KPMG

Empowering with information

KPMG Data & Analytics

Your Career. Inspired.

Our team

Our methods and capabilities

The KPMG Data & Analytics (D&A) team creates leading-edge technology, products, and data and analytics solutions to help its FORTUNE 1000 clients leverage predictive analytics, big data, mobile applications, and the cloud. The group tackles problems in advanced modeling, machine learning, optimization, and data science to utilize a variety of data sources, including structured and unstructured data that scale to big data. The team works with external clients, KPMG teams, and internal KPMG services to solve challenging and emerging problems in innovative ways across all KPMG practices.

KPMG's approach utilizes an interdisciplinary and cross-functional team of personnel.

Our portfolio of services focuses on solving our clients' specific business needs, or enabling them to develop data and analytics capabilities.

Data scientists

— Strong experience in analytics, statistics, data mining, machine learning, natural language processing, and/or mathematics

— Problem-solving ability through the use and/or development of algorithms, models, testing, etc.

— Substantial ability to work with data sources and transform data sources for analysis

— Generally MS or PhD-level math, statistics, physical science, econometrics, or engineering

D&A modelers

— Strong business consulting acumen and statistical background, combined with real-world experience in applying analytics to solve business issues

— Practical understanding of advanced analytics methods or big data software; client solutioning experience

— Ability to partner with clients, KPMG data scientists, and KPMG software engineers to codevelop requirements or solutions

Big data software engineers

— Strong experience with large-scale, streaming, or distributed processing platforms, such as Hadoop, Storm, Kafka and Spark

— Sophisticated ability to rapidly ingest, transform, and mine data

— Ability to evaluate, design, build, test, and manage big data architectures
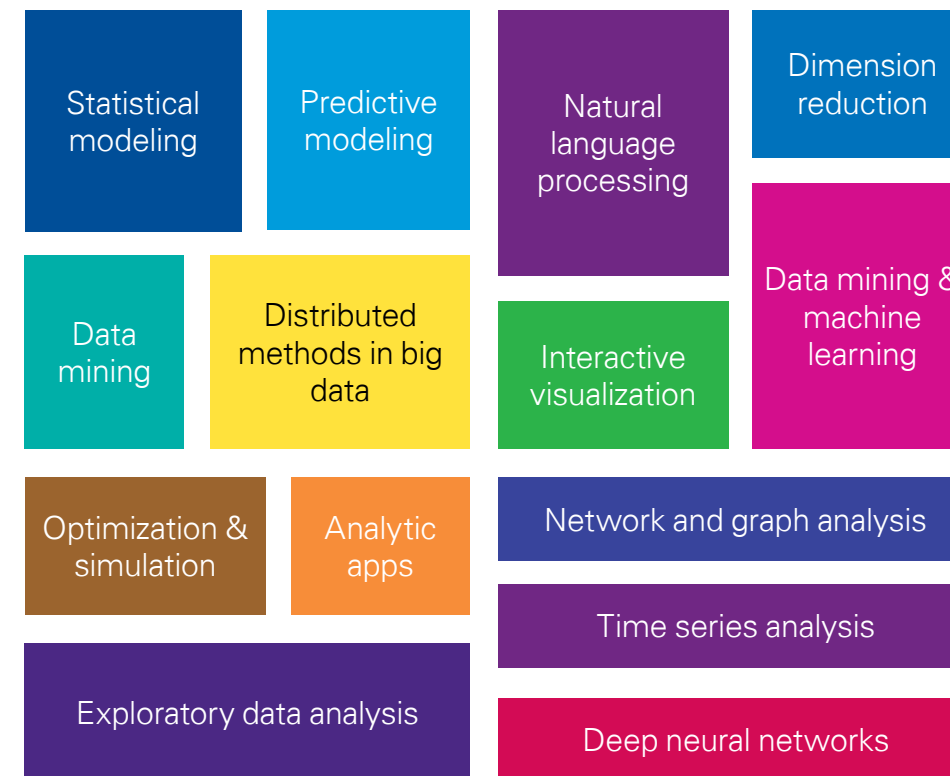
D&A engineers

— Strong ability to develop and deploy big data architecture components to support streaming or large-scale data processing

