

# FAIRFAX COUNTY, VIRGINIA

## Industry Profile: Data Analytics



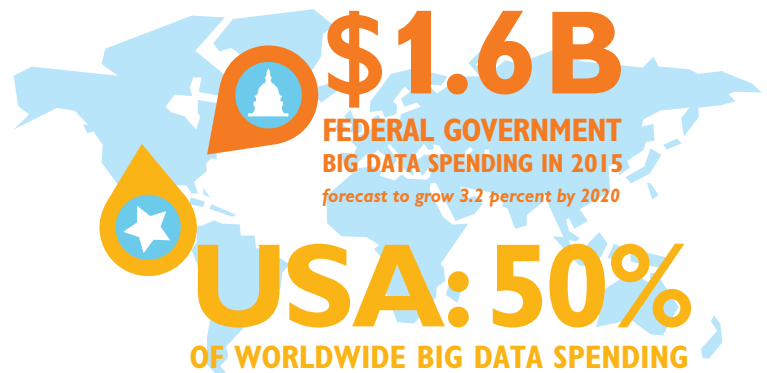
Big-data and analytics technologies enable public- and private-sector enterprises to store and quickly extract value from large and complex data sets via data capture, discovery, analysis and visualization. Many leading data analytics companies are headquartered or have major operations in Fairfax County.

### Fairfax County: The Setting for Your Big-Data and Analytics Success Story

Fairfax County offers a great location and excellent business opportunities for big-data and analytics enterprises:

- Unparalleled market access to large public and private sector clients, IT vendors, systems integrators and consulting firms;
- Exceptional Internet infrastructure, with 70 percent of world Internet traffic passing through northern Virginia Internet exchange points and data centers;
- An East Coast location with direct flights to New York City, Boston and major worldwide locations; and
- One of the best-educated populations in the United States, where 60 percent have attained a bachelor's degree or higher.

**\$24 B** WORLDWIDE MARKET FOR BIG DATA IN 2016

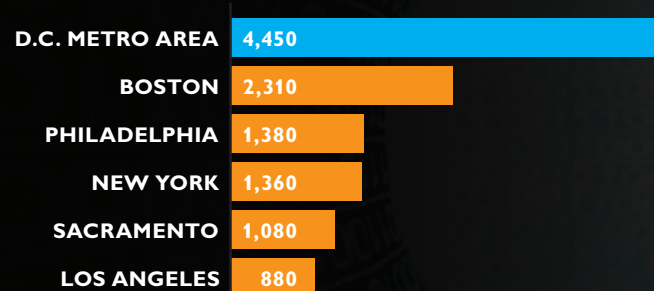


Sources: IDC, Deltek

### Workforce

The Washington, D.C., regional computer and mathematical workforce is the second largest in the United States among all metropolitan areas.

#### METRO AREAS WITH THE HIGHEST CONCENTRATION OF STATISTICIANS



### SELECTED HIGH-DEMAND OCCUPATIONS – WASHINGTON, D.C., REGION

Occupation	Number of Workers
<b>Computer Occupations</b>	
Computer and Information Research Scientists	3,300*
Computer and Information Systems Managers	17,170
Computer Occupations, All Other	26,230*
Computer Systems Analysts	26,150
Computer User Support Specialists	19,260
Network and Computer Systems Administrators	20,840
Software Developers, Applications	32,580
Software Developers, Systems Software	28,720*
<b>Analytical Occupations</b>	
Market Research Analysts	17,830
Operations Research Analysts	6,760*
Statisticians	4,450*

\*Most workers in any United States metro region

Source: Occupational Employment Statistics, U.S. Census Bureau, May 2015

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continued >

## FAIRFAX COUNTY ECONOMIC DEVELOPMENT AUTHORITY

## VERTICAL MARKETS IN FAIRFAX COUNTY



### Higher Education

- More than 9,300 degrees in big-data and analytics related fields were awarded in 2014.
- George Mason University, based in Fairfax County, offers innovative programs that prepare students for jobs and support cutting-edge research in emerging big-data fields:
  - Degrees and certificates in bioinformatics, bioinformatics management, data science and analytics, geo-informatics and health informatics
  - Research centers and laboratories, including the Center for Intelligent Spatial Computing, the Machine Learning and Inference Laboratory, the Center for Discovery Science and Health Informatics, the Microbiome Analysis Center, and the Software Design and Analysis Laboratory
- Northern Virginia Community College is the second-largest producer of graduates with associate degrees in computer and information sciences in the United States.
- Other regional universities with big-data and analytics programs include:
  - George Washington University – MS degree in business analytics; Center for Data Analysis and High Performance Computing Laboratory
  - Georgetown University – Massive Data Institute
  - University of Virginia – Big Data Institute
  - Virginia Tech – Center for Business Intelligence and Analytics

## BIG-DATA AND ANALYTICS CLUSTER IN FAIRFAX COUNTY

### \$ DEMAND SIDE: TARGETED VERTICALS

- Federal Agencies (Defense, Civilian and Intelligence)
- Financial Services Companies
- Fortune 500 Companies
- Health Care/Health IT
- Major Corporate Headquarters
- Retail/Consumer Marketing
- Systems Integrators and IT Solution Providers

### ➔ SUPPLY SIDE – SELECTED COMPANIES

#### INFRASTRUCTURE/HARDWARE (STORAGE, SERVERS AND NETWORKS)

Amazon Web Services	Cloudera	Juniper
AT&T	Compuware	NetApp
Brocade	Dell	SanDisk
CenturyLink	HP	Terremark
Cisco	IBM	VMware

#### SOFTWARE (ANALYTIC AND DEVELOPMENT TOOLS)

Actuate	IBM	Orchestro
Basho	Informatica	Salesforce
BMC Software	<b>Logi Analytics</b>	SAP
CA Technologies	<b>MarkLogic</b>	SoftwareAG
<b>Clarabridge</b>	Microsoft	<b>SYNTASA</b>
<b>DataRPM</b>	<b>MicroStrategy</b>	TIBCO Software
EMC	<b>Novetta</b>	URReveal
HP	<b>Optensity</b>	<b>Zoomdata</b>
	Oracle	

#### SERVICES (INDUSTRY APPLICATIONS, INSIGHT AND VALUE)

<b>Altamira</b>	<b>comScore</b>	<b>Noblis</b>
Attivio	<b>CSC</b>	<b>Northrop Grumman</b>
<b>Booz Allen Hamilton</b>	Deloitte	<b>NTELX</b>
CACI	<b>Hilton Worldwide</b>	<b>SAIC</b>
<b>Capital One</b>	IBM	Splunk
CGI Federal	<b>K12</b>	<b>TASC</b>
	<b>MITRE</b>	

Note: Companies with headquarters in the county appear in **boldface**.



September 2016

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