

# Senior Expert Data Science

Job ID  
REQ-10027677  
Nov 11, 2024  
India

## Summary

Work closely with project teams and innovation teams to drive use of statistical and data science methods in combined lab and computational experimental planning, analysis and reporting for the development of drug product formulations. Enable scientists to independently work with basic statistical methods while directly supporting advanced statistical and data science tasks. Apply statistical and data science methods to generate business insights for continuous improvement and enhancing our ways of working.

## About the Role

### Major accountabilities:

- Project manages own tasks and work with team members; plans proactively, anticipates, and actively manages change,
- Supports teams to set stakeholder expectations as required, identify operational risks and provide insights leading to effective mitigations.
- Collaborate with internal stakeholders, external partners, and cross-functional teams to solve critical business problems.
- Research, develop and/or co-develop new algorithms, methods, statistical models and business models and providing insight into structured and unstructured data.
- Quickly learn to use tools, data sources and analytical techniques needed to answer a wide range of critical business questions
- Assist in building and rolling out tools to enable scientific colleagues to effectively analyze large amounts of data using basic statistical tools with minimal oversight.
- Support the evaluation of novel software, visualization tools and new approaches to statistics and AI to increase efficiency and quality of the Novartis practices.
- Independently identify research articles and propose them for application to Novartis business problems.
- Interface between IT and business needs for lab digitalization.
- Articulate solutions/recommendations to business users.
- Present analytical content concisely and effectively
- Ability to provide understandable and actionable business intelligence for key stakeholders.

### Minimum Requirements:

#### Education and Work Experience:

- Minimum: Advanced degree in statistics, data science, physical science, engineering, pharmaceuticals or relevant discipline (PhD or equivalent) with a strong focus on DoE, combining experiments and

- simulations or data science techniques. Desirable: Ph.D. in scientific or relevant discipline or equivalent
- Experience in pharmaceuticals, food, chemicals, oil and gas or similar.
  - Master's with 8-10 years' experience or PhD with 4-6 years' experience.
  - Expert in statistical experimental design such as Design of Experiments, Python/R programming, Machine learning, Statistical analysis, Lab experimentation, Curiosity, Collaboration, Agile, Adaptability, Scientific acumen, Presentation/writing skills, Bayesian optimization etc.
  - Expert in multi-variate data analysis
  - Interdisciplinary thinking and interest in collaboration with other functions.
  - Successfully demonstrated track record of creativity and problem solving in projects.
  - Strong presentation skills and scientific/technical writing skills.
  - Good project management skills.
  - Good communication skills, organizational, planning and negotiation skills.
  - Coaching skills
  - Curiosity
  - **Skills (Desirable but not mandatory)**
  - Knowledge of relevant GLP, GMP regulations and policies.
  - Understanding of the development of pharmaceutical formulations including solid understanding of QbD principles
  - Applied Mathematics, Statistical modelling, Data Science. Data Visualization.

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**Why Novartis:** Helping people with disease and their families takes more than innovative science. It takes a community of smart, passionate people like you. Collaborating, supporting and inspiring each other. Combining to achieve breakthroughs that change patients' lives. Ready to create a brighter future together? <https://www.novartis.com/about/strategy/people-and-culture>

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Division

Development

Business Unit

Innovative Medicines

Location

India

Site

Hyderabad (Office)

Company / Legal Entity

IN10 (FCRS = IN010) Novartis Healthcare Private Limited

Functional Area

Data and Digital  
Job Type  
Full time  
Employment Type  
Regular  
Shift Work  
No  
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Novartis is committed to building an outstanding, inclusive work environment and diverse teams' representative of the patients and communities we serve.

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