Data science internship (Multiplexed image analysis)

Job ID
REQ-10037565

1 30, 2025

Switzerland

The Immunology Data Science team is looking for a recent postgraduate to complete an internship establishing a universal multiplexed imaging and spatial transcriptomics analysis pipeline for the discovery of immune-related disease mechanisms and novel targets.

About the Role

The Immunology (IMM) Disease Area within Biomedical Research (BR) at Novartis in Basel is seeking a highly motivated postgraduate to join our Data Science team for an internship to establish and benchmark computational tools for the analysis of multiplexed imaging and other tissue profiling technologies including spatial transcriptomics.

The IMM Data Science team collaborates with project teams across IMM on a variety of clinical and preclinical drug discovery programs targeting autoimmune diseases and chronic inflammation. With

the advancement of multiplexed imaging and spatial transcriptomics technologies, we are now expanding our internal pipelines to provide a flexible and scalable solution to analyze spatial tissue data across projects.

Desired start date: ASAP
Duration: 6 months

Your responsibilities will include:

- Establish and evaluate existing computational tools to handle and analyze spatial tissue data
- Compare existing analysis approaches in terms of usability, flexibility and scalability
- Apply the selected tools to internal data supporting the identification of disease-relevant tissue structures
- Present the results internally within IMM and the broader tissue profiling community at BR

Essential Requirements:

- Recent master's degree (MSc) in bioinformatics, computational biology, data science or a related field
- Excellent skills in data handling and analysis using Python; Experience with Unix command line and pipelining solutions (e.g. snakemake/nextflow)
- Ability to work independently and as part of an interdisciplinary team
- English: proficient in oral and written

Desirable Requirements:

- Previous experience with analyzing low- or highplexed imaging data; Experience analyzing spatial transcriptomics and applying spatial statistics is a plus
- Good understanding of biology and immunology

Onsite or Hybrid? #Li-Onsite

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diversity.inclusionch@novartis.com and let us know the nature of your request and your

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Biomedical Research

Business Unit
Pharma Research

Switzerland

Basel (City)

Company / Legal Entity
CO28 (FCRS = CHO28) Novartis Pharma AG

Functional Area
Others

Job Type
Full time

Employment Type
Early Career (Fixed Term)

Shift Work
No

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