

Senior Expert Data Science

Job ID

REQ-10086795

Sep 02, 2026

LOC_US

About the Role

#LI-Hybrid

Location: East Hanover, New Jersey, United States

This hybrid position will be located at the East Hanover, NJ site with the expectation of being in the office 12 days per month.

Key Responsibilities

- Partner with scientific and cross-functional teams to frame critical manufacturing, assay and product-understanding questions.
- Apply statistical, machine learning and multivariate methods to complex bioprocess, analytical and experimental datasets.
- Deliver robust analyses supporting process characterisation, monitoring, comparability, investigations and control strategy development.
- Build pipelines that ingest, clean, transform and integrate data from multiple sources.
- Develop curated datasets, models and analytical products for repeatable analysis, visualisation and reporting.
- Create clear dashboards, reports and presentations for technical and non-technical audiences.
- Lead data science projects from problem definition through delivery, managing scope, milestones, risks and stakeholders.
- Guide colleagues on reproducible analytical practices while contributing to an inclusive, scientifically rigorous team culture.

Essential Requirements

- Bachelor's degree with seven or more years, master's degree with five or more years, or doctorate with two or more years of relevant experience.
- Experience applying data science, statistics, machine learning or advanced analytics to complex scientific, engineering or manufacturing problems.
- Proficiency with either Python or R.
- Knowledge of regression, hypothesis testing, experimental design, multivariate analysis and predictive modelling.
- Ability to translate ambiguous scientific or business questions into structured, reproducible and well-documented analyses.
- Clear communication and effective collaboration with technical and non-technical stakeholders in a cross-functional environment.

Desirable Requirements

- Knowledge of bioprocess engineering, Chemistry, Manufacturing and Controls development, pharmaceutical manufacturing or analytical development.
- Experience creating data pipelines, interactive dashboards or analytical applications in a regulated biopharmaceutical environment.
- Experience with process monitoring, process characterization, assay analytics, comparability assessments, control

strategy support, or manufacturing investigation analytics.

- Experience with data tools commonly used in biopharmaceutical development and manufacturing, such as JMP/JSL, SAS, or electronic laboratory/manufacturing data systems.
- Ability to influence without authority, drive alignment across stakeholders, and deliver practical analytical solutions in complex organizational settings.

Compensation and Benefits

The salary for this position is expected to range from \$138,600 to \$257,400 USD per year.

The final salary offered is determined based on factors including relevant skills and experience and, upon joining Novartis, will be reviewed periodically. Novartis may change the published salary range based on company and market factors.

Compensation includes a performance-based cash incentive and, depending on the role level, eligibility for consideration for annual equity awards.

Eligible United States-based employees receive a comprehensive benefits package including health, life and disability benefits, a 401(k) with company contribution and match, and a generous time-off package.

Learn more about life at Novartis, including our culture, rewards and benefits [Novartis Life Handbook](#)

Role Requirements

Division

DIV_GD

Business Unit

Development

Location

LOC_US

Site

East Hanover

Company / Legal Entity

U014 (FCRS = US014) Novartis Pharmaceuticals Corporation

Functional Area

FCT_DD

Job Type

Full time

Employment Type

Regular

Shift Work

No

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