

# Principal Data Scientist (Image and Vision AI Researcher)

Job ID  
REQ-10039604  
Feb 11, 2025  
Suiza

## Resumen

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 "Principal AI researcher" in the domain of Image/Vision to push the frontier in Life Sciences and drug discovery. At AI & Computational Sciences (AICS), you will take on a senior technical leadership role at the intersection of science R&D and real-world impact.

## About the Role

### Key responsibilities

- Lead AI research projects independently, focusing on imaging and vision applications within pharmaceutical research and development using scientific, rigorous, and reproducible methodology
- Develop and implement state-of-the-art AI algorithms for image processing, analysis, segmentation, and interpretation, focusing on data modalities such as MRI, histopathology, echocardiograms, lab animal video data or other image modalities used in biological research.
- Collaborate with other AI specialists, data architects, software engineers, business analysts, user interface designers within RX on products in the Image/Vision domain
- Act as an Imaging and data science subject matter expert, to help commodify AI and data analytics expertise and assets into impactful analysis workflows and software products, and to help make our research data FAIR
- Engage with diverse stakeholders in clinical as well as non-clinical settings
- Serve as an ambassador for AI/Data Science by presenting and publishing articles.
- Build a bridge between academia, technology, and industry partners.
- Keep ahead of latest developments in the field and mentor associates.
- Be a part of a truly unique organization, work with an inter-disciplinary team of highly accomplished scientists and push the **AI** frontiers for disease understanding and drug discovery.

### Role Requirements

- Ph.D. in Computer Science, AI, Machine Learning, or a related field with a focus on imaging and vision applications.
- Minimum of 5 years of experience in AI research, specifically in imaging and vision applications.
- Applied knowledge of image/vision data modalities used in biological research or clinical settings
- Minimum of 4 years of relevant publication track record in machine learning applications and AI/ML

methods

- Proven experience in leading AI research projects independently.
- Strong understanding of advanced machine learning algorithms and AI systems.
- Extensive experience in using AI for image analysis, particularly in a pharmaceutical setting.
- Proficient in programming in AI platforms such as TensorFlow, PyTorch, or Keras.
- Strong ability to communicate technical concepts to a variety of audiences, including scientists, engineers, and non-technical stakeholders.
- Familiarity with pharmaceutical research processes and requirements.
- Strong problem-solving skills and the ability to think creatively and innovatively.

**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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División

Biomedical Research

Business Unit

Pharma Research

Ubicación

Suiza

Sitio

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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