Careers in Technical Operations

Novartis Technical Operations (NTO) is the manufacturing division of Novartis. We strive to deliver high quality, affordable medicines on time, every time, safely and efficiently, and become the top manufacturer of innovative and generic medicines in the industry - while keeping our patients at the heart of everything we do.

How do we aim to do it?

We in NTO play a critical role in enabling the company’s mission to reimagine medicine by providing the manufacturing technology that enables breakthrough medical innovation to deliver our medicines to patients. As Novartis continues to evolve, we are fundamentally transforming the way we work to match our capacity and capabilities to the changing demands of the product portfolio. Building on our strengths, we are re-imagining manufacturing and supply to continue to serve our patients and the business sustainably now and in the years to come.

As one of the largest divisions within Novartis, we take necessary actions to overcome headwinds via standardization, creating more value through our supplier relationships, network transformation / synergies and data & technology. We have committed to ambitious goals for the future of our operations that will help Novartis continue to reimagine manufacturing by making high quality medicines accessible to patients around the world.

~71 bn

Units supplied to patients in 2021

766m

Lives impacted

155

Countries

26 000 +

Associates working towards our shared purpose
NTO Platforms:

6 integrated Manufacturing and Supply units with end-to-end responsibility for manufacturing, internal &
external supply.

Large Molecules Platform

The Large Molecules Platform is based on synergies and interlinks between the Biotech Drug Substance sites
(comprising management of cell banks, upstream and downstream processes) and Drug Product sites (that
include formulation, filling under aseptic conditions and packaging).

Cell & Gene Therapy Platform

The Cell and Gene Therapy Platform mission is to collaboratively deliver timely access to cost-effective,
quality, innovative medicines which improve and extend patient lives. The platform is responsible for the
manufacturing of ground-breaking cell and gene therapies, including Chimeric Antigen Receptor T-Cell (CAR-
T) therapy. This CAR-T therapy is tailored individually to and manufactured for each patient via pioneering
technology. Currently the platform consists of three internal CAR-T manufacturing sites and four CMOs.

Small Molecules Platform

This platform aims to optimize and further enhance the end-to-end supply of small molecules innovative
medicines products to become a top-class customer service center and reliable partner to our customers and
patients.

Sandoz Technical Operations Platform

The platform has full end-to-end responsibility for all dedicated Sandoz production sites, Sandoz external
suppliers and the end-to-end Sandoz Supply Chain. TechOps Strategy, network decisions, Capex allocation,
supply point decisions and volume strategy (including CMO/B2B) are fully owned by this team and are
developed and executed in full alignment with the Sandoz Divisional Strategy.

Ophthalmology and Local Market Manufacturing

The Ophthalmology and Local Market Manufacturing (LMM) Platform's mission is to create, maintain and/or
leverage patient & market access by driving focused ophthalmology business and creating local competitive
advantages through NTO value creation and innovation, by delivering affordable medicines to patients and
becoming more agile.

Novartis Gene Therapies

The mission of Novartis Gene Therapies (GTx) is to become the global leader in gene therapy. From the lab to
the patient, and every stop along the way, GTx is relentless in its dedication to developing and commercializing transformational gene therapies. Gene therapy stands at the very forefront of scientific advancement and is helping to usher in both a new way of treating genetic diseases and new futures for patients impacted by them.

**Note: Contract Manufacturing Organization (CMO)** - In addition to the above platforms, we recently launched a Contract Manufacturing Organization within NTO. This new unit will focus on producing biologics and cell and gene products for other companies, leveraging our outstanding manufacturing assets, technology, and capabilities from different parts of our organization, and our highly skilled teams.

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**Quality**

In Quality, our guiding purpose is to have a positive impact on patients. With a goal to go beyond compliance and look to serve our patients effectively, we are transforming to become an agile quality organization by –

- simplifying our operations for efficiency
- eliminating duplication and
- innovating how we work

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3 years, 4 sites, 3 production platforms. Having started as a trainee, I have since moved into a position which is central to our production organization where I am able to improve and stabilize processes by working closely with colleagues across different functions.

**Julian, Process Expert**

**Why apply your skills and knowledge at Novartis?**
We recognize career development stems from personal growth, and personal growth stems from experiences. We are 'unbossed' to drive our own personal growth, to feed our curiosity, and to challenge, stretch and enhance our skills and knowledge.

In addition to the innumerable learning & mentoring opportunities available, we have access to:

- New Hire functional training programs
- NTO Innovation Studio
- Site Head Academy
- Capabilities building
- Talent and Inclusion Development Programs

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