

# Where We Stand 7th Edition – Update 5

## Innovation and Entrepreneurship

September 27, 2017

WWS 7<sup>th</sup> Edition, Data, & Updates

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# Productivity

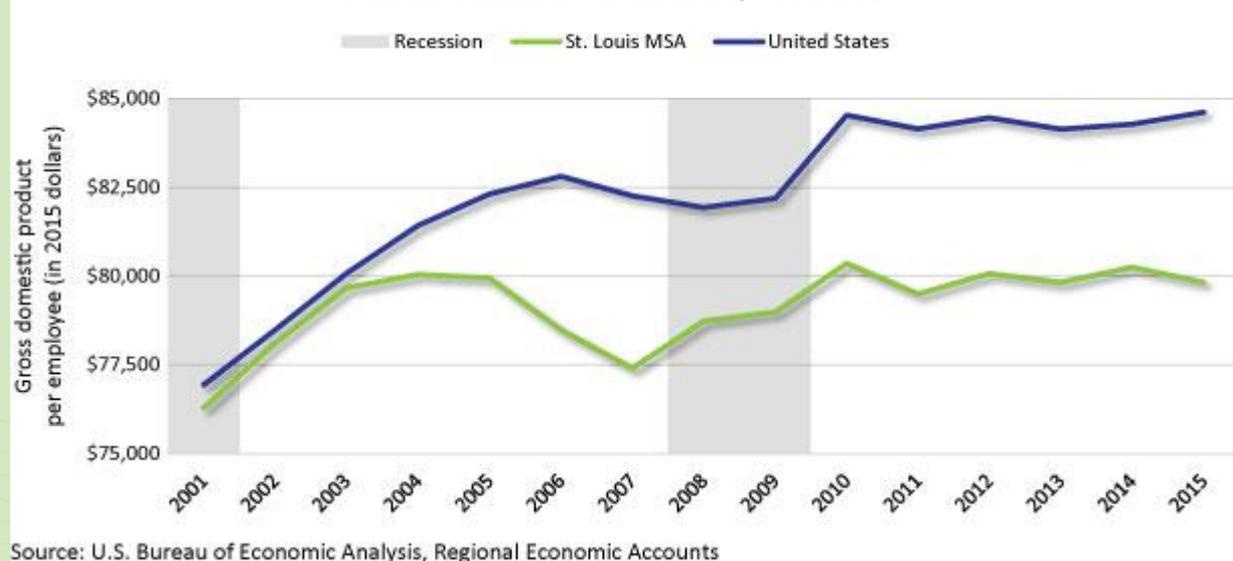
Real gross metropolitan production per employee in dollars, 2015

|    |                      |               |
|----|----------------------|---------------|
| 1  | San Jose             | 164,734       |
| 2  | Washington, D.C.     | 147,512       |
| 3  | San Francisco        | 119,584       |
| 4  | Houston              | 116,927       |
| 5  | Seattle              | 115,838       |
| 6  | New York             | 112,656       |
| 7  | Boston               | 103,950       |
| 8  | Philadelphia         | 101,053       |
| 9  | Portland             | 100,637       |
| 10 | Los Angeles          | 100,276       |
| 11 | San Diego            | 98,048        |
| 12 | Dallas               | 96,591        |
| 13 | Chicago              | 95,712        |
| 14 | Hartford             | 94,810        |
| 15 | Denver               | 93,604        |
| 16 | Indianapolis         | 93,117        |
| 17 | Minneapolis          | 91,943        |
| 18 | Charlotte            | 91,134        |
| 19 | Virginia Beach       | 91,114        |
| 20 | Baltimore            | 90,719        |
| 21 | Pittsburgh           | 89,192        |
| 22 | Richmond             | 88,613        |
| 23 | Milwaukee            | 88,369        |
| 24 | Detroit              | 88,248        |
| 25 | Cleveland            | 87,721        |
| 26 | New Orleans          | 86,426        |
| 27 | Birmingham           | 86,341        |
| 28 | Raleigh              | 86,320        |
| 29 | Cincinnati           | 86,173        |
| 30 | Atlanta              | 86,093        |
|    | <b>United States</b> | <b>84,621</b> |
| 31 | Columbus             | 84,447        |
| 32 | Kansas City          | 83,983        |
| 33 | Austin               | 83,954        |
| 34 | Nashville            | 83,572        |
| 35 | Sacramento           | 83,084        |
| 36 | Oklahoma City        | 81,405        |
| 37 | Salt Lake City       | 81,068        |
| 38 | <b>St. Louis</b>     | <b>79,827</b> |
| 39 | Louisville           | 78,566        |
| 40 | Phoenix              | 78,479        |
| 41 | Providence           | 77,361        |
| 42 | Miami                | 76,690        |
| 43 | Las Vegas            | 75,983        |
| 44 | Memphis              | 75,656        |
| 45 | Buffalo              | 75,173        |
| 46 | San Antonio          | 74,454        |
| 47 | Orlando              | 73,161        |
| 48 | Tampa                | 72,493        |
| 49 | Jacksonville         | 71,973        |
| 50 | <b>Riverside</b>     | <b>64,536</b> |

Source: U.S. Bureau of Economic Analysis, Regional Economic Accounts

# Productivity Growth

Figure 1: Productivity - GDP per Employee  
St. Louis MSA and the United States, 2001-2015



