NOVARTIS

Director Oncology Data Science LMW

Job ID
REQ-10064353

12月 02, 2025

USA

摘要

About the role:

#LI:Onsite

The Oncology Data Science team in Biomedical Research supports the Oncology Disease Area with computational biology, Artificial Intelligence / Machine Learning (AI/ML), and data engineering for novel therapeutics across multiple drug modalities. As integrated scientists and engineers, we apply advanced analytics to pre-clinical and clinical projects, enabling progress in target discovery, drug development, and translational and clinical science.

We seek a Director of Data Science to lead our global team of US and Europe-based data scientists specializing in Low Molecular Weight (LMW) drug development who will guide the LMW data science team, collaborate closely with Oncology stakeholders and Biomedical Research, and introduce innovative data-driven solutions to enhance our LMW portfolio and benefit patients.

About the Role

Key Responsibilities:

- Lead and develop a global team of US and Europe-based data scientists, driving high-quality data science that is grounded in deep understanding of biology and applicable data science methodologies and approaches.
- Co-develop and execute a data science strategy to enable and enhance innovation in the LMW drug development space.
- Closely align with the Oncology Drug Development teams to represent the low molecular weight data science function and ensure effective embedding of data science in drug development teams and alignment on scientific direction.
- Regularly interface with Oncology Disease Area leaders to align priorities and to effectively deploy resources.
- Collaborate closely with the Oncology Data Science AI team and other teams such as generative chemistry teams on the development and implementation of innovative machine learning algorithms, AI models, and platforms to enable the delivery of predictive and prescriptive insights.
- Actively engage with stakeholders within partner functions, such as IT, Chemistry and Technology departments and build strong partnerships and shared projects.
- As a member of the Oncology Data Science Leadership team, contribute to Oncology Data Science overall direction and management, represent the low molecular weight portfolio as a function.
- Closely collaborate with Oncology Data Science engineering teams to ensure team adherence to data standards, data governance and data strategy and ensure the application of best practices in analytics and high standards of reproducibility in research across the team.
- Play a leading role in matrix teams such as Translational Data Science Clusters around disease areas or teams centered around key technologies such as genomics, proteomics, spatial technologies etc.
- Present and externalize work of the team in conferences, abstracts and scientific journals.

Essential Requirements:

- This position will be located at the Cambridge, MA site and will not have the ability to be located remotely. This position will require 10% travel as defined by the business (domestic and/ or international).
- Ph.D. in data science, computational biology or related fields, strong scientific mindset, with a deep understanding of biology, oncology and low molecular weight drug development process.
- 10+ years of experience in a data science role in oncology drug development.
- Excellent leadership and management skills, with 5+ years of people management experience in the data science space.
- Experience with Quality Control (QC) and data analysis for common assays, such as bulk RNA-seq, scRNA-seq and/or chromatin-based assays (ChIP-seq, ATAC-seq, Hi-C).
- Strong expertise in quantitative and computational biology approaches, general AI/machine learning and statistical modeling techniques and a proven track record of delivering data-driven insights and solutions.
- Excellent communication skills, with the ability to communicate complex data insights and

recommendations to cross-functional teams and stakeholders.
- Proven history of contributions to the scientific community in the form of papers and/or conference presentations.

Preferred Requirements:

- Experience with AI/ML approaches specific to the low molecular weight field including computational chemistry and application of generative AI in chemistry.
- Experience with cell line profiling, shRNA or CRISPR perturbation screens, high content cell imaging, proteomics or in vivo efficacy analysis.

The salary for this position is expected to range between $194,600 and $361,400 per year.

The final salary offered is determined based on factors like, but not limited to, relevant skills and experience, and upon joining Novartis will be reviewed periodically. Novartis may change the published salary range based on company and market factors.

Your compensation will include a performance-based cash incentive and, depending on the level of the role, eligibility to be considered for annual equity awards.

US-based eligible employees will receive a comprehensive benefits package that includes health, life and disability benefits, a 401(k) with company contribution and match, and a variety of other benefits. In addition, employees are eligible for a generous time off package including vacation, personal days, holidays and other leaves.

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)

EEO Statement:

The Novartis Group of Companies are Equal Opportunity Employers. We do not discriminate in recruitment, hiring, training, promotion or other employment practices for reasons of race, color, religion, sex, national origin, age, sexual orientation, gender identity or expression, marital or veteran status, disability, or any other legally protected status.

