

This demand has created a serious data analytics skills gap and companies

hiring data scientists face recruitment challenges. This infographic looks at the talent gap in data analysis and how companies can attract the best candidates.

Careers in Data Analytics JOB OUTLOOK

Employment growth

Employment of computer and research scientists is

projected to grow 11% in the ten years from 2014 to 2024 ✓ Significantly faster than growth for all occupations (7%)







of U.S. organizations have or planned to have positions that require data analysis skills in 2016









expect to increase the number of

positions requiring



positions in the past 12 months





data analysis skills in the next five years In 2016, 83% of data scientists reported a shortage in their field ✓ Up from 79% in 2015



report problems being able to recruit for data analysis positions in the last 12 months













44% have a

master's degree

of all 4-year educational institutions.

649 4-year institutions offer

at least one analytics program.





18%



have a

computer

48% have a

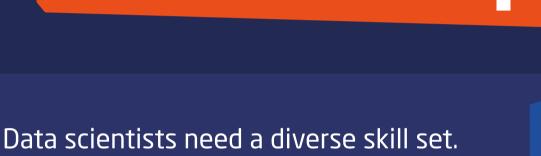
PhD



28%



science degree





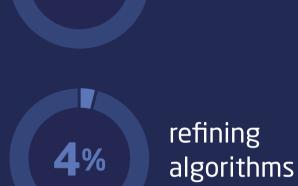
60%

9%

cleaning and collecting **19**% organizing data data sets

Data scientists report spending most of

their day doing the following job activities.





69%

Most common job responsibilities

Exploratory data

analysis 69%.

Communicating

findings to business

mining data

for patterns

building

training sets



Conducting data 47%

56%

49%

39%

36%

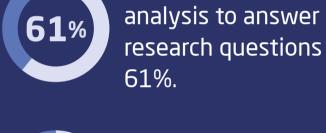
32%

Hadoop

Python

Java

for data scientists include:







49%





Creating

49%.

visualizations

Identifying

business problems

to be solved with



Top 5 in-demand programming

language skills for data scientists.

of SQL positions listed this requirement.

78% of companies report that big data has the potential to fundamentally change the way they do business in the next 1 - 3 years.

agree that their company is **58**% positioned well to capitalize on the potential.

Only 58% agree or strongly

same timeframe.



32% see big data initiatives

as being mission critical.

☑ Up from 23% in 2014.

32%

10%

Financial

Services

71% believe that big data will generate

new revenue opportunities and/or lines

of business for their company in the



5%

64%



2%

RANGE OF INDUSTRIES

DATA SCIENTISTS WORK IN



8%

Consulting

8%

Corporate

Only 2% of firms report that big data

was not important to the firm.

12%

Marketing

plentiful and relatively easy to find of data scientist job applicants report finding a new role was easy or very easy.

Top 5 Recruitment Best Practices: Partner with an academic institution offering a data analytics program. Mentoring and internship programs can create positive relationships with future graduates.

Remain flexible about skill requirements.

With high demand and low supply, the chances

of finding candidates with experience in every skill requirement is unlikely. Invest in training and development programs

for in-house talent. Developing a talent pipeline in your own

organization will build morale and fill the skills gap.

Work with specialized recruiters. └-• IT recruiters already have a pool of qualified or

near qualified candidates; utilize them.

on staff. -- A trusted service partner with the required expertise can help bridge talent gaps.

Hire service partners who have qualified experts

ILLANOVA

https://www.glassdoor.com/Salaries/data-scientist-salary-SRCH_K00,14.htm http://www.burtchworks.com/files/2016/04/Burtch-Works-Study_DS-2016-final.pdf http://www.idgenterprise.com/resource/research/tech-2016-data-analytics-research/ http://visit.crowdflower.com/rs/416-ZBE-142/images/CrowdFlower_DataScienceReport_2016.pdf http://www.informationweek.com/big-data/9-tips-for-hiring-data-science-talent/d/d-id/1326493 http://newvantage.com/wp-content/uploads/2016/01/Big-Data-Executive-Survey-2016-Findings-FINAL.pdf http://www.forbes.com/sites/bernardmarr/2016/09/16/5-creative-ways-to-access-big-data-talent/#39b3ac6b580c

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