Source: U.S. Bureau of Economic Analysis, Regional Economic Accounts

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## Manufacturing Productivity

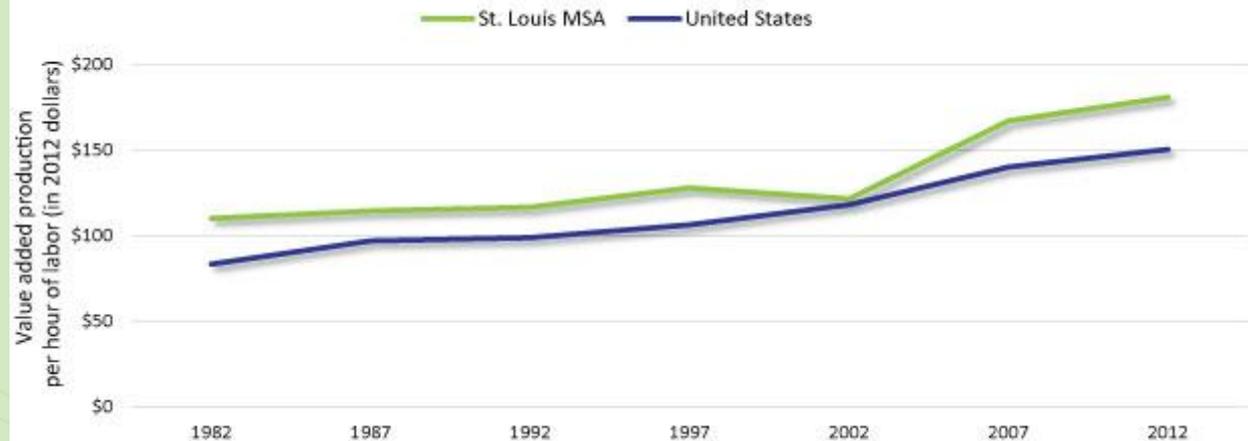
Value added production per hour of labor in dollars, 2012

|    |                      |              |
|----|----------------------|--------------|
| 1  | <b>Raleigh</b>       | <b>450.4</b> |
| 2  | Richmond             | 448.1        |
| 3  | New Orleans          | 311.3        |
| 4  | San Francisco        | 286.5        |
| 5  | San Jose             | 272.3        |
| 6  | Houston              | 268.6        |
| 7  | Indianapolis         | 247.1        |
| 8  | Seattle              | 225.6        |
| 9  | Austin               | 200.0        |
| 10 | Memphis              | 196.2        |
| 11 | Baltimore            | 192.2        |
| 12 | Boston               | 187.5        |
| 13 | Salt Lake City       | 184.1        |
| 14 | Dallas               | 181.0        |
| 15 | <b>St. Louis</b>     | <b>180.8</b> |
| 16 | Kansas City          | 177.7        |
| 17 | San Diego            | 177.3        |
| 18 | Phoenix              | 174.3        |
| 19 | Jacksonville         | 171.1        |
| 20 | Washington, D.C.     | 166.4        |
| 21 | Minneapolis          | 165.5        |
| 22 | Denver               | 160.5        |
| 23 | Cincinnati           | 156.1        |
| 24 | Philadelphia         | 152.0        |
| 25 | Buffalo              | 150.6        |
|    | <b>United States</b> | <b>150.3</b> |
| 26 | New York             | 150.3        |
| 27 | Pittsburgh           | 150.3        |
| 28 | Tampa                | 150.2        |
| 29 | Columbus             | 149.2        |
| 30 | Orlando              | 145.5        |
| 31 | Riverside            | 143.5        |
| 32 | Milwaukee            | 142.5        |
| 33 | Chicago              | 142.2        |
| 34 | Hartford             | 140.5        |
| 35 | Los Angeles          | 138.3        |
| 36 | Portland             | 135.9        |
| 37 | Birmingham           | 135.3        |
| 38 | Atlanta              | 134.7        |
| 39 | Sacramento           | 131.0        |
| 40 | Virginia Beach       | 130.4        |
| 41 | Providence           | 126.8        |
| 42 | Louisville           | 126.8        |
| 43 | San Antonio          | 125.3        |
| 44 | Nashville            | 124.6        |
| 45 | Charlotte            | 122.7        |
| 46 | Las Vegas            | 119.4        |
| 47 | Oklahoma City        | 118.4        |
| 48 | Miami                | 116.6        |
| 49 | Cleveland            | 114.5        |
| 50 | <b>Detroit</b>       | <b>108.9</b> |

