

Expert II Data Science

Job ID
REQ-10056380
Jun 30, 2025
USA

Summary

Internal Title: Expert II Data Science

This position will be located at the San Diego site and will not have the ability to be located remotely.

Job Description Summary

We are seeking a highly motivated, passionate Senior Expert I Data Science to join the data science team of Biologics Research Center (BRC) in San Diego, CA. BRC builds the biologics pipeline in collaboration with Biomedical Research Disease Areas via a breadth of technologies for discovery of antibody, protein, gene therapy and RNA-based therapeutics.

The Senior Expert, Data Science must possess a strong background in Python programming and data analysis skills, have experience working with large-scale datasets using Linux, and demonstrate a thorough understanding of machine learning theory. It is essential to be self-motivated and committed to continuously learning about the latest advancements in the field of data science, given its rapid technological evolution. Curiosity to understand the “why” rather than merely addressing the “how” is crucial for success in this role. The ideal candidate must be an independent researcher, proficient in reviewing existing literature, sourcing solutions online, and devising innovative solutions as required.

Novartis offers a unique environment to apply data science methodologies to large biomedical datasets, enhancing the discovery of new medicines.

About the Role

Key Responsibilities:

- Collaborate with scientists and bioinformaticians to develop next generation ML/AI models for potency prediction and chemistry optimization using internal and public in vitro and in vivo siRNA datasets.
- Identify, assess, and implement novel algorithms and methodologies from publications to continuously enhance the data science strategy for AI-enabled siRNA design and delivery.
- Effectively collaborate with biologists in data interpretation, visualization, and communication of results
- Contribute to BRC's AI protein design initiative through AI model evaluation, adoption, integration, and automation.
- Collaborate with other scientists on developing computational solutions to address ad hoc data science challenges.

Essential Requirements:

- Educational Background: Ph.D Bioinformatics, Computational Biology, Computer Science (recent Ph.D. welcome to apply) OR MS degree in bioinformatics, computational biology, computer science, structural biology or a related field with 4 years of relevant industry research experience

- Experience in machine learning modeling
- Excellent programming skills in Python, with Linux as the operating platform, and familiarity with high-performance clusters.
- Clear understanding of basic concepts in statistics.
- Accurate understanding of machine learning and deep learning concepts.
- Previous experience with machine learning applications.
- Desirable knowledge in deep learning areas, including CNN, GNN, transformers, and language models.
- Adequate biological knowledge to facilitate effective communication with scientists.
- Strong communication and interpersonal skills are essential for success in this role.

Desirable Requirements:

- Experience with RNAi therapeutics and siRNA design is preferred.

Novartis Compensation and Benefit Summary: *The salary for this position is expected to be \$103,600-\$192,400*

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.

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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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 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.

Division

Biomedical Research

Business Unit

Pharma Research

Location

USA

State

California

Site

San Diego (California)

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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