Cheminformatics Data Science Group Leader

Job ID
285576BR

Position Title
Cheminformatics Data Science Group Leader

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Job Description

250! That’s the number of data scientists leading a digital revolution at the Novartis Institutes for BioMedical Research.

We are looking for a highly motivated and experienced data science leader with demonstrated vision and impact in cheminformatics and drug discovery programs. As a strategic lead, you will enable an innovative global team of in silico drug hunters in the Chemical Biology & Therapeutics Data Science (CBT DS) group at Novartis Institutes for Biochemical Research (NIBR). You will be part of a larger, innovative and global Data Science team with expertise in bioinformatics, computational biology, screening analytics, data engineering and predictive modelling, that combine expertise to gain a molecular understanding of disease etiology, to identify novel targets and chemical matter, assess preclinical model translation relevance and patient population heterogeneity. The team’s mission is
• Oversight of the strategic direction for a global data science team focused on lead discovery in early pharmaceutical research.
• Implementation and application of data workflows, informatics solutions, and machine learning approaches to impact lead discovery projects.
• Engaging as an insightful member of the CBT Data Science leadership team and member of the departmental portfolio group assessing drug candidate projects.
• Coaching and mentoring of the next generation of data science leaders.

Navigation of a complex matrix of collaborative partners.

EEO Statement

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Minimum requirements

• PhD in biology, chemistry, cheminformatics, or computational chemistry, with >10 years of experience in a drug discovery setting and experience with leading
interdisciplinary teams.
• Background in Computational Science and either Chemistry or Chemical Biology
• An understanding of the processes behind target discovery and validation, assay development, lead discovery and structure-based design
• Demonstrated ability to develop, implement, and apply project-tailored analysis workflows to answer scientific questions
• Hands-on experience with analysis of experimental results; in particular, utilization of chemical and structural information to guide experiment design and analysis
• Proven track record of cross-disciplinary collaboration and exceptional teamwork skills in a drug discovery setting
• Experience with cheminformatics (similarity searching, SAR analysis, chemogenomics data mining) and compound-protein structure modelling
• Practical experience with a scripting language (Python, R), modelling tools, and familiarity with relational databases and SQL and experience with cluster computing frameworks (Spark, AWS, HPC)
• Excellent scientific communication skills and effective data visualization skills
• Fluency in written and oral English with very strong presentation and ‘story-telling’ skills
• A publication history demonstrating a track record of innovation in cheminformatics

Desirable requirements:

• Has guided teams engineering complex chemical biology data for end-to-end enabling solutions
• Experience with advanced machine learning techniques (deep learning, generative chemistry, etc)

WHY CONSIDER NOVARTIS?

927 million. That’s how many lives our products touched in 2017. And while we’re proud of that, in this world of digital and technological transformation, we must also ask ourselves this: how can we continue to improve and extend even more people’s lives?

We believe the answers are found when curious, courageous and collaborative
people like you are empowered to ask new questions, make bolder decisions and take smarter risks.

We are Novartis. Join us and help reimagine medicine.

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