NOVARTIS

Bioinformatician / Data Scientist / Computational Biologist focused on RNA Therapeutics

Job ID
REQ-10078072
May 26, 2026
LOC_US

About the Role

Internal job title: Senior Expert I/II, Data Science

Location: Cambridge, MA, onsite #LI-onsite

One of the key responsibilities of the successful candidate is to provide computational, bioinformatic, and statistical support for research and early discovery of RNA therapeutics and RNA platform innovation. You work in a collaborative and multi-disciplinary environment by translating projects' needs into bioinformatics solutions; you identify computational needs and influence the introduction and the design of new/state-of-the-art analysis techniques and tools to leverage the use of bioinformatics in the RNA focus area.

Your Key Responsibilities:

- Provide bioinformatics support to xRNA pipeline and technology projects by consistently collecting, analyzing, integrating in-silico parameters, screening and omics data to draw relevant and innovative conclusions
- Independently design, plan, execute, and document complex data analysis, then interpret, summarize and report findings to help drive decisions and set priorities
- Follow latest advances in the field, raise awareness, and influence the introduction of novel and state-of-the-art computational techniques
- Collaborate in a matrix environment, working with scientists and teams in different areas to address projects' specific needs and quickly adapt to new technologies and changing needs
- Develop user-friendly applications to make RNA data accessible to bench scientists for broader and repeated use
- Communicate data and analyses to broad scientific audience, technical and non-technical team members and colleagues
- Independently identify and lead, or support, the development of innovative bioinformatics solutions in a matrix environment to answer scientific questions with an impact on the development of the next-generation xRNA therapeutics biology and platform.

Essential Requirements:

- PhD degree in Bioinformatics, Computational Biology, Cheminformatics, or a closely related discipline, along with a minimum of two years of post-graduate experience, or an MS degree with a minimum of 6 years of relevant work experience, preferably in industry.
- Demonstrated experience working with next-generation sequencing data (Ilumina short reads and/or PacBio/Oxford Nanopore long reads), its commonly used analysis tools, and ability to develop new pipelines and workflows based on business needs
- Strong domain knowledge in molecular biology, computational genomics and transcription gene regulation and/or post-transcription gene regulation. Knowledge and research experience in RNA biology. Experience in oligonucleotide therapeutics discovery and/or gene therapy is highly desired
- Development and application of machine learning algorithms for predictive modeling
- Solid skills in programming languages, i.e. Python and R, and scientific computing with Unix / high-performance computing environment, including software development practices as version control, testing, documentation, etc
- Strong communication skills (oral and written), ability to multi-task, and to communicate own results also to collaborators with different expertise

- Experience in integrating, analyzing, visualizing data from different -omics sources, high throughput screening and ability to troubleshoot critical issues or problems, determine causes and possible solutions
- Ability to monitor and stay up to date on developments within the field of sequencing and genomics to actively propose improvements and innovation in current workflows

Desired Requirements:

- Knowledge in oligonucleotide chemistry and RNA structure modeling
- Experience in lab automation and data management

The salary for this position is expected to range between $126,000 and $234,000 USD annually for Senior Expert I, and $138,600 and $257,400 USD annually for Senior Expert II. 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.

Role Requirements

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

Benefits and Rewards: Learn about all the ways we'll help you thrive personally and professionally.
Read our handbook (PDF 30 MB)

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