Source: U.S. Census Bureau, Economic Census

# Manufacturing Productivity

**Figure 2: Manufacturing Productivity**  
St. Louis MSA and the United States, 1982 to 2012



Source: U.S. Census Bureau, Economic Census

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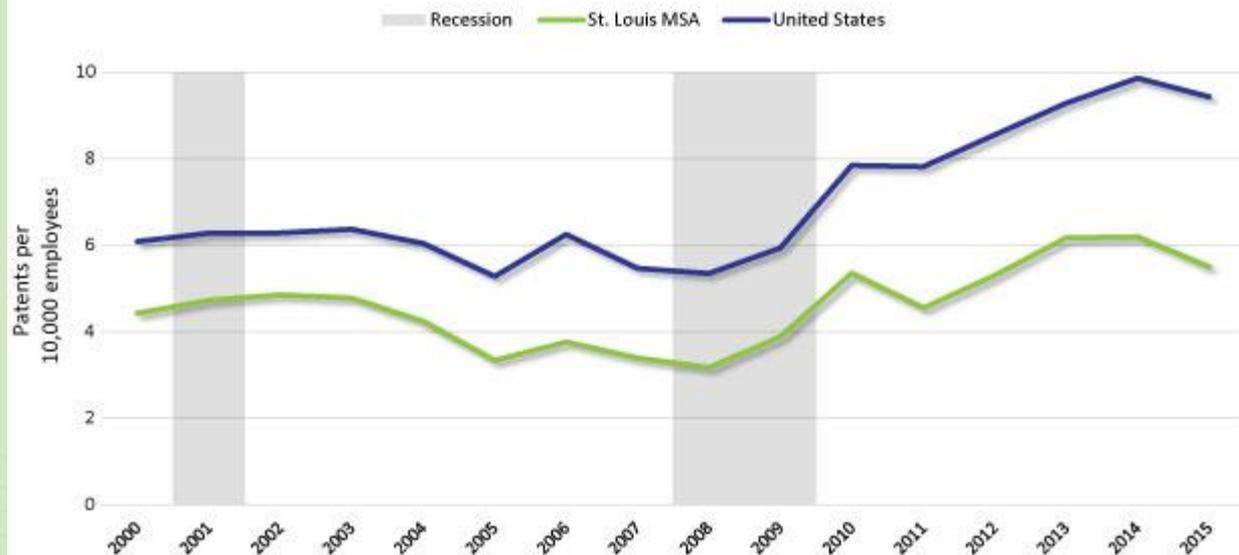
# Patents

# Patents

Utility patents granted per 10,000 employees, 2015

|                      |                  |            |
|----------------------|------------------|------------|
| 1                    | San Jose         | 132.5      |
| 2                    | San Francisco    | 40.4       |
| 3                    | San Diego        | 34.8       |
| 4                    | Austin           | 27.3       |
| 5                    | Raleigh          | 24.8       |
| 6                    | Seattle          | 23.7       |
| 7                    | Boston           | 21.8       |
| 8                    | Portland         | 18.5       |
| 9                    | Minneapolis      | 17.3       |
| 10                   | Detroit          | 16.7       |
| 11                   | Hartford         | 12.8       |
| 12                   | Los Angeles      | 10.4       |
| 13                   | Houston          | 10.3       |
| 14                   | Cincinnati       | 9.6        |
| <b>United States</b> | <b>9.4</b>       |            |
| 15                   | New York         | 9.1        |
| 16                   | Phoenix          | 8.9        |
| 17                   | Dallas           | 8.7        |
| 18                   | Cleveland        | 8.7        |
| 19                   | Salt Lake City   | 8.5        |
| 20                   | Chicago          | 8.2        |
| 21                   | Denver           | 8.2        |
| 22                   | Atlanta          | 8.1        |
| 23                   | Philadelphia     | 8.1        |
| 24                   | Milwaukee        | 7.9        |
| 25                   | Pittsburgh       | 7.5        |
| 26                   | Kansas City      | 7.5        |
| 27                   | Indianapolis     | 7.3        |
| 28                   | Washington, D.C. | 7.2        |
| 29                   | Providence       | 6.8        |
| 30                   | Sacramento       | 6.6        |
| 31                   | Baltimore        | 5.9        |
| <b>32</b>            | <b>St. Louis</b> | <b>5.5</b> |
| 33                   | Miami            | 5.1        |
| 34                   | Memphis          | 5.0        |
| 35                   | Tampa            | 4.8        |
| 36                   | Buffalo          | 4.5        |
| 37                   | Louisville       | 4.5        |
| 38                   | Charlotte        | 4.4        |
| 39                   | Las Vegas        | 4.4        |
| 40                   | Columbus         | 4.2        |
| 41                   | Richmond         | 3.9        |
| 42                   | San Antonio      | 3.9        |
| 43                   | Orlando          | 3.8        |
| 44                   | Riverside        | 3.3        |
| 45                   | Jacksonville     | 3.0        |
| 46                   | Nashville        | 2.4        |
| 47                   | Oklahoma City    | 2.4        |
| 48                   | New Orleans      | 2.2        |
| 49                   | Birmingham       | 2.1        |
| 50                   | Virginia Beach   | 1.2        |

**Figure 3: Utility Patents per 10,000 employees**  
St. Louis MSA and the United States



Source: U.S. Patent and Trademark Office, Patent Statistics and Research Reports; U.S. Bureau of Economic Analysis, Regional Economic Accounts

