

# Senior Expert Data Science / Imaging

Job ID  
REQ-10021623  
Oct 04, 2024  
Switzerland

## Summary

Develop and validate image analysis algorithms to characterize cellular phenotypes and quantitate molecular targets in high-throughput and high-content imaging.

- Design and implement algorithms to refine image quality and robustly isolate and extract desired features.
- Research and implement novel image and data processing technologies to create efficient and reusable solutions.
- Communicate and present results to a diverse audience of computational and experimental scientists.
- Facility with reproducible research practices and data provenance

## About the Role

### Requirements:

- PhD/MS in computer science, biomedical image computing, computational imaging, or a related quantitative field, with 5+ years of relevant experience in industry or academia.
- Strong programming and data analysis skills in Python.
- Strong background in computer vision or computational imaging.
- Comfortable working in a Linux HPC environment and skilled in data-parallel processing.
- Solid understanding of machine and deep learning technologies.
- Demonstrated background in developing innovative approaches to solve image analysis problems.
- Strategic ability to identify and select problems where techniques developed in ML/AI can have a significant impact.
- Experienced in strategically defining and assessing benchmarking and evaluation approaches for ML/AI algorithms
- Enjoy working in a collaborative, multidisciplinary environment and possess a strong willingness to learn from others' expertise in drug discovery.
- Excellent communication and interpersonal skills to effectively interact with a diverse group of scientists and

technical staff.

- Self-motivated and capable of working in a team environment.

**Desirable:**

- Working knowledge of imaging platforms across a range of modalities.
- Skilled in implementing machine/deep learning techniques to solve scientific or engineering problems in the field of life sciences, with a focus on fine-tuning foundational models using major deep learning frameworks (e.g., PyTorch, TensorFlow, JAX) or high-level libraries (e.g., Hugging Face, Lightning).
- Demonstrated record of collaborative software development, especially in distributed teams.
- Experience with cloud-based applications or cloud computing on AWS and Azure

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change patients' lives. Ready to create a brighter future together?

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

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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 and Digital

Job Type

Full time

Employment Type

Regular

Shift Work

No

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