

## Senior Expert Data Science/Associate Director Data Science

Job ID  
REQ-10044302

8月 06, 2025

USA

### 摘要

This position will be located at the East Hanover, Durham or Cambridge site and will not have the ability to be located remotely.

We are seeking a talented and motivated Senior Expert Data Scientist to join our team and contribute to driving data-driven decisions and optimizing the development of biopharmaceutical manufacturing processes through insightful data analysis and visualization. The successful candidate will play a key role in establishing data flows and connections from laboratory systems to data science platforms, advancing our understanding of bioprocesses, and contributing to the optimization and improvement of our development processes.

### About the Role

We are seeking a talented and motivated Senior Expert Data Scientist to join our team and contribute to driving data-driven decisions and optimizing the development of biopharmaceutical manufacturing

processes through insightful data analysis and visualization. The successful candidate will play a key role in establishing data flows and connections from laboratory systems to data science platforms, advancing our understanding of bioprocesses, and contributing to the optimization and improvement of our development processes.

#### Responsibilities:

- Lead efforts to establish data flows and connections from laboratory systems to our data science platform. Demonstrate high agility to work across various business domains, including IT, engineering, laboratory teams, and collaborating partners, to identify data sources and develop data extraction methods that ensure data integrity and security.
- Quickly learn the use of tools, data sources, and analytical techniques needed to answer a wide range of critical business and scientific questions.
- Design and implement data pipelines to ingest, clean, and transform raw data for analysis. Leverage statistical and machine learning techniques to analyze integrated data sets, both structured and unstructured, extracting valuable insights into biopharmaceutical manufacturing processes. Communicate these findings to business users through compelling business presentations, interactive visualization tools, and contextual storytelling techniques, ensuring a clear and impactful understanding of the derived insights from data analysis.
- Develop and maintain data models and schemas to support ongoing data analysis and reporting needs.
- Be adaptable in providing support for a wide array of assessments, including process comparability, when necessary.
- Stay abreast of advancements in data technologies and best practices, recommending and implementing improvements to data infrastructure, models, and techniques as needed.
- Actively participate in data projects, defining scope, timelines, and resource allocation, ensuring successful execution. Collaborate proactively with team members to plan, anticipate change, manage stakeholders, identify risks, and resolve issues.

#### Essential Requirements:

This is a dual posting. The final level & title of the offer role would be determined by the hiring team based on the skills, experience & capabilities required to perform the role at the level the role has been offered (Senior Expert/Associate Director):

- Bachelor's Degree with 7 years / Masters Degree with 5 years/ PhD with 1 year of experience or dedicated post doc / graduate training in the field of bioprocess or data science. A combination of relevant industry experience and education will also be considered. Training and experience demonstrating proficiency in data management will be valued.
- Proficiency in programming languages such as Python or R.
- Preferred knowledge of bioprocess engineering and biopharmaceutical manufacturing, with optional experience in cell or gene therapy (lentiviral or adenoviral technology).
- Excellent teamwork and communication skills, with a collaborative and proactive approach to problem-solving.
- Strong analytical and problem-solving skills, with the ability to interpret and communicate findings effectively to both technical and non-technical stakeholders.
- Strong understanding of modeling and statistical concepts.

#### Desirable Requirements:

- Experience with app development platforms like Redhat Openshift or Posit Connect is preferred.
- Familiarity with web development technologies including JSON, CSS, and HTML is preferred.
- Experience with tools and platforms commonly used in the biopharmaceutical industry (e.g., JMP/JSL/SAS, SIMCA, AVEVA PI) is strongly preferred.

Novartis Compensation and Benefit Summary: The pay range for this position at commencement of employment is expected to be between: \$119,700 and \$222,300/year for the Senior Expert level and \$145,600 and \$270,400 for an Associate Director level; however, while salary ranges are effective from 1/1/25 through 12/31/25, fluctuations in the job market may necessitate adjustments to pay ranges during this period. Further, final pay determinations will depend on various factors, including, but not limited to geographical location, experience level, knowledge, skills, and abilities. The total compensation package for this position may also include other elements, including a sign-on bonus, restricted stock units, and discretionary awards in addition to a full range of medical, financial, and/or other benefits (including 401(k) eligibility and various paid time off benefits, such as vacation, sick time, and parental leave), dependent on the position offered. Details of participation in these benefit plans will be provided if an employee receives an offer of employment. If hired, employee will be in an “at-will position” and the Company reserves the right to modify base salary (as well as any other discretionary payment or compensation program) at any time, including for reasons related to individual performance, Company or individual department/team performance, and market factors.

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>

Join our Novartis Network: Not the right Novartis role for you? Sign up to our talent community to stay connected and learn about suitable career opportunities as soon as they come up: <https://talentnetwork.novartis.com/network>

Benefits and Rewards: Read our handbook to learn about all the ways we'll help you thrive personally and professionally: <https://www.novartis.com/careers/benefits-rewards>

#### EEO Statement:

The Novartis Group of Companies are Equal Opportunity Employers. We do not discriminate in recruitment, hiring, training, promotion or other employment practices for reasons of race, color, religion, sex, national origin, age, sexual orientation, gender identity or expression, marital or veteran status, disability, or any other legally protected status.

## Accessibility & Reasonable Accommodations

The Novartis Group of Companies are committed to working with and providing reasonable accommodation to individuals with disabilities. If, because of a medical condition or disability, you need a reasonable accommodation for any part of the application process, or to perform the essential functions of a position, please send an e-mail to [us.reasonableaccommodations@novartis.com](mailto:us.reasonableaccommodations@novartis.com) or call +1(877)395-2339 and let us know the nature of your request and your contact information. Please include the job requisition number in your message.

部门

Development

Business Unit

Universal Hierarchy Node

地点

USA

状态

New Jersey

站点

East Hanover

Company / Legal Entity

U014 (FCRS = US014) Novartis Pharmaceuticals Corporation

Functional Area

Research & Development

Job Type

Full time

Employment Type

Regular

Shift Work

No

[Apply to Job](#)



Job ID  
REQ-10044302

Senior Expert Data Science/Associate Director Data Science

[Apply to Job](#)

---

Source URL:

<https://www.novartis.com.cn/careers/career-search/job/details/req-10044302-senior-expert-data->

scienceassociate-director-data-science

List of links present in page

1. <https://www.novartis.com/about/strategy/people-and-culture>
2. <https://talentnetwork.novartis.com/network>
3. <https://www.novartis.com/careers/benefits-rewards>
4. <mailto:us.reasonableaccommodations@novartis.com>
5. <https://novartis.wd3.myworkdayjobs.com/en-US/NovartisCareers/job/East-Hanover/Senior-Expert-Data-Science-Associate-Director-Data-ScienceREQ-10044302-1>
6. <https://novartis.wd3.myworkdayjobs.com/en-US/NovartisCareers/job/East-Hanover/Senior-Expert-Data-Science-Associate-Director-Data-ScienceREQ-10044302-1>