Source: U.S. Patent and Trademark Office; U.S. Bureau of Economic Analysis

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## Venture Capital

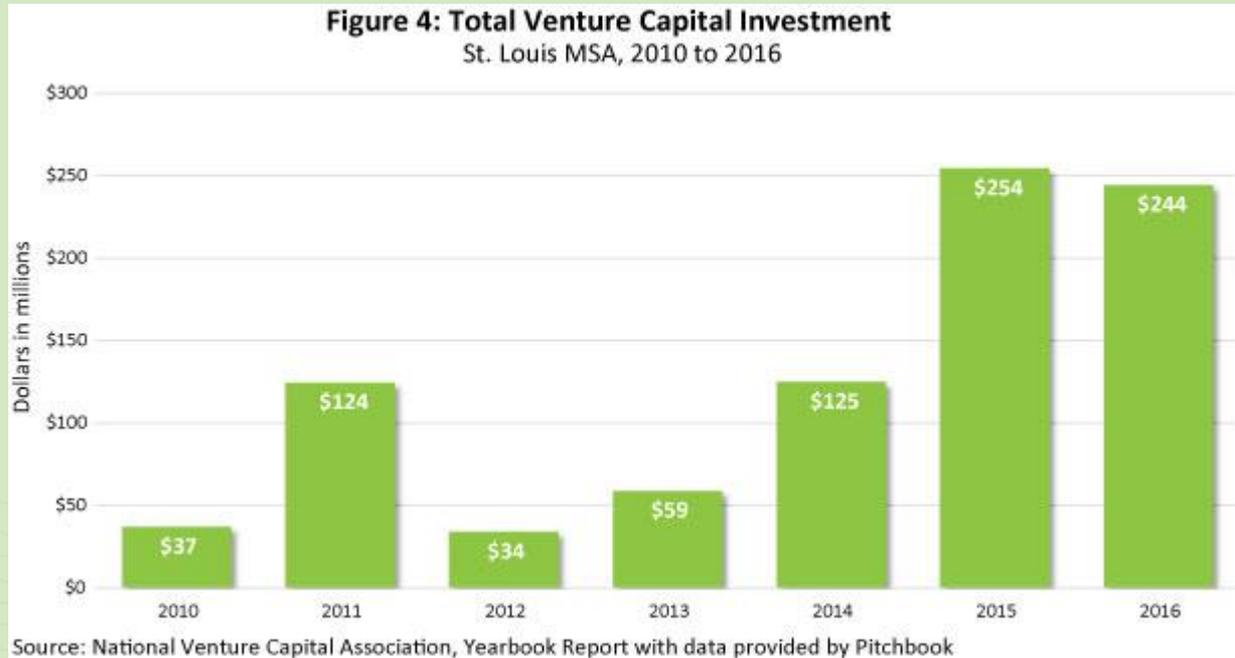
Venture capital investment per employee in dollars, 2016

|                      |                  |            |
|----------------------|------------------|------------|
| 1                    | San Francisco    | 9,985      |
| 2                    | San Jose         | 6,270      |
| 3                    | Boston           | 2,231      |
| 4                    | San Diego        | 1,089      |
| 5                    | Austin           | 977        |
| 6                    | Los Angeles      | 912        |
| 7                    | Salt Lake City   | 902        |
| 8                    | New York         | 794        |
| 9                    | Seattle          | 770        |
| 10                   | Miami            | 501        |
| <b>United States</b> |                  | <b>491</b> |
| 11                   | Raleigh          | 364        |
| 12                   | Denver           | 350        |
| 13                   | Washington, D.C. | 337        |
| 14                   | Nashville        | 335        |
| 15                   | Philadelphia     | 313        |
| 16                   | Atlanta          | 283        |
| 17                   | Chicago          | 268        |
| 18                   | Portland         | 260        |
| 19                   | Minneapolis      | 251        |
| 20                   | Pittsburgh       | 197        |
| 21                   | Dallas           | 193        |
| 22                   | Baltimore        | 183        |
| 23                   | <b>St. Louis</b> | <b>179</b> |
| 24                   | Phoenix          | 136        |
| 25                   | Hartford         | 130        |
| 26                   | Las Vegas        | 129        |
| 27                   | Cincinnati       | 127        |
| 28                   | Indianapolis     | 126        |
| 29                   | Sacramento       | 117        |
| 30                   | Charlotte        | 113        |
| 31                   | Richmond         | 105        |
| 32                   | Louisville       | 103        |
| 33                   | Buffalo          | 96         |
| 34                   | Cleveland        | 92         |
| 35                   | Tampa            | 85         |
| 36                   | Birmingham       | 83         |
| 37                   | Houston          | 82         |
| 38                   | San Antonio      | 77         |
| 39                   | Providence       | 70         |
| 40                   | Detroit          | 65         |
| 41                   | Kansas City      | 59         |
| 42                   | Columbus         | 58         |
| 43                   | Orlando          | 57         |
| 44                   | Milwaukee        | 52         |
| 45                   | Memphis          | 35         |
| 46                   | New Orleans      | 34         |
| 47                   | Jacksonville     | 32         |
| 48                   | Oklahoma City    | 11         |
| 49                   | Riverside        | 7          |
| 50                   | Virginia Beach   | 1          |

Source: National Venture Capital Association Yearbook Report with data provided by Pitchbook; U.S. Bureau of Labor Statistics, Current Employment Statistics

