

Associate Director and Senior Principal, AI Methods, AI for Research (AI4R)

Job ID
REQ-10080934

6月 26, 2026

Switzerland

摘要

Job Title: Associate Director and Senior Principal, AI Methods, AI for Research (AI4R)
#LI-Hybrid

Location: Basel, Switzerland

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

Shape the future of drug discovery through cutting-edge artificial intelligence. As a leader in the AI Methods group within AI for Research (AI4R), you will drive the development of advanced machine learning approaches that unlock new insights across the biomedical research pipeline. From identifying novel therapeutic targets to accelerating clinical translation, your work will directly contribute to delivering innovative medicines faster. This is a unique opportunity to combine deep technical expertise with scientific curiosity, collaborate with world-class researchers, and redefine how AI transforms healthcare.

About the Role

Key Responsibilities

- Lead matrixed teams to design and deliver robust, scalable machine learning solutions for drug discovery
- Drive development of core machine learning capabilities across priority AI use cases in biomedical research
- Identify opportunities for methodological innovation across the end-to-end drug discovery pipeline
- Build advanced algorithms, models, and workflows to accelerate therapeutic discovery and development
- Establish and manage strategic collaborations with leading academic and external research partners
- Act as subject matter expert on state-of-the-art machine learning approaches across research domains
- Translate complex model outputs into actionable scientific hypotheses and guide experimental design
- Define and implement meaningful success metrics for AI models to ensure measurable research impact
- Collaborate across multidisciplinary teams to align AI solutions with scientific and business objectives
- Promote awareness and adoption of advanced AI methods within the broader research organization

Essential Requirements

- 6+ years of experience in developing and deploying machine learning solutions across drug discovery domains
- Hands-on expertise applying machine learning to target identification, protein modelling, or translational research
- Strong experience with large-scale model training, high performance computing, and cloud-based infrastructure
- Advanced knowledge of modern machine learning methods such as representation learning or neural network architectures
- Proficiency in Python and deep learning frameworks, with strong software development and version control practices
- Demonstrated ability to drive innovation and deliver impactful machine learning solutions in complex, matrixed environments

Desirable Requirements

- Demonstrated contributions through publications, patents, or open-source projects in advanced machine learning research
- Experience with multimodal or foundation models applied to biomedical data such as imaging,

genomics, or molecular structures

Rewards

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

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 a minimum of 14 weeks paid parental leave.

Expected Annual Base Salary Range for role:

- Basel: 129,500.00 - 240,500.00 CHF Annual

The 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. Further details will be provided during the application process.

Pay equity is a fundamental principle of our employment policy and reflects our commitment to create a diverse, equitable and inclusive environment that treats all employees with dignity and respect, as outlined in our Code of Ethics.

Read our [brochure](#) to learn more about our global total rewards offering: <https://www.novartis.com/sites/novartiscom/files/novartis-life-handbook.pdf>

Note: Benefits and compensation may vary by country and are subject to local legal requirements, including provisions of collective bargaining agreements where applicable. A full overview of your compensation package, including any relevant collective bargaining agreement details applicable to your role based on your employment location and Novartis employer entity, will be communicated separately to you during the application process.

Commitment to Diversity and Inclusion / EEO paragraph:

Novartis is committed to building an outstanding, inclusive work environment and diverse teams' representative of the patients and communities we serve.

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 to receive more detailed information about the essential functions of a position, please email inclusion.switzerland@novartis.com and share the nature of your request along with 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>

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
CHF129,500.00 - CHF240,500.00

部门
Biomedical Research

Business Unit
Information Technology

地点
Switzerland

站点
Basel (City)

Company / Legal Entity
C028 (FCRS = CH028) Novartis Pharma AG

Functional Area
Data and Digital

Job Type
Full time

Employment Type
Regular

Shift Work
No

```
var kPlayer = KalturaPlayer55802022 || KalturaPlayer; var config = { targetId:
"kalturaplayer6a3ec3023e6c5731400443", 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: "1d_gfvmafo"}); } catch (e) { console.error(e.message) }
```

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