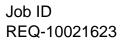# NOVARTIS

Senior Expert Data Science / Imaging

Job ID
REQ-10021623

11 01, 2024

Switzerland

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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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:

Read our handbook to learn about all the ways we'll help you thrive personally and professionally:
https://www.novartis.com/careers/benefits-rewards

Commitment to Diversity and Inclusion / EEO:

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

Accessibility and accommodation:

Novartis is committed to working with and providing reasonable accommodation to all individuals. If, because of a medical condition or disability, you need a reasonable accommodation for any part of the recruitment process, or in order to receive more detailed information about the essential functions of a position, please send an e-mail to inclusion.switzerland@novartis.com and let us know the nature of your request and your contact information. Please include the job requisition number in your message.

Join our Novartis Network: (Use provided wording - do not change)

If this role is not suitable to your experience or career goals but you wish to stay connected to hear more about Novartis and our career opportunities, join the Novartis Network here:
https://talentnetwork.novartis.com/network

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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Biomedical Research

Business Unit
Pharma Research

Switzerland

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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