

Senior Expert II, Data Science, Modeling & Simulation

Job ID
REQ-10064991

10月 16, 2025

USA

摘要

#LI-Hybrid

Internal Title: Senior Expert II, Data Scientist

This position will be located at our Cambridge, MA site and will not have the ability to be located remotely.

200! This is the number of experimental data generated every single day in the Pharmacokinetic Sciences (PKS) department at Novartis Biomedical Research on drug discovery projects. We need your expertise, experience, and unwavering passion to help us leverage this wealth of information for decision making and shape the future of medicine.

As a Senior Expert II, Data Science, you will join our Modeling & Simulation Data Science team in the Translational Medicine Unit and help us to unleash the power of data science for drug discovery. You will bring your curious, innovative, and collaborative mindset to effectively harness the absorption, distribution, metabolism, excretion (ADME) and pharmacokinetics (PK) / pharmacodynamics (PD) data generated within our department and master the use of our in-house applications and state-of-

the-art machine learning (ML) methods and statistical techniques to accelerate lead optimization. Our group is growing, and we hope you will join our dynamic, enthusiastic and forward-thinking team!

About the Role

Key Responsibilities:

- Act as the M&S Data Science representative on drug discovery and lead optimization programs by collaboratively contributing to project team discussions, using dry- and wet-lab data to provide scientific and strategic input to guide decisions such as compound progression and in vivo study prioritization
- Master and advocate the use of in silico models and in-house tools, applications and data to accelerate and streamline decision making
- Apply data mining to understand relationships between structure and molecular properties for programs involving small molecules, peptides, RNAs
- Identify opportunities to create custom, project- or modality-specific in silico models and data strategy, and contribute to their development and implementation
- Proactively seek opportunities to increase the impact and awareness of M&S Data Science through clear and concise communications with internal and external audiences or various expertise
- Monitor and stay up to date on developments within the field of AI/ML applied to ADME and PK/PD, and data science methods applied to drug discovery

Minimum Requirements:

- Advanced degree in life sciences with multidisciplinary background (cheminformatics, bioinformatics, biomedical engineering, AI/ML in drug discovery or life sciences, data science, computational biology, computational chemistry or related field)
- PhD with a minimum of 3-4 years or MSc with 7-8 plus years of relevant work experience with deep knowledge on drug discovery and development processes
- Experience in the application of (reproducible) data science methods, tools and practices to drug discovery
- Strong understanding of statistics, machine learning and deep learning
- Demonstrated knowledge of data visualization and exploratory analysis
- Solid skills in programming languages, i.e. Python and R, including software development practices such as version control, testing, documentation, etc.
- Knowledge of machine learning/deep learning libraries such as scikit-learn, keras or pytorch
- Excellent communication skills and ability to translate analytical concepts for diverse audience and stakeholders (English is our primary language)

Desirable Requirements:

- Expertise with discovery-stage PK modeling for small molecule compounds (e.g., relating ADME properties to in vivo PK; scaling of preclinical PK to human) is a plus
- Experience with generative algorithms and explainable AI

The salary for this position is expected to range between \$132,300 and \$245,700 per year.

The final salary offered is determined based on factors like, but not limited to, 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.

Your compensation will include a performance-based cash incentive and, depending on the level of the role, eligibility to be considered for annual equity awards.

US-based eligible employees will receive a comprehensive benefits package that includes health, life and disability benefits, a 401(k) with company contribution and match, and a variety of other benefits. In addition, employees are eligible for a generous time off package including vacation, personal days, holidays and other leaves.

To learn more about the culture, rewards and benefits we offer our people click [here](#).

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>

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部门

Biomedical Research

Business Unit

Universal Hierarchy Node

地点

USA

状态

Massachusetts

站点

Cambridge (USA)

Company / Legal Entity

U175 (FCRS = US175) Novartis Institutes for BioMedical Research, Inc.

Functional Area

Data and Digital

Job Type

Full time

Employment Type

Regular

Shift Work

No

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