

Expert - Data Science Bioinformatician (80-100&*)

Job ID
REQ-10045989

4月 10, 2025

Switzerland

摘要

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

The Biologics Research Center (BRC) is looking for a bioinformatician, a data scientist, or a computational biologist to join the Bioinformatics and Biotherapeutics modeling team.

The team collaborates closely with experimental scientists to analyze different types of omics data sets, define and develop data analysis pipelines and tools to support our biologics programs, and to develop technology platforms in the cell and gene therapy and xRNA space.

About the Role

One of the key responsibilities of the successful candidate is to provide computational, bioinformatic, and statistical support for research and early development biologics and technology projects. You will

work in a collaborative and multi-disciplinary environment by translating projects' needs into bioinformatics solutions; you identify computational needs and influence the introduction and the design of new/state-of-the-art analysis techniques and tools to leverage the use of bioinformatics in the biologics focus area.

Your Key Responsibilities:

Your responsibilities include, but are not limited to:

- Provide bioinformatics support to biologics and technology projects by consistently collecting, analyzing and integrating omics and screen data to draw relevant and innovative conclusions
- Independently design, plan, execute, and document complex omics data analysis, then interpret, summarize and report findings to help drive decisions and set priorities
- Follow the latest advances in the field, raise awareness, and influence the introduction of novel and state-of-the-art computational techniques
- Collaborate in a matrix environment, working with scientists and teams in different areas to address projects' specific needs and quickly adapt to new technologies and changing needs
- Develop user-friendly applications to make genomic data accessible to bench scientists for broader and repeated use
- Communicate data and analyses to broad scientific audience, technical and non-technical team members and colleagues
- Independently identify and lead, or support, the development of innovative bioinformatics solutions in a matrix environment to answer scientific questions with an impact on the development of the next-generation xRNA therapeutics biology and platform.

Role Requirements:

Essential Requirements:

- Higher level degree, e.g. Masters/MSc degree, or recent PhD graduate (graduation within last 3-6 months), in Bioinformatics, Computational Biology, Cheminformatics, or related field, or an MS degree with 4 years of relevant industry experience with deep knowledge on drug discovery and development processes, including experience working closely with experimental scientists in developing predictive models and data analysis pipelines.
- Demonstrated experience working with next-generation sequencing data (Illumina short reads and/or PacBio/Oxford Nanopore long reads), its commonly used analysis tools, and ability to develop new pipelines and workflows based on business needs
- Strong domain knowledge in computational genomics, gene regulation.
- Knowledge and research experience in RNA Biology. Oligonucleotide-based therapies and/or gene therapy would be preferred
- Solid skills in programming languages, i.e. Python and R, and high-performance computing environment, including software development practices as version control, testing, documentation, etc
- Strong communication skills (oral and written), ability to multi-task, and to communicate own results to collaborators with different expertise
- Experience in integrating, analyzing, visualizing data from different -omics sources, high throughput screening and ability to troubleshoot critical issues or problems, determine causes and possible solutions

- Ability to monitor and stay up to date on developments within the field of sequencing and genomics to actively propose improvements and innovation in current workflows

Desired Requirements:

- Development and application of machine learning algorithms for predictive modeling
- Experience in lab automation and data management

*Restrictions on flexible working and reduced working time may apply and can be discussed at interview stage if 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.

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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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