# Venture Capital

Figure 4: Total Venture Capital Investment  
St. Louis MSA, 2010 to 2016



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# Entrepreneurship

## Self-Employment

Percent of employed population that is self-employed, 2015

|                     |                       |            |
|---------------------|-----------------------|------------|
| 1                   | Miami                 | 14.1       |
| 2                   | Los Angeles           | 13.1       |
| 3                   | San Francisco         | 11.6       |
| 4                   | Portland              | 11.1       |
| 5                   | San Diego             | 10.9       |
| 6                   | Austin                | 10.8       |
| 7                   | Tampa                 | 10.7       |
| 8                   | New Orleans           | 10.4       |
| 9                   | Denver                | 10.2       |
| 10                  | Sacramento            | 10.0       |
| 11                  | New York              | 10.0       |
| 12                  | Riverside             | 9.8        |
| 13                  | Atlanta               | 9.6        |
| 14                  | Oklahoma City         | 9.6        |
| 15                  | Phoenix               | 9.4        |
| <b>Peer Average</b> |                       | <b>9.3</b> |
| 16                  | Seattle               | 9.2        |
| 17                  | Orlando               | 9.1        |
| 18                  | Raleigh               | 9.0        |
| 19                  | Nashville             | 9.0        |
| 20                  | Houston               | 8.7        |
| 21                  | Minneapolis           | 8.7        |
| 22                  | Dallas                | 8.6        |
| 23                  | Salt Lake City        | 8.4        |
| 24                  | Jacksonville          | 8.4        |
| 25                  | Boston                | 8.3        |
| 26                  | Charlotte             | 8.3        |
| 27                  | San Jose              | 8.2        |
| 28                  | Kansas City           | 8.2        |
| 29                  | Washington, D.C.      | 8.1        |
| 30                  | Hartford              | 8.0        |
| 31                  | <b>St. Louis</b>      | <b>7.8</b> |
| 32                  | Chicago               | 7.8        |
| 33                  | San Antonio           | 7.8        |
| 34                  | Detroit               | 7.8        |
| 35                  | Richmond              | 7.7        |
| 36                  | Louisville            | 7.7        |
| 37                  | Philadelphia          | 7.7        |
| 38                  | Pittsburgh            | 7.7        |
| 39                  | Providence            | 7.6        |
| 40                  | Columbus              | 7.6        |
| 41                  | Birmingham            | 7.6        |
| 42                  | Baltimore             | 7.6        |
| 43                  | Las Vegas             | 7.4        |
| 44                  | Cleveland             | 7.4        |
| 45                  | Milwaukee             | 7.3        |
| 46                  | Cincinnati            | 7.1        |
| 47                  | Memphis               | 7.0        |
| 48                  | Indianapolis          | 7.0        |
| 49                  | Buffalo               | 6.9        |
| 50                  | <b>Virginia Beach</b> | <b>5.8</b> |

Source: U.S. Census Bureau, American Community Survey 1-Year Estimates

## Small Business Firms

Firms with 1-49 employees as a percent of all firms, 2014

|                      |                  |             |
|----------------------|------------------|-------------|
| <b>United States</b> |                  | <b>95.6</b> |
| 1                    | New York         | 95.1        |
| 2                    | Miami            | 94.9        |
| 3                    | Los Angeles      | 93.6        |
| 4                    | Chicago          | 92.0        |
| 5                    | Tampa            | 91.7        |
| 6                    | Philadelphia     | 91.3        |
| 7                    | Seattle          | 91.3        |
| 8                    | San Francisco    | 91.1        |
| 9                    | Detroit          | 91.0        |
| 10                   | Boston           | 91.0        |
| 11                   | San Diego        | 90.9        |
| 12                   | Atlanta          | 90.7        |
| 13                   | Providence       | 90.7        |
| 14                   | Washington, D.C. | 90.4        |
| 15                   | Portland         | 90.4        |
| 16                   | Riverside        | 90.4        |
| 17                   | Orlando          | 90.3        |
| 18                   | Houston          | 90.0        |
| 19                   | Dallas           | 89.8        |
| 20                   | <b>St. Louis</b> | <b>89.8</b> |
| 21                   | Denver           | 89.7        |
| 22                   | Minneapolis      | 89.6        |
| 23                   | Baltimore        | 89.5        |
| 24                   | Pittsburgh       | 89.2        |
| 25                   | San Jose         | 89.1        |
| 26                   | Sacramento       | 89.1        |
| 27                   | Phoenix          | 89.1        |
| 28                   | Oklahoma City    | 88.6        |
| 29                   | Cleveland        | 88.6        |
| 30                   | Buffalo          | 88.5        |
| 31                   | Virginia Beach   | 88.4        |
| 32                   | Jacksonville     | 88.0        |
| 33                   | Kansas City      | 88.0        |
| 34                   | Austin           | 87.8        |
| 35                   | Salt Lake City   | 87.4        |
| 36                   | New Orleans      | 87.4        |
| 37                   | Richmond         | 87.4        |
| 38                   | Las Vegas        | 87.2        |
| 39                   | Hartford         | 87.1        |
| 40                   | San Antonio      | 86.7        |
| 41                   | Charlotte        | 86.7        |
| 42                   | Cincinnati       | 86.6        |
| 43                   | Raleigh          | 86.5        |
| 44                   | Milwaukee        | 86.5        |
| 45                   | Nashville        | 86.0        |
| 46                   | Indianapolis     | 85.9        |
| 47                   | Louisville       | 85.9        |
| 48                   | Columbus         | 85.9        |
| 49                   | Birmingham       | 85.6        |
| 50                   | <b>Memphis</b>   | <b>83.0</b> |

Source: U.S. Census Bureau, Business Dynamics Statistics

Table 1: Small Business Firms by Industry

St. Louis MSA, 2015

| Sector   | Percent of Small Business Firms |
|--|---------------------------------|
| Health care and social assistance  | 19.4                            |
| Professional, scientific, and technical services                         | 13.0                            |
| Construction   | 11.0                            |
| Retail trade   | 9.6                             |
| Accommodation and food services  | 7.0                             |
| Administrative and support and waste management and remediation services | 6.9                             |
| Wholesale trade  | 5.6                             |
| Finance and insurance  | 5.5                             |
| Real estate and rental and leasing                                       | 4.2                             |
| Manufacturing  | 4.0                             |
| Other Industries   | 13.8                            |

