

# Vice President / Global Head, Oncology Data Science

Job ID  
REQ-10011010  
Jul 02, 2024  
Switzerland

## Summary

Data Scientists are core to bringing medicines to patients; they drive, support, and sustain the portfolio from the earliest stages of biological discovery to first in human studies and beyond. We are looking for an exceptional computational biologist with oncology expertise to lead our global team of data scientists within the Novartis Biomedical Research Oncology Disease Area.

## About the Role

### Key Responsibilities:

- Driving high-caliber, interdisciplinary research grounded in computational biology, applying a deep understanding of early biology/target discovery, drug discovery, biomarker discovery and translational investigation as well as an understanding of the computational and data-management infrastructure required to support these programs.
- Interfacing with all stages of drug discovery, driving insights into target discovery, mechanism of action, biomarker discovery, back translation, and clinical trial support and analysis, contributing directly to hypothesis discovery as well as hypothesis testing across Oncology.
- Leader, thought-partner and collaborator to the global Oncology organization, while driving and implementing a forward-looking vision for Artificial Intelligence/Machine Learning (AI/ML), guiding external partnerships and integrating with the broader Novartis Research Informatics communities.
- Serve as a member of the Oncology Disease Area leadership team as well as the Oncology Disease Area Decision Board contributing to our overall scientific strategy and mission.
- Represent oncology on the Biomedical Research Computational Science Council (CSC - a group advancing the interests and impact of all data science capabilities across BR).
- Build, implement and manage a cutting-edge and impactful portfolio of AI/ML related programs with Oncology target and drug discovery project teams and drug discovery platforms.
- Position AI-aided drug discovery contributions to deliver and support progress of the portfolio, enable new kinds of therapeutic discoveries, shorten cycle times, and increase efficiency.
- Lead, develop and inspire a global team of Oncology DS Experts based in Basel, Cambridge and San Diego.

- Identify, recommend, and evaluate external opportunities for strategic AI collaborations and engage in and/or lead resulting cross-functional, global collaborations.
- Act as a mentor to Data Science and AI/ML experts.
- Lead or contribute to key cross-divisional strategic data and digital projects and initiatives

This position will be located in Basel, Switzerland and will require 10-15% travel as defined by the business (domestic and/ or international).

**Essential Requirements:**

- Minimum of a University Degree with a PhD or MD equivalent in computer science, data science, biology, chemistry or medicine.
- People management experience.
- Deep understanding in oncology of early biology/target discovery, drug discovery, biomarker discovery and translational investigation.
- Experience in establishing and completing an organizationally-aligned strategy for data management, scientific focus and priorities.
- Experience in applying advanced analytics in the pharma or healthcare sector, ideally in a research environment.
- Expertise in bringing advanced analytics insights and actions to a large mature organization.
- Consistent track record in achieving scientific business outcomes.
- Substantial experience leading internal and external high performing diverse teams in matrix organizations.
- Solid track record of high impact, peer reviewed publications.
- Fostering teamwork and collaboration throughout a large, distributed, multi-level, and multi-cultural organization, and building strong collaborative relationships with peer functions.
- Well-developed and inspiring leader with ability to influence senior leadership.
- Strong organizational, problem-solving and influencing skills and demonstrated track record of exceptional teamwork.
- Excellent interpersonal, communication, and presentation skills.
- Strategic thinker able to build a portfolio which enables key progress in AI/digital adoption and related productivity and pipeline gains.
- Recognized internally and externally by key stakeholders; in depth understanding of external environment and trends.
- Ability to execute and prioritize well in a complex matrixed environment.
- Ability to manage to financial, operational, compliance and regulatory guidelines.

**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>

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Division

Biomedical Research

Business Unit

Pharma Research

Location

Switzerland

Site

Basel (City)

Company / Legal Entity

C028 (FCRS = CH028) Novartis Pharma AG

Functional Area

Data Science

Job Type

Full time

Employment Type

Regular

Shift Work

No

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