NOVARTIS

Senior Expert Data Science (Applied AI, LMW Drug Discovery)

Job ID
REQ-10079601

6月 26, 2026

USA

摘要

Job Title: Senior Expert Data Science (Applied AI, LMW Drug Discovery)
#LI-Hybrid

Primary Location: Cambridge, USA

No of positions: 2

Relocation Support: This role is based in Cambridge, USA. Novartis is unable to offer relocation support: please only apply if accessible.

Drive the future of drug discovery through cutting-edge Applied AI. In this role, you will shape how advanced machine learning and generative approaches transform low molecular weight drug discovery, accelerating the journey from data to breakthrough therapies. As a senior expert within the AI for Research (AI4R) team, you will lead high-impact initiatives, influence scientific strategy, and translate complex AI innovations into real-world outcomes–helping deliver better medicines, faster, for patients worldwide.

About the Role

Key Responsibilities

- Provide technical leadership for Applied AI initiatives in low molecular weight drug discovery
- Design and develop advanced machine learning models for molecular design and optimization
- Evaluate and benchmark state-of-the-art AI methods for drug discovery applications
- Drive innovation by identifying and implementing novel methodologies with measurable scientific impact
- Collaborate with cross-functional teams to integrate AI solutions into research workflows
- Ensure robustness, performance, and scalability of AI models through rigorous validation practices
- Translate model outputs into actionable insights for experimental and scientific decision-making
- Lead development of automated, agent-based workflows for computer-aided drug design pipelines
- Partner with engineering and product teams to successfully deploy AI solutions into production
- Communicate progress, insights, and impact to senior stakeholders and scientific leadership

Essential Requirements

- Deep curiosity and passion for biomedical science and therapeutic discovery
- At least 4 years of experience developing and deploying machine learning models and data solutions
- Strong programming expertise in Python and deep learning frameworks, with experience using version control systems
- Demonstrated expertise in generative chemistry, structure-based drug design, and molecular modeling techniques
- Experience applying artificial intelligence to molecular design, optimization, and drug discovery workflows
- Proven ability to collaborate across scientific domains and operate effectively within complex research organizations

Novartis Compensation and Benefit Summary

The salary for this position is expected to range between 1,38,600.00 - 2,57,400.00 USD Annual.

The final salary offered is determined based on factors such as relevant skills and experience and will be reviewed periodically upon joining Novartis. Novartis may update 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 for annual equity awards.

US-based eligible associates receive a comprehensive benefits package that includes health, life, and disability coverage, a 401(k) plan with company contribution and matching, and a range of additional benefits. Associates are also eligible for a generous time-off package, including vacation, personal days, holidays, and other leave options. To learn more about the culture, rewards and benefits we offer our people click here.

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
Information Technology

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

var kPlayer = KalturaPlayer55802022 || KalturaPlayer; var config = { targetId: "kalturaplayer6a3e79535ee65208552438", provider: { widgetId: "10m7rm1pm", partnerId: "2076321", uiConfId: "55802022" }, playback: { autoplay: false, autopause: false, muted: false, loop: false }, sources: { options: {}, startTime: 0 }, disableUserCache: "true", plugins: {}, sources: { options: {}, startTime: 0 }, ui: { showCCButton: false, settings: { showQualityMenu: true, showSpeedMenu: false }, components: { fullscreen: { disableDoubleClick: false } }, uiComponents: [{ presets: ['Playback', 'Live'], area: 'BottomBarRightControls', replaceComponent: 'Fullscreen', get: kPlayer.ui.components.Remove }] } }; // Check and add plugins only if they exist if (kPlayer.plugins["download"]) { config.plugins.download = { disable: true }; } if

(kPlayer.plugins["transcript"]) { config.plugins["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 }; } if (kPlayer.plugins["preventSeek"]) { config.plugins.preventSeek = { preventSeekForward: false, preventSeek: false }; } config.plugins.floating = { disable: true }; if (kPlayer.plugins["navigation"]) { config.plugins.navigation = { position: "right", expandMode: "over", expandOnFirstPlay: false, visible: false }; } if (kPlayer.plugins["hotspots"]) { config.plugins['playkit-js-hotspots'] = { disable: true }; } if (kPlayer.plugins["moderation"]) { config.plugins['playkit-js-moderation'] = { disable: true }; } if (kPlayer.plugins["info"]) { config.plugins['playkit-js-info'] = { disable: true }; } if (kPlayer.plugins["share"]) { config.plugins.share = { disable: true }; } config.ui.uiComponents = []; if (kPlayer.plugins["googleAnalytics"]) { 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 } }; }

// Ensure the global player registry array always exists, regardless of embed type. window.kalturaPlayerVideos = window.kalturaPlayerVideos || []; try { var kalturaPlayer = kPlayer.setup(config); // Add the player to the global array. window.kalturaPlayerVideos.push(kalturaPlayer); // Load the Player for other media. kalturaPlayer.loadMedia({entryId: "1dgfvmafo"}); } catch (e) { console.error(e.message) }

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