

# Director of Applied AI Research | Data Science (Drug Discovery)

Job ID  
REQ-10026102  
Jan 28, 2025  
Switzerland

## Summary

Director of Applied AI Research | Data Science (Drug Discovery)

The AI & Computational Science (AICS) is the dedicated AI team at Novartis Biomedical Research innovating drug discovery. We aim to accelerate discoveries of transformative medicines for patients worldwide. AI & Computational Science (AICS) is seeking a highly motivated and experienced incoming leader in the domain of AI/Machine Learning for Drug Discovery to push the frontier in drug discovery. At AI & Computational Sciences (AICS), you will take on a leadership role at the intersection of science R&D and real-world impact.

## About the Role

### Key responsibilities

- Have a deep and broad understanding of **AI/machine learning (ML) methods**
- Have a deep understanding of **drug discovery** and relevant AI/ML methods for in-silico/3D **molecule and protein design**, retro/synthesis, molecular dynamics, quantum chemistry...etc.
- Lead efforts in AICS surrounding **Generative Chemistry**
- Take a hands-on role and deliver on highly visible **multiple projects**
- Serve as an ambassador for AI & Data Sciences at Novartis by presenting and publishing articles
- Actively build and lead engagements with academia, technology, and industry partners (e.g., **Microsoft Research**)
- Keep ahead of latest developments in the field and mentor associates
- Be a part of a truly unique organization with an inter-disciplinary team made up of highly accomplished scientists who are **curious**, love to **learn**, and push the **AI** frontier in drug discovery

### Role Requirements

- An advanced degree (master's or doctoral) in a quantitative field including but not limited to Computer Science, Applied Mathematics, Astro/Physics, Computational Chemistry, all relevant engineering and science disciplines
- 9+ years of relevant thought leadership/publication track record in machine learning applications and AI/ML methods
- 12+ years of experience in end-to-end analysis for large scale data sets
- Cross-industry experience highly preferred and previous experience in pharma, biotech, or healthcare desired.

*Novartis is committed to building an outstanding, inclusive work environment and diverse teams representative of the patients and communities we serve.*

**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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**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>

Division

Biomedical Research

Business Unit

Pharma Research

Location

Switzerland

Site

Basel (City)

Company / Legal Entity

C028 (FCRS = CH028) Novartis Pharma AG

Functional Area

Data and Digital

Job Type

Full time

Employment Type

Regular

Shift Work

No

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