

Principal Engineer, MS&T

Job ID
REQ-10077826

7月 08, 2026

USA

摘要

Drive the future of gene therapy manufacturing and make a meaningful impact on patients' lives. As a Principal Engineer, MS&T, you will serve as a scientific and technical leader for upstream processes, bringing deep expertise in gene therapy manufacturing to support innovation, troubleshoot complex challenges, and continuously elevate product quality. You will play a critical role in shaping manufacturing excellence, leading cross-functional collaboration, and advancing cutting-edge technologies to ensure reliable, high-quality delivery of life-changing therapies.

About the Role

Location:

- This position will be located in Durham, NC and will be an onsite role.
- Novartis is unable to offer relocation support for this role: please only apply if this location is accessible for you.

Key Responsibilities:

- Provide technical leadership and subject matter expertise for complex scientific investigations, regulatory submissions, and inspections
- Lead the analysis of process verification and manufacturing data to identify trends, assess process performance, and drive data driven continuous improvement initiatives
- Leverage deep expertise in upstream manufacturing processes (including mammalian cell culture and gene therapy platforms) to troubleshoot and resolve complex manufacturing issues across internal operations and external partners (CMOs)
- Mentor and develop MS&T staff, providing technical guidance in upstream processing, including troubleshooting of complex platforms such as triple transfection
- Lead and support product technology transfers into GMP manufacturing environments, ensuring successful scale-up, process robustness, and knowledge transfer across receiving sites
- Partner cross-functionally with Manufacturing, Quality, Engineering, and Validation teams to ensure reliable execution of production processes and sustained commercial supply
- Monitor critical quality attributes and process parameters to maintain product consistency
- Define and implement process improvements with global process owners and operations teams
- Support the startup, qualification, and lifecycle management of manufacturing equipment, systems, and processes, ensuring compliance with validation and regulatory expectations
- Author, review, and approve technical documentation (e.g., investigations, change controls, process descriptions) to ensure accuracy, completeness, and regulatory defensibility
- Drive operational excellence initiatives and collaborate with Quality to ensure regulatory compliance

Essential Requirements:

- Bachelor ' s degree with at least 12 years, Master ' s degree with 10 years, or PhD with at least 8 years of relevant experience. OR 9 years of experience with 3 + years of Novartis gene therapy process support.
- Experience in biopharmaceutical manufacturing aligned with the degree and years of experience outlined above
- Strong expertise in mammalian cell culture and bioreactor systems, both suspension and adherent
- Demonstrated experience with upstream processing, including triple transfection for gene therapy
- Deep understanding of GMP requirements and validation principles
- Proven ability to lead complex technical troubleshooting and manufacturing investigations
- Strong written and verbal communication skills across cross-functional teams
- Experience with technology transfer, process improvement, and operational excellence initiatives

Novartis Compensation and Benefit Summary:

The salary for this position is expected to range between \$126,000 and \$234,000 annually

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.

#LI-Onsite

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
Operations

Business Unit
Production / Manufacturing

地点
USA

状态
North Carolina

站点
Durham

Company / Legal Entity
U473 (FCRS = US473) Novartis Gene Therapies

Functional Area
Technical Operations

Job Type
Full time

Employment Type
Regular

Shift Work
No

var kPlayer = KalturaPlayer55802022 || KalturaPlayer; var config = { targetId:
"kalturaplayer6a9a5d472fa20484645896", 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 } }; }

```

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// Ensure the global player registry array always exists, regardless of embed type.
window.kalturaPlayerVideos = window.kalturaPlayerVideos || []; try { var thumbEmbedPromise =
thumbnailEmbed({config, mediaInfo: {entryId: "1dgfvmafo"}}); // thumbnailEmbed() returns a
Promise that resolves with the player instance // when the user clicks the thumbnail. Use .then() to
capture the player directly. thumbEmbedPromise .then(function(player) {
window.kalturaPlayerVideos.push(player); // Notify kaltura_dataLayer.js that a new player is ready so
it can // attach custom event listeners immediately, regardless of when // the user clicked the
thumbnail relative to page load. document.dispatchEvent(new CustomEvent('kalturaPlayerReady', {
detail: { player: player } })); }) .catch(function(error) { console.error(error); }); } catch (e) {
console.error(e.message) }

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