Source: U.S. Census Bureau, Annual Survey of Entrepreneurs, 2015

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### Small Business Startups

New firms with 1-49 employees per 100,000 residents, 2014

|                      |                  |              |
|----------------------|------------------|--------------|
| 1                    | Miami            | 232.9        |
| 2                    | New York         | 185.6        |
| 3                    | Orlando          | 184.4        |
| 4                    | Denver           | 180.5        |
| 5                    | Austin           | 176.3        |
| 6                    | Los Angeles      | 173.4        |
| 7                    | <b>St. Louis</b> | <b>171.2</b> |
| 8                    | San Francisco    | 169.7        |
| 9                    | San Diego        | 167.4        |
| 10                   | Portland         | 165.0        |
| 11                   | Seattle          | 163.8        |
| 12                   | Salt Lake City   | 163.4        |
| 13                   | Las Vegas        | 163.3        |
| 14                   | San Jose         | 158.7        |
| 15                   | Tampa            | 156.6        |
| 16                   | Raleigh          | 151.8        |
| 17                   | Jacksonville     | 151.7        |
| 18                   | Oklahoma City    | 147.6        |
| 19                   | Charlotte        | 145.2        |
| 20                   | Atlanta          | 145.0        |
| 21                   | Kansas City      | 143.4        |
| 22                   | Dallas           | 137.4        |
| 23                   | Minneapolis      | 131.5        |
| 24                   | Washington, D.C. | 131.3        |
| 25                   | Chicago          | 130.6        |
| 26                   | Houston          | 129.9        |
| 27                   | Boston           | 129.5        |
| 28                   | Nashville        | 128.6        |
| <b>United States</b> |                  | <b>126.1</b> |
| 29                   | Phoenix          | 121.0        |
| 30                   | New Orleans      | 119.7        |
| 31                   | Philadelphia     | 117.8        |
| 32                   | Sacramento       | 117.2        |
| 33                   | Richmond         | 116.6        |
| 34                   | Baltimore        | 116.1        |
| 35                   | Detroit          | 113.9        |
| 36                   | Indianapolis     | 113.3        |
| 37                   | Providence       | 111.1        |
| 38                   | San Antonio      | 108.8        |
| 39                   | Buffalo          | 108.5        |
| 40                   | Louisville       | 104.2        |
| 41                   | Milwaukee        | 103.3        |
| 42                   | Birmingham       | 100.1        |
| 43                   | Pittsburgh       | 99.5         |
| 44                   | Virginia Beach   | 99.4         |
| 45                   | Riverside        | 98.8         |
| 46                   | Cleveland        | 93.8         |
| 47                   | Columbus         | 91.9         |
| 48                   | Hartford         | 90.5         |
| 49                   | Cincinnati       | 87.9         |
| 50                   | <b>Memphis</b>   | <b>79.0</b>  |

Source: U.S. Census Bureau, Business Dynamics Statistics; Population Estimates

### Tech Startups

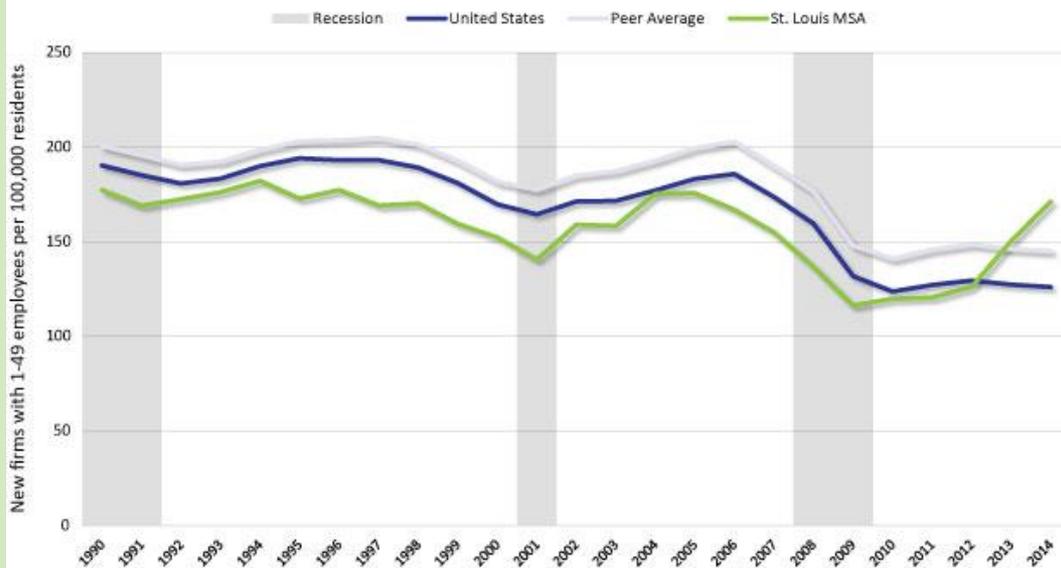
Firms in manufacturing, professional, scientific, and technical services industries with less than 2 years in business per 100,000 residents, 2015

