JOB POSTING

Title:	**Data Scientist – BCG Gamma**
Location:	Munich, Berlin, London, Paris
Contact:	Sorian Petkoff, Regional Recruiting Manager (petkoff.sorian@bcg.com)
Status:	Regular, full time

ABOUT US

The Boston Consulting Group (BCG) is a global management consulting firm and the world's leading advisor on business strategy. We partner with clients from the private, public and not-for-profit sectors in all regions to identify their highest-value opportunities, address their most critical challenges, and transform their enterprises. Our customized approach combines deep insight into the dynamics of companies and markets with close collaboration at all levels of the client organization. This ensures that our clients achieve sustainable competitive advantage, build more capable organizations, and secure lasting results. Founded in 1963, BCG is a private company with 81 offices in 45 countries.

BCG Gamma designs and builds powerful analytics-based solutions designed to help our clients tackle their most pressing business problems. We are an interdisciplinary team of data scientists and BCG consultants, collectively delivering a unique combination of domain expertise, analytics know-how, and leading technologies. Our teams own the full analytics value-chain end to end: framing new business challenges, building fact-bases, designing innovative algorithms, creating scale through creating tools and apps, and training colleagues and clients in new solutions. BCG Gamma is a global capability, working with clients in every BCG region and in every industry area. The team partners with BCG practices, including Operations and Marketing, Sales, and Pricing. BCG Gamma is a core member of a rapidly growing analytics enterprise at BCG – a constellation of teams focused on driving practical results for BCG clients by applying leading edge analytics approaches, data, and technology.

ROLE SUMMARY

We are seeking strong candidates with advanced analytics experience to start an **exciting Consultant career within BCG Gamma with a focus on Data Science**. The role provides an opportunity to design and build analytics methodologies, solutions, and products to deliver extraordinary value to BCG's clients in collaboration with consultants form other BCG practices. Exceptional candidates will show an analytical curiosity going beyond the immediate requirements of the project to find deep insights that others have missed. They will ask questions about outliers, seek to understand the fundamental drivers of advantage and look for clues that may change the basis of competition.

As the field of advanced analytics is rapidly evolving, all members of the Gamma team are responsible for staying current on leading-edge business applications, tools and approaches, proactively working with the Analytics Leadership to enhance offerings that deliver competitive advantage to BCG.

BCG Gamma is a fast-paced, intellectually intense and highly service-oriented work environment. Our current global hubs are Berlin, Boston, London, Los Angeles, Munich, or Paris. Candidates should expect to spend between 40–80% of their time traveling.

RESPONSIBILITIES

The primary responsibilities of an **Analytics Associate** (entry level) involve research and advanced analysis. An Analytics Associate is responsible for gathering and analyzing complex data assets, exploratory analysis and statistics, modeling and algorithm design, identifying insights, and building strong analytics solutions. The team interaction centers on intensive analysis of objective data and models, as well as open discussion with clients and the larger project team. Responsibilities / duties to include: gathering and organizing large and complex data assets, building connections to client analytics teams, building models and algorithms to analyze and explore data, form hypotheses, reach conclusions and communicate those findings in a structured way.

As a **Data Scientist** (advanced level) you design and build analytics solutions for our clients where data and analytics are at the heart of the question. The team interaction centers on use of statistical programs and others tools to conduct intensive analysis of objective data and open discussion, complemented by objective research into the competitive environment. Responsibilities / duties to include: understand problems from the client's point of view, build and execute solid analytics work plans, gather and organize large and complex data assets, perform relevant analyses (data exploration and statistical modeling), manage priorities and deadlines, foster teamwork in interactions, develop client relationships with client counterparts, and communicate hypotheses and findings in a structured way.

REQUIREMENTS

Education & Experience

- Advanced degree with excellent academic achievements in a field linked to computer science, applied mathematics, statistics, machine learning, or related data centric areas, or
- Relevant internships or up to 6 years of post-college industry or consulting experience (BCG level will be determined depending on previous experience and interview performance)
- Deep technical and data science expertise, acute strategic and analytical skills, ability to lead and persuade, drive and energy, and desire to work in a project based environment on strategic issues
- Strong record of extracurricular activity, professional accomplishment and topic leadership
- Strong passion for and interest in data science topics
- Excellent analytical skills and strategic thinking
- Creative, yet structured problem solver
- Strong organization and project management skills
- Able to work in a fast-paced environment and to manage multiple tasks in parallel
- Strong interpersonal credibility, reliability, and service mentality
- Highest ethical standards, able to maintain discretion and confidentiality
- Autonomous self-starter
- Excellent written and verbal communication skills in English. Candidates applying for Germany should also be fluent in German, candidates applying for Paris should also be fluent in French.

Technical competencies

- Experience in core analytics methods (**one or more of the following**):
  - Statistics (t-tests, ANOVA)
  - Variable reduction (FA, PCA)
  - Segmentation/clustering techniques
  - Geographic cluster recognition and manipulation techniques
  - Predictive modeling: e.g. logistic regression, linear regression
  - Network analysis (location-allocation, travelling sales person, vehicle routing problem)
  - Time series analysis: e.g. ARIMA, VAR, etc.

- o Machine learning: e.g. LCA, Random Forest, neural networks
- o Spatio-temporal analysis
- o Time series analysis (ARIMA, VAR, etc.)
- o Text mining & unstructured data analytics
- o Simulation, e.g. MC, dynamic, discrete event
- o Optimization, e.g. linear programming, heuristic approaches

- Familiarity with a broad base of analytics tools as:
  - o Data management, e.g. Excel, SQL, PostGRESql, Hadoop/Hive, Alteryx
  - o Analytics platforms, e.g. R (preferred), SAS, RapidMiner, SPSS
  - o Data visualization, e.g. Tableau, GIS toolkits (ESRI, Quantum GIS, MapInfo or similar), ESRI Network Analyst, RouteSmart, RoadNet or similar, GPS data analysis a plus
  - o Programming and/or scripting exp., e.g. Python (preferred), C#, VBA, Java, Perl, etc.

- Experience in applied analytics for business problem solving/experience building analytical solutions (**preferably one or more of the following, others a plus**)
  - o Pricing and promotional effectiveness
  - o Delivery fleet consolidation
  - o Loyalty program effectiveness
  - o Network real estate reorganization
  - o Customer segmentation and targeting
  - o Delivery footprint/territory expansion (or reduction)
  - o Customer LTV maximization
  - o Cost modeling of transportation & logistics operations
  - o Churn prevention

BCG is an Equal-Opportunity Employer.