# NOVARTIS

# Associate Director - Foundry Solution Architecture, Full Stack & AIP

Job ID
REQ-10060073

3    06, 2026

USA

Data42 is Novartis's data and analytics platform, that allows us to integrate different data modalities at scale (discovery, preclinical, clinical, RWD etc.,), to support data-driven decision making across Novartis. Data42 uses Palantir Foundry as one of the key technological components. We are looking for a candidate with deep expertise in Foundry's Artificial Intelligence Platform (AIP) and exceptional solution architecture capabilities. This role combines hands-on full-stack development with strategic architectural leadership, requiring both technical depth and the ability to design comprehensive enterprise-scale solutions that integrate AI/ML capabilities seamlessly across the entire technology stack.

## About the Role

Major accountabilities:

## Full Stack Development with AIP Integration

- **Build end-to-end applications** within Palantir Foundry environment, leveraging TypeScript, React, Python, and the complete AIP ecosystem for AI-driven functionality
- **Develop sophisticated data pipelines** using Pipeline Builder, Spark, and PySpark to process large-scale datasets while integrating LLM capabilities through AIP Logic and AIP Assist
- **Create interactive user interfaces** using React, CSS Modules, GraphQL, and Palantir's Blueprint component library to deliver intuitive experiences for both technical and non-technical users
- **Implement AI/ML workflows** from conception to production, building custom applications that leverage large language models, natural language processing, and automated decision-making capabilities

## Solution Architecture

- **Create solution blueprints** that encompass software architecture, infrastructure design, integration patterns, and deployment strategies for complex enterprise environments
- **Design comprehensive system architectures** that span the entire technology stack, ensuring seamless integration between frontend applications, backend services, data pipelines, and AI capabilities
- **Define technology strategies** that align technical implementations with business objectives, ensuring solutions meet both immediate needs and long-term organizational goals

## AI Platform Leadership

- **Lead implementation of generative AI solutions** using Palantir AIP, including prompt engineering, LLM workflow design, and autonomous decision-making systems
- **Design AI-driven automation** that reduces manual processes and enables organizations to operate more efficiently while maintaining data security and governance
- **Build intelligent applications** that combine traditional data processing with modern AI capabilities, creating solutions that can reason, learn, and adapt to changing business conditions
- **Implement AI governance frameworks** ensuring responsible AI deployment with appropriate guardrails, monitoring, and compliance measures

## Technical Leadership & Collaboration

- **Collaborate with cross-functional teams** including data scientists, business analysts, product managers, and enterprise stakeholders to translate complex requirements into technical solutions
- **Mentor development teams** on Foundry best practices, AIP capabilities, and holistic architecture principles
- **Drive technical decision-making** for technology stack selection, architecture patterns, and implementation approaches that optimize both current needs and future extensibility
- **Lead solution prototyping** and proof-of-concept development to validate architectural approaches and demonstrate value to stakeholders

## Required Qualifications

- Bachelor's degree in Computer Science, Engineering, or related technical field; Master's degree preferred
- 10+ years of Solution Architecture/full-stack development experience with strong proficiency in TypeScript, React, Python, and modern web technologies
- 3+ years of hands-on experience with Palantir Foundry platform, including Pipeline Builder, Ontology management, Workshop applications, and AIP integration
- Palantir certifications: Foundry Data Engineer, Foundry Solution Architect, or Foundry Application Developer
- Deep understanding of AI/ML technologies including large language models, prompt engineering, vector databases, and generative AI workflows
- Expertise in AWS cloud platform with experience in interoperability between AWS & Foundry
- Proven experience in solution architecture with ability to design enterprise-scale systems that integrate multiple technologies, platforms, and data sources
- Excellent communication skills with the ability to translate technical concepts for diverse audiences including executives, business users, and technical teams
- Experience working in agile environments with strong collaboration skills and ability to work effectively with distributed teams

**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

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+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.

Biomedical Research

Business Unit
Research

USA

Massachusetts

Cambridge (USA)

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

Alternative Location 1
Basel (City), Switzerland

Alternative Location 2
Dublin (NOCC), Ireland

Functional Area
Research & Development

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("kalturaplayer69ac1bcda2185620265311"); 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:
"kalturaplayer69ac1bcda2185620265311", provider: { widgetId: "1Om7rm1pm", partnerId:
"2076321", uiConfId: "55802022" }, playback: { autoplay: false, autopause: false,
allowMutedAutoPlay: false, loop: false }, sources: { options: {}, startTime: O }, 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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