Accessibility & Reasonable Accommodations

The Novartis Group of Companies are 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 application process, or to perform the essential functions of a position, please send an e-mail to us.reasonableaccommodations@novartis.com or call +1(877)395-2339 and let us know the nature of your request and your contact information. Please include the job requisition number in your message.

部门
Biomedical Research

Business Unit
Research

地点
USA

状态
Massachusetts

站点
Cambridge (USA)

Company / Legal Entity
U175 (FCRS = US175) Novartis Institutes for BioMedical Research, Inc.

Functional Area
Data and Digital

Job Type
Full time

Employment Type
Regular

Shift Work
No

function adjustKalturaPlayer() { var deviceWidth = window.innerWidth || document.documentElement.clientWidth || document.body.clientWidth; var mediaElement = document.getElementById("kalturaplayer6982c6b16650f069062353"); var mediaContainer = mediaElement.closest('.nc-kaltura-media'); var originalWidth = "1200px"; var originalHeight = "674px"; var originalWidthValue = parseFloat(originalWidth); var originalHeightValue = parseFloat(originalHeight); var mediaType = "video"; var isResponsive = false; // Get computed styles of the container element. var parentStyles = window.getComputedStyle(mediaContainer); var finalWidth = parseFloat(parentStyles.width); if (finalWidth var config = { targetId: "kalturaplayer6982c6b16650f069062353", provider: { widgetId: "10m7rm1pm", partnerId: "2076321", uiConfId: "55802022" }, playback: { autoplay: false, autopause: false, allowMutedAutoPlay: false, loop: false }, sources: { options: {}, startTime: 0 }, plugins: { download: { disable: true }, "playkit-js-transcript":{ position: "right", // Default: bottom;(‘ left ’ , ‘ right', ‘ top ’ , 'bottom ’) to enable transcript. expandMode: "over", // Default: alongside;(‘ alongside', ‘ hidden ’ , 'over ’) expandOnFirstPlay: false, showTime: true, downloadDisabled: false, printDisabled: false, disable: true } }, ui: { showCCButton: false, settings: { showQualityMenu: true, showSpeedMenu: false }, components: { fullscreen: { disableDoubleClick: false } }, uiComponents: [{ presets: ['Playback', 'Live'], area: 'BottomBarRightControls', replaceComponent: 'Fullscreen', get: KalturaPlayer.ui.components.Remove }] } }; config.plugins.preventSeek = { preventSeekForward: false, preventSeek: false }; config.plugins.floating = { disable: true }; config.plugins.navigation = { position: "right", expandMode: "over", expandOnFirstPlay: false, visible: false }; config.plugins['playkit-js-hotspots'] = { disable: true }; config.plugins['playkit-js-moderation'] = { disable: true }; config.plugins['playkit-js-info'] = { disable: true }; config.plugins.share = { disable: true }; config.ui.uiComponents = []; config.plugins.googleTagManager = {}; config.plugins.googleTagManager.customEventsTracking = {}; config.plugins.googleTagManager.containerId = 'GTM-57RJQ5'; config.plugins.googleTagManager.customEventsTracking.custom = []; config.plugins.googleTagManager.customEventsTracking = { preset: { coreEvents: true, UIEvents: false, playlistEvents: false, castEvents: false } };

try { var kalturaPlayer = KalturaPlayer.setup(config); // Add the player to the global array. if (typeof kalturaPlayerVideos !== 'undefined') { kalturaPlayerVideos.push(kalturaPlayer); } else { var kalturaPlayerVideos = []; kalturaPlayerVideos.push(kalturaPlayer); } // Load the Player for other media. kalturaPlayer.loadMedia({entryId: "1dgfvmafo"}); setTimeout(() => { setupAutoPause(kalturaPlayerVideos); }, 500); function setupAutoPause(players) { players.forEach((currentPlayer) => { currentPlayer.addEventListener('play', () => { players.forEach((otherPlayer) => { if (otherPlayer !== currentPlayer && typeof otherPlayer.pause === 'function') { otherPlayer.pause(); } }); }); }); } } catch (e) { console.error(e.message) }

VIDEO

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