



Leading the Way in Advanced Manufacturing for Biopharma and Medical Technologies

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New Jersey is known for its rich history in life sciences innovation. Our strategic location, highly skilled workforce, and unparalleled concentration of biopharma and medical device manufacturers have cemented our role as the "Medicine Chest of the World." With a thriving economy built on cutting-edge research, development, and manufacturing, we are at the forefront of advanced manufacturing for biopharmaceuticals, medical devices and technologies.

New Jersey's role as a hub for aseptic manufacturing, cell and gene therapy production, radioligand therapy manufacturing, and specialized medical device manufacturing highlights its contributions to global health. The state's highly trained labor community builds these intricate facilities, while partnerships between industry, education, and government strengthen our position as an innovation state.

The Power of Collaboration: Industry, Labor, and Education

New Jersey's advanced manufacturing sector is the result of collaboration between private industry, organized labor, community colleges, and state agencies. The state's skilled labor force constructs and maintains the complex facilities needed for biopharma and medical device production, ensuring products meet regulatory requirements and quality standards.

Partnerships between biopharma and medical technology companies and educational institutions are integral to building a skilled workforce. Programs at community colleges, technical schools, and universities provide training in aseptic

manufacturing, robotics, and bioprocessing, while the New Jersey Department of Labor helps align training with industry needs.

These efforts connect manufacturing with the local economy, preparing residents for high-paying careers that support global health.

Advanced Manufacturing in the Biopharma and Medical Technology Sector

New Jersey is home to some of the most advanced manufacturing techniques and sectors in the world. Aseptic manufacturing requires precision and adherence to Good Manufacturing Practices (GMP) to prevent contamination and remains central to the state's life sciences innovation. Demand for new therapies continues to drive growth in this sector.

Cell and gene therapies, created using living cells and genetic material, are produced in highly specialized facilities. New Jersey's capabilities ensure these treatments can be manufactured at scale and delivered to patients.

In radioligand therapy, an emerging cancer treatment, Novartis produces radiopharmaceuticals designed to target and destroy cancer cells, with facilities built to meet rigorous safety standards.

Additionally, New Jersey's manufacturing sector plays a key role in medical devices, including special metallurgic manufacturing at Zimmer Biomet's state-of-the-art facilities that are essential for creating durable, high-performance medical products used in surgeries and implants. Stryker's Mahwah facility produces orthopedic hip and knee implants for patients around the world. And in Delran, BD's "knitting" facility manufactures key components for their tissue repair/reconstruction products. These capabilities ensure devices meet the needs of patients and healthcare providers.

The Economic Impact of Advanced Manufacturing

Advanced manufacturing extends far beyond facility walls, contributing significantly to New Jersey's economy by creating high-paying jobs and attracting investment. Roles across the sector – from technicians and scientists to engineers – offer competitive wages and advancement opportunities.

Sustaining this workforce requires academia and government to provide training and certifications. Partnerships like NJBioFutures, involving community colleges such as Mercer, Middlesex, Raritan and the NJ Community College Consortium, driven by companies like Johnson & Johnson, support workforce development with industry-aligned curricula.

The collaboration between **industry, organized labor, and educational institutions** not only strengthens the state's position as an innovation leader, but also contributes to economic **growth, job creation**, and the **advancement of healthcare worldwide**.

The benefits extend to the broader community. Construction and operation of manufacturing facilities rely on skilled trades such as electricians, pipefitters, and welders, supporting local businesses and service providers. It also drives demand for additional R&D, reinforcing the state's position as a global life sciences hub.

The Future is Now: Strengthening New Jersey's Role as the Innovation State

New Jersey's advanced manufacturing sector requires a skilled workforce, advanced facilities, and collaboration across industry, labor, and education to make the state a prime location for next-generation medical innovations. These capabilities improve global health outcomes while ensuring residents have access to well-paying, high-demand careers.

As the "Medicine Chest of the World," our advanced manufacturing sector remains vital to global healthcare. Collaboration continues to strengthen the state's role as an innovation leader. With sustained investment in advanced manufacturing and workforce development, New Jersey is shaping the future of medicine, medical devices, diagnostics and technologies – one innovative solution at a time. ◉

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