**FAIRFAX COUNTY, VIRGINIA**

Industry Profile: Data and Analytics

Big data and analytics technologies enable public- and private-sector enterprises to store and quickly extract value from large and complex data sets via data capture, discovery, analysis and visualization. This profile provides information on the regional resources to support data analytics firms, key customers/industry verticals and selected companies that operate here.

### DATA AND ANALYTICS TALENT SNAPSHOT

- **242K**
  - Computer and Mathematical Workforce in Washington, D.C. Region

- **$110K**
  - Median Wage
  - Washington, D.C., MSA

- **#2**
  - Computer and Mathematical Workforce among all metro areas
  - Fairfax County ranks #8 among top 10 counties in the U.S. (out of 3,100+) for computer and mathematical workforce

- **2X**
  - More than twice the concentration of computer science and mathematics workers than U.S. average

**SOURCE:** JOBSEQ, U.S. BUREAU OF LABOR STATISTICS, OCCUPATIONAL EMPLOYMENT SURVEY, MAY 2020

### DATA ANALYTICS TALENT – WASHINGTON, D.C., REGION (SELECTED OCCUPATIONS)

<table>
<thead>
<tr>
<th>Occupation</th>
<th>Number of Workers</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Computer Occupations</strong></td>
<td></td>
</tr>
<tr>
<td>Computer and Information Research Scientists</td>
<td>3,470</td>
</tr>
<tr>
<td>Computer and Information Systems Managers</td>
<td>19,130</td>
</tr>
<tr>
<td>Computer Systems Analysts</td>
<td>22,930</td>
</tr>
<tr>
<td>Computer Network Architects</td>
<td>9,270</td>
</tr>
<tr>
<td>Database Administrators/Architects</td>
<td>7,000</td>
</tr>
<tr>
<td>Software Developers and Software</td>
<td></td>
</tr>
<tr>
<td>Q&amp;A Analysts and Testers</td>
<td>75,910</td>
</tr>
<tr>
<td>Web Developers and Digital Interface Designers</td>
<td>6,450</td>
</tr>
<tr>
<td><strong>Analytical Occupations</strong></td>
<td></td>
</tr>
<tr>
<td>Market Research Analysts and Marketing Specialists</td>
<td>24,220</td>
</tr>
<tr>
<td>Operations Research Analysts</td>
<td>6,910</td>
</tr>
<tr>
<td>Statisticians</td>
<td>4,820</td>
</tr>
<tr>
<td>Data Scientists and Mathematical Occupations - All Other</td>
<td>2,410</td>
</tr>
</tbody>
</table>

**MOST WORKERS IN ANY U.S. METRO REGION**

SOURCE: OCCUPATIONAL EMPLOYMENT STATISTICS, U.S. CENSUS BUREAU, MAY 2019

### COMMUNITY ASSETS/STRENGTHS

- 60+ regional colleges/universities and community colleges (all majors)
- 15K+ degrees and certificates awarded annually in data analytics-related disciplines
- Proximity to federal agency data producers and data privacy/data regulatory bodies
- Strong telecommunications network with the highest concentration of data center capacity in the world.
- Innovation ecosystem: 8,700 technology firms, research universities, VC firms and business incubators/accelerators

**SOURCES:** JOBSEQ, CUSHMAN & WAKEFIELD

### KEY CUSTOMER AND INDUSTRY VERTICALS

- Federal Agencies (Defense, Civilian, Intelligence)
- Fortune 500 Companies
- Corporate Headquarters
- Systems Integrators, IT Solution Providers
- Financial Services Companies
- Retail/Consumer Marketing
- Health Care/Health IT
DATA ANALYTICS – COMPANIES AND TALENT RESOURCES

WORKFORCE RECRUITMENT
1 Fairfax County Economic Development Authority – Talent Initiative
1 WorkinNorthern Virginia
1 Northern Virginia Careerworks – HQ
2 Fairfax County Pre-Release Center
3 Northern Virginia Careerworks – Fairfax/Alexandria Center
4 Northern Virginia Careerworks – Fairfax/Annandale Center
5 Northern Virginia Careerworks – Loudoun Center
6 Virginia Career Works – Fairfax Reston Center
7 Virginia Employment Commission – Alexandria
8 Virginia Employment Commission – Arlington
9 Virginia Employment Commission – Fairfax
10 Virginia Employment Commission – Prince William

EDUCATION
11 American University
12 Bowie State University
13 DeVry University
14 Gallaudet University
15 George Mason University
16 Georgetown University
17 George Washington University
18 Howard University
19 Marymount University
20 Northern Virginia Community College (NVCC) – Alexandria Campus
21 NVCC – Annandale Campus
22 NVCC – Loudoun Campus
23 NVCC – Medical Education Campus
24 NVCC – Prince William/Manassas Campus
25 NVCC – Woodbridge Campus
26 Prince George’s Community College
27 University of District of Columbia
28 University of Maryland – College Park

COMPANIES
○ HERndon
  Amazon Web Services
  Cisco
  IBM
  Juniper
  Syntasa

○ MERRIFIELD
  Knowesis
  Northrop Grumman

○ OAKeTON
  AT&T

○ RESTON
  Applied Information Sciences
  Clarabridge
  Noblis
  Optensity
  Oracle
  SAIC
  VMware

FOR MORE INFO
ALEX SANCHEZ
asanchez@fceda.org
703-790-0600

FAIRFAX COUNTY
ECONOMIC DEVELOPMENT AUTHORITY
8300 Boone Boulevard, Suite 450, Tysons, Virginia 22182 • 703-790-0600 • info@fceda.org • fairfaxcountyeda.org • @FairfaxEDA

December 2021