— Practical knowledge of data ecosystems to support evidence-driven business processes, with client solutioning experience

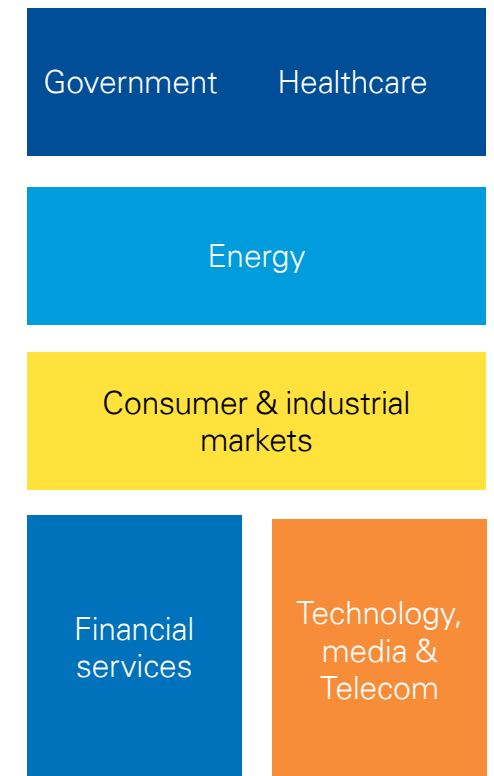— Partner with clients, KPMG data scientists, and KPMG software engineers to codevelop requirements or solutions

Methods

				Industries	
Statistical modeling	Predictive modeling	Natural language processing	Dimension reduction	Government	Healthcare
Data mining	Distributed methods in big data	Interactive visualization	Data mining & machine learning	Energy	
Optimization & simulation	Analytic apps	Network and graph analysis		Consumer & industrial markets	
Exploratory data analysis		Time series analysis		Financial services	Technology, media & Telecom
		Deep neural networks			

KPMG's D&A team utilizes a variety of technologies and tools to efficiently and effectively solve complex client problems.

R
Tableau
Theano
Java
Informatica
Microsoft
Elasticsearch
Alteryx
D3.js
GitLab
Solr
Spark
SAS
Tensorflow
Spotfire
PostgreSQL
Python
Hortonworks
Keras
QlikView
SQL Server
MongoDB
Kettle

We solve challenging and emerging problems in innovative ways.

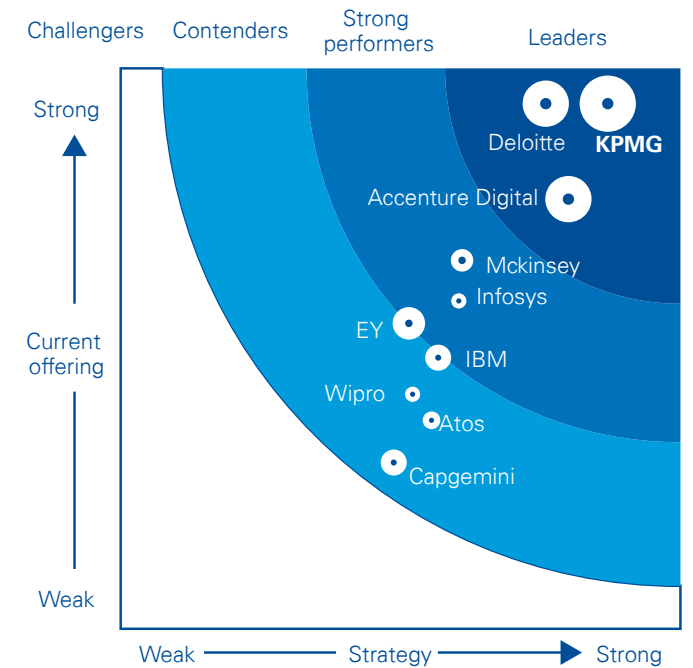## The Forrester Wave: Insight Service Providers, Q1 2017

According to industry analysts at Forrester, "KPMG cracked the code for balancing business and technology expertise. KPMG comes to the table with an impressive portfolio of data and analytic 3s capabilities, brought together in its Lighthouse Center of Excellence (CoE). Recognizing the importance of trust in an insights provider, KPMG's comprehensive approach to bridging a potential 'trust gap' includes collaboration to define business objectives, design engagements, and deliver results. Compelling decision tools present insights, alternative actions, and potential outcomes and differentiate KPMG's implementation support. KPMG's broad ecosystem is the gold standard among insights service providers. Of particular note is its partnership with McLaren Applied Technologies, which extends racetrack-proven optimization to a wide range of business domains. Seven data partnerships enhance industry-specific offerings. And KPMG's dedicated investment fund keeps it on the forefront of innovation."

