

Imaging Data Scientist - Diseases of Aging and Regenerative medicine (80-100%*)

Job ID
REQ-10044060

4月 17, 2025

Switzerland

摘要

Location: Basel, Switzerland
Full time, onsite, #LI-Onsite

The Disease of Aging and Regenerative medicine group is seeking a dedicated, creative, and skilled cellular imaging data scientist to join our hybrid translational and data science team.

The candidate will have the opportunity to join our dynamic and agile, hybrid team combining both wet lab and dry lab to drive the collaborative discovery and validation of therapeutic targets, biomarkers and new medicines for diseases of aging.

About the Role

You will drive the pre-clinical exploration, validation and implementation of high content cellular imaging-based phenotypes and develop algorithms and pipelines to enable the impactful use of complex cellular assays for target ID and validation.

As a member of the Biomedical Research data science community, you will also benefit from a >300 people global community with extensive know how and resources in compute, data analysis, data engineering and AI/ML.

In this role, you will:

- Develop, validate and implement image-processing and analysis workflows and algorithms to enable complex cellular assay development, characterization and readouts.
- Based on your assessment of the image processing and analysis needs of microscopy-based projects, implement novel image and data processing technologies to design efficient and reusable solutions and pipelines including use of generative AI
- Communicate results to a diverse audience of computational and experimental scientists and suggest next experimental and in silico next steps
- Work at the interface of high content imaging and high-resolution molecular data modalities to drive innovative target ID and validation.
- Be an AI/ML and data steward and educate and train colleagues in the field of AI/ML for computer vision and other biomedical applications

Minimum Requirements: PhD/MS in computer science, biomedical image computing, computational imaging, or a related quantitative field

Work Experience:

Minimum of 2 years of relevant experience in industry or academia (e.g. Postdoctoral Research).

Skills:

- Strong programming and data analysis skills in Python and R and practical experience with at least one major deep learning framework (PyTorch, TensorFlow).
- Strong background in computer vision or computational imaging applied to cellular biology and demonstrated ability to innovate in that space.
- Skilled in parallel data processing, working in both HPC environments and cloud computing platforms.
- Proven track record in applying image analysis software such as CellProfiler, ImageJ/FIJI, Napari, ilastik or Imaris.
- Experience in statistical modeling, machine learning, data visualization, reproducible research practices.
- High learning agility, and ability to thrive in a collaborative, multidisciplinary environment.
- Excellent communication skills, demonstrated ability to educate and mentor in the field of data science and AI.

Desirable

- You have experience in analyzing images from a diverse range of microscopy modalities, including high-content screening, electron microscopy, light-sheet microscopy and confocal microscopy
- Drug discovery experience, ideally in target ID and lead finding.
- Experience with omics (e.g spatial transcriptomics) and ML model deployments/MLOps

*Restrictions on working flexibility may apply to this position and can be discussed at interview as required

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.

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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部门

Biomedical Research

Business Unit

Pharma Research

地点

Switzerland

站点

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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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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