

What is a data scientist?

At its core, a Data Scientist works with data to solve problems that deliver business value.

With BCG X you're not just crunching numbers—you'll design intelligent systems, uncover hidden patterns, and use machine learning to make smarter decisions at scale.

The role is cross-functional

While Data Scientists often overlap with Data Analysts, Data Engineers, and DevOps, at BCG X, the focus is usually on modeling—building systems that predict and explain outcomes.

It's about applied intelligence

You'll take messy, real-world data and use it to drive smarter decisions for real businesses. Expect ambiguity. Expect iteration. Expect impact.

The core skill set includes:

- Statistics – Understanding patterns and variability
- Mathematics – Framing problems and structuring models
- Programming – Writing code to analyze and build
- Communication – Turning data output into business insight



Approach the work like a data scientist



BCG X is using data science to help companies generate competitive advantage and transform their businesses. To do this, we typically follow a **5-step methodology** when approaching a case:

1. **Understand the business and frame the problem**
What is the context of this problem and why is the client trying to solve it?
2. **Exploratory data analysis and data cleaning**
What data are we working with, what does it look like and how can we make it better?
3. **Feature engineering**
Can we enrich this dataset using our own expertise or third-party information?
4. **Modeling and evaluation**
Can we use this dataset to make predictions? If so, are they reliable?
5. **Insights and recommendations**
How can we communicate the value of our predictions by explaining them in a way that matters to the business?