NOVARTIS

Data Science Innovation Fellow, Structural Bioinformatics

Job ID
REQ-10010397
Jul 09, 2024
Switzerland

Summary

We are thrilled to open applications for our Data Science Innovation Fellowship. This applied 3-year research program is set to change the way we approach drug discovery, offering fellows a unique chance to train in data science and AI for biomedical research. As a talented fellow, you will learn to apply your computational skills to make a difference for patients and reimagine medicine at Novartis. Drug hunting is a team sport, and you will gain experience in DS&AI for drug discovery as part of a multi-disciplinary team in Biomedical Research. You will drive innovation by deploying cutting-edge data approaches in collaboration with a vibrant and diverse community of over 300 data scientists globally. The program provides a unique platform to work on real-world, biomedical data at scale, rarely accessible in academia. Under the guidance of experienced mentors, you'll embark on a journey of professional growth, benefiting from a tailored training program with built-in time for a mini-sabbatical in other areas of Novartis and for attending conferences/workshops. Biomedical Research is the home of a vibrant postdoctoral community connected through science and events supporting the professional growth of our fellows, including monthly seminars and an annual Research Day Symposium. Seize this chance to be at the forefront of Data science and AI and shape the future of drug discovery! As a key member of an interdisciplinary team with expertise in computational and data science, AI/ML methodology, protein science, high throughput screening as well as modeling/computer-aided drug design, you will leverage state-of-the-art AI methodology and unique internal datasets to model protein-protein and protein-ligand interactions and drive drug discovery efforts. Start date: Autumn 2024

About the Role

Key responsibilities

As a Data Science Innovation Fellow, you will:

- Leverage large, proprietary data sets to fine-tune innovative AI models for protein-ligand structure predictions.
- Design and conduct in silico experiments to inform wet lab experiments and integrate generated data to optimize prediction models.
- Collaborate with cross-functional teams and apply the latest structural AI models to real world drug discovery projects.
- Explore the application of the latest structure-based AI methods to drug discovery workflows and present your findings to the scientific community at BR (Biomedical Research)

Role requirements:

- PhD in computational biology, cheminformatics, structural biology or equivalent, with extensive computational experience (PhD students in the last year of their thesis work, are eligible to apply).
- Experience in applying computational methods to protein modeling, drug discovery or small molecule design.
- Strong background in structural AI methods (e.g., Alphafold, Rosetta Fold, Openfold).
- Proficiency in Python and machine learning libraries (e.g., TensorFlow, PyTorch, Jax) in high performance computing/cloud computing environments (e.g. AWS).
- Experience with protein-ligand interaction prediction and drug discovery workflows.
- Strong publication record or other scientific achievements (i.e. awards, patents, grants).
- Excellent analytical, communication, presentation and organizational skills.
- Passion for research and boundless curiosity.

#DSIF

How to apply

Please submit your CV and cover letter by **July 29** for consideration. Please make sure to discuss in the cover letter how this training program will help you fulfill your career goals.

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 any order to receive more detailed information about 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

Join our Novartis Network: Not the right Novartis role for you? Sign up to our talent community to stay connected and learn about suitable career opportunities as soon as they come up: https://talentnetwork.novartis.com/network

Division
Biomedical Research
Business Unit
Pharma Research
Location
Switzerland
Site
Basel (City)
Company / Legal Entity
C028 (FCRS = CH028) Novartis Pharma AG
Job Type
Full time
Employment Type
Praktikant*in/Student*in (Befristet)
Shift Work

No

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