|                     |                  |             |
|---------------------|------------------|-------------|
| 1                   | Miami            | 71.8        |
| 2                   | Austin           | 60.1        |
| 3                   | San Jose         | 57.6        |
| 4                   | San Diego        | 50.8        |
| 5                   | Denver           | 50.0        |
| 6                   | Seattle          | 45.4        |
| 7                   | Washington, D.C. | 43.5        |
| 8                   | Las Vegas        | 41.8        |
| 9                   | Portland         | 41.6        |
| 10                  | Charlotte        | 41.0        |
| 11                  | Los Angeles      | 40.3        |
| 12                  | Tampa            | 39.7        |
| 13                  | New York         | 39.1        |
| 14                  | San Francisco    | 38.6        |
| 15                  | Atlanta          | 37.1        |
| 16                  | Kansas City      | 35.9        |
| 17                  | Dallas           | 35.6        |
| <b>Peer Average</b> |                  | <b>33.6</b> |
| 18                  | Raleigh          | 33.4        |
| 19                  | Orlando          | 33.4        |
| 20                  | Minneapolis      | 31.3        |
| 21                  | Richmond         | 30.9        |
| 22                  | Jacksonville     | 29.7        |
| 23                  | Chicago          | 29.6        |
| 24                  | Houston          | 28.8        |
| 25                  | Phoenix          | 28.5        |
| 26                  | Sacramento       | 27.7        |
| 27                  | Salt Lake City   | 27.3        |
| 28                  | Oklahoma City    | 26.1        |
| 29                  | Louisville       | 25.4        |
| 30                  | Philadelphia     | 24.8        |
| 31                  | Boston           | 23.9        |
| 32                  | Indianapolis     | 22.9        |
| 33                  | Buffalo          | 22.5        |
| 34                  | Cleveland        | 22.4        |
| 35                  | Milwaukee        | 21.8        |
| 36                  | Baltimore        | 21.5        |
| 37                  | <b>St. Louis</b> | <b>20.6</b> |
| 38                  | Hartford         | 20.4        |
| 39                  | Columbus         | 20.0        |
| 40                  | Cincinnati       | 18.5        |
| 41                  | Detroit          | 18.1        |
| 42                  | Riverside        | 17.5        |
| 43                  | Nashville        | 17.5        |
| 44                  | Providence       | 17.5        |
| 45                  | New Orleans      | 14.9        |
| 46                  | Pittsburgh       | 14.7        |
| 47                  | San Antonio      | 14.4        |
| 48                  | Virginia Beach   | 13.1        |
| 49                  | Birmingham       | 11.7        |
| 50                  | <b>Memphis</b>   | <b>9.5</b>  |

Source: U.S. Census Bureau, Annual Survey of Entrepreneurs

# Startups

**Figure 6: Small Business Startups Per 100,000 People**  
St. Louis MSA, the Peer Regions, and the United States, 1990 to 2014



Source: U.S. Census Bureau, Business Dynamics Statistics

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## Advanced Degrees

Adults with post-graduate degrees as a percent of adults aged 25 and older, 2015

|                      |                  |             |
|----------------------|------------------|-------------|
| 1                    | Washington, D.C. | 24.0        |
| 2                    | San Jose         | 22.7        |
| 3                    | Boston           | 20.8        |
| 4                    | San Francisco    | 19.1        |
| 5                    | Baltimore        | 16.9        |
| 6                    | Hartford         | 16.4        |
| 7                    | Raleigh          | 15.9        |
| 8                    | New York         | 15.8        |
| 9                    | Denver           | 15.3        |
| 10                   | Seattle          | 15.0        |
| 11                   | Austin           | 14.8        |
| 12                   | San Diego        | 14.5        |
| 13                   | Philadelphia     | 14.3        |
| 14                   | Portland         | 14.0        |
| 15                   | Chicago          | 13.9        |
| 16                   | Minneapolis      | 13.9        |
| 17                   | Atlanta          | 13.7        |
| 18                   | Buffalo          | 13.2        |
| 19                   | Richmond         | 13.1        |
| 20                   | Pittsburgh       | 12.9        |
| 21                   | Kansas City      | 12.9        |
| 22                   | St. Louis        | 12.8        |
| 23                   | Columbus         | 12.4        |
| 24                   | Providence       | 12.1        |
| 25                   | Nashville        | 12.1        |
| 26                   | Detroit          | 11.7        |
| <b>United States</b> |                  | <b>11.6</b> |
| 27                   | Cincinnati       | 11.5        |
| 28                   | Cleveland        | 11.5        |
| 29                   | Milwaukee        | 11.5        |
| 30                   | Houston          | 11.4        |
| 31                   | Los Angeles      | 11.4        |
| 32                   | Salt Lake City   | 11.4        |
| 33                   | Virginia Beach   | 11.4        |
| 34                   | Louisville       | 11.3        |
| 35                   | Dallas           | 11.3        |
| 36                   | Indianapolis     | 11.2        |
| 37                   | Miami            | 11.2        |
| 38                   | Charlotte        | 11.1        |
| 39                   | Sacramento       | 11.1        |
| 40                   | Oklahoma City    | 10.6        |
| 41                   | Phoenix          | 10.5        |
| 42                   | New Orleans      | 10.4        |
| 43                   | Birmingham       | 10.4        |
| 44                   | Tampa            | 10.3        |
| 45                   | Memphis          | 10.3        |
| 46                   | Jacksonville     | 10.0        |
| 47                   | Orlando          | 9.5         |
| 48                   | San Antonio      | 9.3         |
| 49                   | Las Vegas        | 7.6         |
| 50                   | Riverside        | 7.2         |

