NOVARTIS

Expert Data Science I/II

Job ID
REQ-10093531
Ноя. 26, 2026
Словения

Сводка

Location: Menges, Slovenia #onsite

Role Purpose:
Our R&D unit in Mengeš is looking for a highly skilled computational scientist to join us and help us develop a diverse portfolio of biotherapeutic modalities.

As a Expert Data Science you must demonstrate a broad and in-depth understanding of protein structure prediction, molecular interactions, molecular dynamics simulations, and protein and nucleic acid structure analysis to support the design, optimization, and developability assessment of various biologics modalities covered by Novartis Biomedical Research and Development units, ranging from traditional antibodies to advanced biologics formats and mixed modalities.

We offer a stimulating work environment, ample opportunities for growth and development, and the chance to make a significant impact on the future of medicine. If you are a motivated and talented scientist with a passion for biomedical research, we invite you to apply and become a part of our dynamic team at Novartis.

Naša enota za raziskave in razvoj v Mengšu išče izjemno usposobljenega računskega znanstvenika ali znanstvenico, ki se nam bo pridružil/-a in nam pomagal/-a razvijati raznolik portfelj bioterapevtskih modalnosti.

Kot Expert Data Science morate izkazati široko in poglobljeno razumevanje napovedovanja strukture beljakovin, molekulskih interakcij, simulacij molekulske dinamike ter analize struktur beljakovin in nukleinskih kislin, da boste lahko sodelovali pri načrtovanju, optimizaciji in ocenjevanju razvojne primernost različnih modalnosti bioloških zdravil, ki jih pokrivajo enote Novartis Biomedical Research in Development, od klasičnih protiteles do naprednih bioloških formatov in mešanih modalnosti.

Ponujamo spodbudno delovno okolje, obilo priložnosti za rast in razvoj ter možnost pomembnega prispevka k prihodnosti medicine. Če ste motivirani in nadarjeni znanstvenik ali znanstvenica s strastjo do biomedicinskih raziskav, vas vabimo, da se prijavite in postanete del naše dinamične ekipe v podjetju Novartis.

About the Role

Key Responsibilities:

- Contribute to biologics discovery and innovation programs by applying computational structural approaches to support candidate design, selection, and optimization across the discovery pipeline.
- Apply, develop, and critically evaluate computational structural modelling methods, assessing their suitability, limitations, and predictive performance for specific scientific questions.
- Collaborate closely with experimental scientists, providing computational expertise and clearly communicating results, uncertainties, limitations, and recommendations to project teams and supporting the broader adoption of effective methods across the organization.
- Integrate sequence, structural, experimental, and project data to build predictive models, formulate testable hypotheses, and generate actionable design recommendations.
- Contribute to the design, implementation, and continuous improvement of reproducible bioinformatics and molecular-modelling tools and workflows for sequence and structure analysis.

Minimum Requirements - What you will bring to the role

- MSc degree in a theoretical or computational discipline, such as Applied Mathematics, Computer Science, Physics, Chemistry, Bioinformatics or a closely related quantitative field with at least 2 years of relevant work experience
- Demonstrated expertise (evidenced by peer-reviewed publications) in computational structural biology and molecular modelling
- Experience in protein structure prediction and analysis, protein–protein and protein–ligand interactions, sequence–structure analysis, and structure-based design, including hands-on molecular dynamics simulations and associated analysis methods.
- Proficiency with relevant molecular modelling and structural bioinformatics tools, such as MOE, Schrödinger, Rosetta, or comparable platforms.
- Proficiency in Python or a comparable scientific programming language, together with experience using relevant bioinformatics databases and computational tools
- Strong ability to critically analyze and interpret complex sequence, structural, simulation, and experimental data and translate the results into testable hypotheses and actionable design recommendations
- A creative and scientifically rigorous approach to developing computational strategies, addressing complex research questions, and advancing biologics discovery through innovative methods
- Excellent scientific communication and teamwork skills, with the ability to work effectively in multidisciplinary and international project teams

- Fluency in English (oral/written)

Benefits & Rewards

At Novartis, we're committed to reimagining medicine together - and rewarding the people who make it happen.

Expected Annual Base Salary Range for role: €27,160 to €50,440

The base salary offered is determined based on gender-neutral objectives, such as relevant skills, competencies and experience in accordance with the Novartis pay setting policy and upon joining Novartis will be reviewed periodically.

In addition to your base salary, you may be eligible for a performance-based bonus depending on certain performance parameters.

The rewards of being part of our team go far beyond base pay and incentives. We also offer a variety of competitive benefits in kind to help you thrive personally and professionally, such as insurance plans, retirement plans, wellbeing resources and global recognition programs. In addition, we provide flexible and hybrid working options, where possible, and minimum 14 weeks paid parental leave.

