aid, 2-year colleges, 2012-2013 | percentage of 2-year students receiving financial aid | IPEDS |

| 6 | Completion rates within twice normal time, 4-year colleges, 2012-2013 | graduation rate within 200% normal time | IPEDS |
|----|---|---|--|
| 7 | Value of degree fields and value of alumni skills, 4-year 2012-2013 | Labor market value of mix of majors, and labor market value of skilled posted on LinkedIn resumes by college | IPEDS, 2013 ACS, and LinkedIn |
| 8 | Value of degree fields and value of alumni skills, 2-year 2012-2013 | Labor market value of mix of majors, and labor market value of skilled posted on LinkedIn resumes by college | IPEDS, 2013 ACS, and LinkedIn |
| 9 | Mid-career earnings and default rates, 4-year, 2014 and 2011-2014, 4-year | Median mid-career earnings (after 10 years or more years of work); default rates on federal students loans within three years of loan repayment periods | Payscale; US Department of Education |
| 10 | Mid-career earnings and default rates, 4-year, 2014 and 2011-2014, 2-year | Median mid-career earnings (after 10 years or more years of work); default rates on federal students loans within three years of loan repayment periods | Payscale; US Department of Education |
| 11 | Value added of college with respect to salary and default rate, 2-year | Difference between actual and predicted salary and default rates for each college, given student and institutional characteristics | IPEDS, Payscale, US Department of Education, 2013 ACS, LinkedIn, BEA |
| 12 | Value added of college with respect to salary and default rate, 4-year | Difference between actual and predicted salary and default rates for each college, given student and institutional characteristics | IPEDS, Payscale, US Department of Education, 2013 ACS, LinkedIn, BEA |