Gartner Magic Quadrant for analytics

KPMG is achieving new heights in the Gartner Magic Quadrant for analytics, worldwide. Within three years, KPMG D&A has continuously moved up in the rankings, starting at "Niche" in 2014 to "Visionary" in 2015 and now to the "Leader" quadrant for 2016 in the most recent report.

Challengers | Contenders | Strong performers | Leaders

Strong

Current offering

Weak

Deloitte — KPMG
Accenture Digital
Mckinsey
Infosys
EY
IBM
Wipro
Atos
Capgemini

Weak ← Strategy → Strong

The Forrester Wave is copyrighted by Forrester Research Inc. Forrester and Forrester Research, Inc. The Forrester Wave™ is graphical representation of Forrester's call on a market and is plotted using a detailed spreadsheet with exposed scores, weightings, and comments. Forrester does not endorse any vendor, product, or service depicted in the Forrester Wave. Information is based on best available resources. Opinions reflect judgment at the time and are subject to change

Gartner
Magic Quadrant

Our ideal candidate

Our candidates have both the technical and interpersonal skills and qualities to complement our top-performing and innovative teams.

- **Analytical skills:** Solid foundations in math, statistics, computer science and/or data mining
- **Design skills:** Rapid and interactive design, prototyping, and implementation
- **Business acumen:** Knowledge of or strong aptitude for quick learning of business operational, process, delivery, and revenue models
- **Problem solving:** Nimble, creative ability to attack problems and identify work-arounds and solutions, leveraging learnings from diverse, past experiences

- **Programming languages:** Python, Scala, Java, R, SAS, and Javascript
- **Distributed systems:** Experience with programming distributed systems, such as MapReduce, Spark, and NoSQL systems
- **Visualization and presentations skills:** Solid understanding of visual composition and visualizations; ability to break down ideas for audiences at varying levels of technical ability

- **Communication skills:** Strong written and verbal communication skills
- **Team work:** Ability to work in dynamic team environments and multitask effectively
- **Professional ownership:** Ability to fully own and lead work stream thinking and execution, including planning, phasing, and updates to leadership

The KPMG experience

We develop impactful and lasting solutions for our clients' most pressing issues while providing you with a rewarding career.

Engagement teams

Mentoring & training

Career progression

- **Engagement team size:** Engagement teams can range from small teams of two to large teams with more than a dozen consultants.
- **Engagement length:** Engagements can last anywhere from a few weeks to a year, but most fall within the 8- to 12- week range.
- **Travel opportunities:** Often, the project team will travel to the client site and work out of client offices; opportunities for alternate travel exist, allowing consultants to travel to a city other than their home city for the weekend.

- **Mentoring and onboarding:** New hires receive both an onboarding buddy to help them navigate the firm in the first few months and a performance management leader who acts as a mentor throughout your career.
- **Training opportunities:** Significant formal and informal training opportunities are available, ranging from Lunch and Learns with Hortonworks and Tableau to online courses through KPMG Business School to Advisory University where you will spend a week in a classroom setting learning with 5,000 of your KPMG colleagues.

- **Career progression:** Progression follows a well-defined career path. New hires joining as associates or senior associates can expect to spend two to four years in each position before becoming a manager.
- **Alternate career paths:** Those who do not seek to follow the typical consulting career path have the opportunity to follow a specialist's career path and use their technical skills to enhance our market development, delivery, or innovation capabilities.

A day in the life

Monday

5:30 a.m.
— Wake up, grab your suitcase and laptop, and catch a cab to the airport.
— Scan e-mails as you are on the way to the airport to determine whether there have been any important project developments over the weekend.