Ključne odgovornosti:

- Prispevajte k programom odkrivanja in inovacij na področju bioloških zdravil z uporabo računskih strukturnih pristopov, ki podpirajo načrtovanje, izbiro in optimizacijo kandidatov v celotnem razvojnem cevovodu odkrivanja.
- Uporabljajte, razvijajte in kritično vrednotite računske metode strukturnega modeliranja ter ocenjujte njihovo primernost, omejitve in napovedno zmogljivost za posamezna znanstvena vprašanja.
- Tesno sodelujte z eksperimentalnimi znanstveniki, zagotavljajte računsko strokovno znanje ter jasno sporočajte rezultate, negotovosti, omejitve in priporočila projektnim ekipam, s tem pa podpirajte širšo uporabo učinkovitih metod v celotni organizaciji.
- Povezujte podatke o zaporedjih, strukturah, eksperimentih in projektih za izgradnjo napovednih modelov, oblikovanje preverljivih hipotez in pripravo uporabnih priporočil za načrtovanje.
- Prispevajte k načrtovanju, izvedbi in nenehnemu izboljševanju ponovljivih bioinformatskih orodij in orodij za molekulsko modeliranje ter delovnih tokov za analizo zaporedij in struktur.

Minimalne zahteve – kaj boste prinesli na to delovno mesto

- Magisterij s teoretičnega ali računskega področja, kot so uporabna matematika, računalništvo, bioinformatika, fizika, kemija ali sorodno kvantitativno področje, z vsaj 2 letoma ustreznih delovnih izkušenj
- Dokazano strokovno znanje (izkazano z recenziranimi objavami) na področju računske strukturne biologije in molekulskega modeliranja
- Izkušnje z napovedovanjem in analizo strukture beljakovin, interakcijami beljakovina–beljakovina in beljakovina–ligand, simulacijami molekulske dinamike, analizo zaporedje–struktura ter načrtovanjem na osnovi structure, ter praktične izkušnje s simulacijami molekulske dinamike in pripadajočimi analitičnimi metodami.
- Obvladovanje ustreznih orodij za molekulsko modeliranje in strukturno bioinformatiko, kot so MOE, Schrödinger, Rosetta ali primerljive platforme.
- Obvladovanje programskega jezika Python ali primerljivega znanstvenega programskega jezika ter izkušnje z uporabo ustreznih bioinformatskih podatkovnih zbirk in računskih orodij
- Izrazita sposobnost kritične analize in interpretacije kompleksnih podatkov o zaporedjih, strukturah, simulacijah in eksperimentih ter njihovega prevajanja v preverljive hipoteze in uporabna priporočila za načrtovanje
- Ustvarjalen in znanstveno strog pristop k razvoju računskih strategij, reševanju kompleksnih raziskovalnih vprašanj in pospeševanju odkrivanja bioloških zdravil z inovativnimi metodami
- Odlične komunikacijske veščine na znanstvenem področju in sposobnost timskega dela, vključno z učinkovitim delom v multidisciplinarnih in mednarodnih projektnih ekipah
- Tekoče znanje angleščine (ustno/pisno)

Ugodnosti in nagrade V podjetju Novartis smo zavezani k skupnemu preoblikovanju medicine – in k nagrajevanju ljudi, ki to omogočajo. Predvideni razpon letne osnovne plače za to delovno mesto: Dodajte celoten primerjalni razpon v skladu s sistemom Workday, npr.: od 27,160 € do 50,440€ Ponujena osnovna plača se določi na podlagi ciljev, ki ne upoštevajo spola, kot so ustrezna znanja, kompetence in izkušnje v skladu s politiko določanja plač v podjetju Novartis, po vstopu v podjetje Novartis pa se bo redno pregledovala. Poleg osnovne plače ste lahko upravičeni do bonusa, ki temelji na uspešnosti, odvisno od določenih parametrov uspešnosti. Nagrade za sodelovanje v naši ekipi segajo daleč onkraj osnovne plače in spodbud. Ponujamo tudi vrsto konkurenčnih ugodnosti v naravi, ki vam pomagajo pri osebnem in poklicnem razvoju, kot so zavarovalni načrti, pokojninski načrti, viri za dobro počutje in globalni programi priznanj. Poleg tega zagotavljamo fleksibilne in hibridne

možnosti dela, kjer je to mogoče, ter najmanj 14 tednov plačanega starševskega dopusta.

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

Benefits and Rewards: Learn about all the ways we'll help you thrive personally and professionally.
Read our handbook (PDF 30 MB)

Primary location salary range
€27,160.00 - €50,440.00
Дивизион
Biomedical Research
Business Unit
Research
Место
Словения
Сайт
Mengeš
Company / Legal Entity
SI19 (FCRS = SI019) Novartis farmacevtska proizvodnja d.o.o.
Functional Area
Research & Development
Job Type
Full time
Employment Type
Regular
Shift Work
No

Accessibility and accommodation

Novartis is committed to working with and providing reasonable accommodation to individuals with disabilities. If, because of a medical condition or disability, you need a reasonable accommodation for any part of the recruitment process, or in order to perform the essential functions of a position, please send an e-mail to diversity.inclusion_slo@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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