

Cell Therapy Development Operations (CTDO) Summer Internship

Cell Therapy is a new frontier with many interdependencies and a critical need for innovation. The **CTDO Summer Internship Program** offers undergraduate students the opportunity to engage with each of the functions responsible for bringing these novel therapies to life at Bristol Myers Squibb.

Program Overview

The 2022 program will offer a select group of interns the opportunity to take part in on-site and virtual projects that will provide **meaningful impact** to their preferred functional area over the course of 10 weeks. Projects may range from establishing clinical data correlations to identifying a novel solution to a supply chain challenge or evaluating a new technology for implementation into commercial manufacturing.

Interns who are successful in the CTDO Summer Internship will be given preferred access to our Cell Therapy Rotational Program (CTRP) and opportunities for direct-placement within Bristol Myers Squibb.

Intern Experience

Culture is at the core of Bristol Myers Squibb. The CTDO Summer Internship offers a broad offering of summer programming to enrich interns' experience. Company programming includes panels and workshops with a focus on early career development topics. CTDO-specific activities include an exclusive speaker series with insights from industry professionals and advice for navigating work-life balance. With an equal focus on community-building, the program also provides a range of virtual recreational activities to support networking.

Candidates will have opportunities to be technically immersed and trained during their experiences in:

- Product & Analytical Development
- Process Science & Technology
- Manufacturing
- Manufacturing Sciences & Technology
- Pipeline & Product Lifecycle Strategy
- Patient Operations/Experience
- Strategy Business Operations
- Supply Chain
- Quality

CTDO locations include:

- Washington (Seattle, Bothell)
- New Jersey (Summit, Warren)
- Massachusetts (Devens)
- Other domestic & international locations

To apply:

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What does each CTDO functional area do?

Process Science & Technology (PS&T) develops manufacturing platforms to enable current and new product formats, increased product control, lower cost, and lower operational complexity. The PS&T organization works to accelerate the development and implementation of novel technologies to CTDO for integration into existing drug product platform processes.

Product & Analytical Development (P&AD) advances knowledge for cell therapy products, gene delivery tools, and ancillary materials to enable current and future generation cell therapy development. The P&AD organization delivers product and analytical development strategies, analytical technology and assay automation, product characterization data packages, and QC release and characterization methods for cell therapy, gene delivery platforms, and residuals.

The Manufacturing Sciences and Technology (MSAT) team provides technical expertise and ownership of the CAR T cell manufacturing process, supports manufacturing site's right to operate and facility improvements, leads validation activities, business owner for manufacturing-focused automation activities (e.g., MES, DeltaV, OSI PI), develops MES recipes in collaboration with IT, conducts tech transfers to internal and external manufacturing sites, and implements process changes as well as next generation manufacturing equipment per the product's life cycle plan.

The **Manufacturing** group is responsible for producing our cell therapy products, this group implements processes developed by PS&T, in a GMP compliant environment. Manufacturing collaborates on facility, equipment, process improvements with various stakeholders including PS&T, facilities and engineering, MSAT, and Quality; works closely with scheduling/supply chain; and requires technical expertise in addition to meticulous documentation to help ensure chain of identity of patient material, support product safety, and compliance.

The goal of the **Supply Chain** organization is to ensure compliant and continuous supply across CTDO. The organization encompasses various groups including supply planning and logistics, external manufacturing and strategic sourcing, supply product leads, and operations research.

The **Quality** organization leads Bristol Myers Squibb's adherence to product quality and GMP compliance requirements in product development activities and in the manufacturing operations, to support patient safety, minimize regulatory risks and accelerate product development and commercialization. The Quality organization also conducts testing of our cell therapy products before they are released to treatment sites for administration to patients. The Quality organization has oversight within internal activities, and provides support to activities conducted at external suppliers and service providers

The Cell Therapy **Patient Operations** team works on delivering and creating the best patient experience for CAR T patients who utilize Bristol Myers Squibb therapies. At a detailed level, this includes coordinating conversations with the CAR T provider, patient scheduling, transfer of patient material to manufacturing, and return of material back to the patient for infusion.

The focus of the **Pipeline & Product Lifecycle Strategy (PPLS)** organization is on the cell therapy pipeline as well as shaping product strategy throughout the lifecycle of a cell therapy asset. The organization encompasses the leaders and project managers of the CTDO asset teams, technical writing, and business development all of whom contribute to defining strategies for both early- and late-stage pipeline cell therapy molecules enabling global regulatory approval and launches. CTDO asset teams use, develop, and deploy project management tools and provide project management support for CTDO.

The **Strategy & Business Operations** group is accountable for CTDO strategy stewardship, strategy communications, and project management. The group tracks and communicates CTDO goals, maintains CTDO strategy document, integrates business operations among CTDO functions, and serves as the custodian of CTDO strategy governance and forums and various CTDO communications (monthly bulletin, News4You and CTDO portal).

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