7:00 a.m.
— Check in to your flight and make your way through security.
— Grab breakfast at Starbucks and board your flight.
— On the flight, continue work on a fuzzy matching algorithm that uses edit distance, string proximity, and logistic regression to join data fields for a claims analytics system the team is building.

10:00 a.m.
— Arrive at the client site and check in with the team; review upcoming deliverables, project risks, and progress against time lines.
— Integrate fuzzy matching algorithm into data processing pipeline; check results; and output the results to Tableau.
— Review fuzzy matching results with your manager, identifying problem areas, and work through alternate solutions.

2:00 p.m.
— Meet with client to review project status, impediments to progress, and next steps; briefly discuss fuzzy matching results, noting that, in 96 percent of cases the results appear accurate against hand-scored results.
— Client requests a new data element be added to the dashboards that are being constructed; several tables will need to be updated to accommodate this task.

4:00 p.m.
— Debrief on the client meeting and discuss next steps in updating the dashboards and tables to accommodate the client request.
— Catch up on e-mails and begin making adjustments to the dashboards, which will be reviewed with the client tomorrow.

7:00 p.m.
— Leave the client site and check in to your hotel a few blocks over.
— Meet-up with a team member and head to a nearby restaurant to grab dinner.

8:00 p.m.
— On getting back to the hotel, head to the gym and grab a quick workout.
— Check your e-mail and spend an hour working on a retail pricing optimization innovation project.

A year of growth

June — Welcome aboard! Attend new-hire training to learn how to live and work within KPMG. Meet your teammates at your home office, and work with your Transition Coach to start thriving in the D&A Group!

July — Begin your first project! Meet your teammates for an introduction to the industry, and begin working with your engagement manager to plan how your skills can contribute to delivering a supply chain optimization solution.

August — Work with the client team to design an approach to tackling supply chain optimization, predicting spikes in demand, and simulating the effects of process hiccups on the overall supply chain. Delve into the technical components required, and seek out data needed to train models.

September — Dig into the D&A Group's tech stack to prove out a prototype for a new optimization algorithm, processing vast amounts of data and finding the optimized solution.

October — As your project hits its stride, get involved in a proposal to a new client, getting introduced to the ins and outs of project planning, technology choices, and structuring an engagement team.

November — Wrap your project with a presentation to client leadership. Be in the room as the CEO commends your use of predictive analytics to solve one of her company's most challenging issues!

December — Relax as the firm takes a break over the holidays—until the new year!

January — Begin the year working on a proposal to apply the optimization techniques that you developed to how a manufacturer queues their production line. Work with relationship partners and managing directors who know the client best to apply your methods to a new domain.

February — Congratulations! The proposal was accepted! Kick off the new project with the client's leadership and their own data science team, working collaboratively to begin the new journey.

March — Instead of heading home for the weekend, take advantage of KPMG's flexible travel policy to see springtime in a new part of the country!

April — Work on your client delivery and soft skills at Advisory University Live, a week long training session hosted at KPMG's brand new training facility in Orlando, Florida.

May — Begin planning to attend a summer analytics conference, attend tutorials on a new deep learning platform, and share with others in the industry how your work at KPMG uses neural network technology to help our clients work faster and better!

KPMG by the numbers

@ Contacts

2018 FORTUNE 100 Best Companies to Work For

Revenue growth in the U.S. over the last 3 years **9%**

84% of the **FORTUNE Global 500** are KPMG Clients

KPMG created more than 8000 new jobs globally

Around the world and in the U.S.

200,000 Global Professionals

35,000 KPMG U.S. Professionals

$26.4 BILLION IN GLOBAL REVENUE

$9 BILLION IN U.S. REVENUE

700 Global cities with KPMG offices

100 U.S. cities with KPMG offices

2,689 KPMG Professionals on global rotations in **100** countries

37,000 Global Entry-Level Professionals Hired

Total KPMG giving **$47.7M** donated to charitable organizations

208 Diversity Networks and Councils throughout the firm

National recruiting contact:

Jennifer McCanty
Campus Recruiting
jmccanty@kpmg.com

Some or all of the services described herein may not be permissible for KPMG audit clients and their affiliates or related entities.

kpmgcampus.com

kpmg.com/socialmedia