NOVARTIS

Internship for Bachelor/Master Students in BR-GDC Computational Drug Design

Job ID
REQ-10042919
März 04, 2025
Schweiz

Zusammenfassung

The CADD group at Global Discovery Chemistry in Basel, Switzerland, is seeking a Bachelor or Master student intern for a 6-month position to enhance the drug discovery pipeline using computational methods, focusing on evaluating and implementing advanced computational technologies.

About the Role

Internship for Bachelor/Master Students in Computational Drug Design

Summary

Oncology, Cardiovascular, Metabolic and Renal, Immunology and Neuroscience are the disease areas you will impact when collaborating across Biomedical Research (BR). This is the innovation engine of Novartis, focusing on powerful new technologies that have the potential to help produce therapeutic breakthroughs for patients.

About the Role

Starting date: 2025 (latest in July)

Duration: 6 months

Location: Campus Basel

Your responsibilities could include (depending on internship project)**:**

- Harness diverse structure-based and quantum-mechanical computational chemistry tools (e.g., pymol, Flare, Maestro, Turbomole, xtb)
- Set up, run, and analyze molecular dynamics simulations (e.g., Gromacs, Amber, OpenMM)
- Apply and develop machine-learning approaches and cheminformatic pipelines (e.g., python, Jupyter, rdkit)
- Critically assess results and outcomes from application of computational protocols on relevant scientific questions
- Contribute to the optimization of computational protocols, develop and write scientific code (e.g., using python, bash, etc.)

What you'll bring to the role:

- Education: Bachelor or Master student in chemistry, pharmacy, bioinformatics, or a related field
- Business-level English; oral & written
- Keen interest in computational chemistry, machine learning and programming
- Experience and enthusiasm for developing computational methods and applying them to relevant scientific questions
- Experience in analyzing results, compiling data, and writing up scientific findings
- Strong team player with a collaborative and proactive approach

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
diversity.inclusion_ch@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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Website
Basel (City)
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Others
Job Type
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