Source: U.S. Census Bureau, American Community Survey 1-Year Estimates

## Post-Graduate Requirement

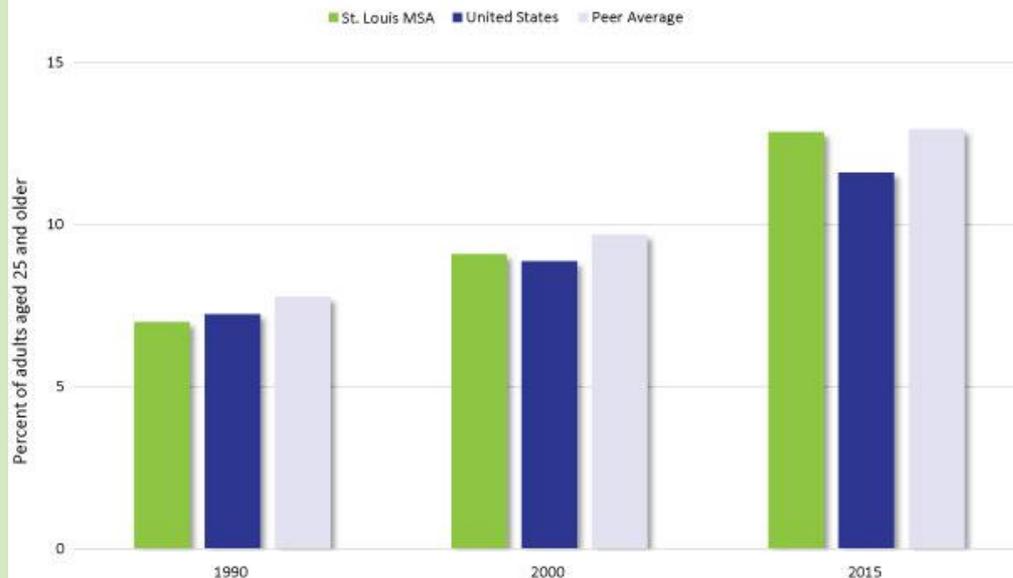
Percent of occupations that typically require a post-graduate degree, 2016

|                      |                  |            |
|----------------------|------------------|------------|
| 1                    | Washington, D.C. | 6.5        |
| 2                    | Boston           | 6.4        |
| 3                    | Baltimore        | 5.5        |
| 4                    | New York         | 5.4        |
| 5                    | Philadelphia     | 5.3        |
| 6                    | Buffalo          | 5.2        |
| 7                    | Providence       | 5.1        |
| 8                    | Pittsburgh       | 4.9        |
| 9                    | Oklahoma City    | 4.8        |
| 10                   | Cleveland        | 4.7        |
| 11                   | San Francisco    | 4.7        |
| 12                   | Richmond         | 4.7        |
| 13                   | San Diego        | 4.6        |
| 14                   | Denver           | 4.5        |
| 15                   | Birmingham       | 4.3        |
| 16                   | Sacramento       | 4.2        |
| <b>United States</b> |                  | <b>4.2</b> |
| 17                   | Portland         | 4.2        |
| 18                   | Columbus         | 4.2        |
| 19                   | San Jose         | 4.2        |
| 20                   | St. Louis        | 4.1        |
| 21                   | Minneapolis      | 4.1        |
| 22                   | Chicago          | 4.1        |
| 23                   | Milwaukee        | 4.1        |
| 24                   | Indianapolis     | 4.1        |
| 25                   | Raleigh          | 4.0        |
| 26                   | Seattle          | 4.0        |
| 27                   | Los Angeles      | 4.0        |
| 28                   | Cincinnati       | 3.9        |
| 29                   | Salt Lake City   | 3.9        |
| 30                   | Miami            | 3.9        |
| 31                   | Kansas City      | 3.9        |
| 32                   | Tampa            | 3.8        |
| 33                   | New Orleans      | 3.8        |
| 34                   | Detroit          | 3.8        |
| 35                   | Austin           | 3.7        |
| 36                   | Nashville        | 3.7        |
| 37                   | San Antonio      | 3.7        |
| 38                   | Atlanta          | 3.6        |
| 39                   | Phoenix          | 3.6        |
| 40                   | Memphis          | 3.6        |
| 41                   | Hartford         | 3.5        |
| 42                   | Louisville       | 3.5        |
| 43                   | Jacksonville     | 3.4        |
| 44                   | Dallas           | 3.3        |
| 45                   | Houston          | 3.3        |
| 46                   | Riverside        | 3.2        |
| 47                   | Charlotte        | 3.1        |
| 48                   | Orlando          | 3.1        |
| 49                   | Virginia Beach   | 2.4        |
| 50                   | Las Vegas        | 2.4        |

Source: U.S. Bureau of Labor Statistics, Occupational Employment Statistics

# Skilled Workforce

**Figure 8: Percent of Adults with an Advanced Degree**  
St. Louis MSA, the Peer Regions, and the United States, 1990 to 2015



Source: U.S. Census Bureau, Decennial Census; American Community Survey, 1-Year Estimate

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