



MI BioWorkforce Apprenticeship Program

A Legislatively Directed Spending Item Request – FY2026



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The Biosciences Industry



Agri-Bioscience

- Agricultural Processing
- Agri-biotech & Seed
- Basic & Renewable (bio-based) Chemicals & Materials
- Organic Fiber & Biofuels Mfg.
- Fertilizers
- Food, Supplementals & Nutraceuticals



R&D Testing

- Basic Biological Research
- Clinical & Translational Research
- Commerical R&D
- Analytical Environmental, Industria Testing Labs
- Medical. Clinical Labs & Diagnostic Imaging Centers



Pharma

- Synthetic Drugs
- Natural Products & Botanicals
- Pharmaceutical Preparations Mfg.
- Vaccines & Biological Products
- Consumer Healthcare & Over-the-Counter Drugs
- Diagnostic Substances



Logistics

- Distribution of Agricultural Products, Chemicals & Seeds
- Distribution of Biomedical Equipment & Supplies, Pharmaceutical & Therapeutic Products
- Specialty Pharmacies & Drug Managment



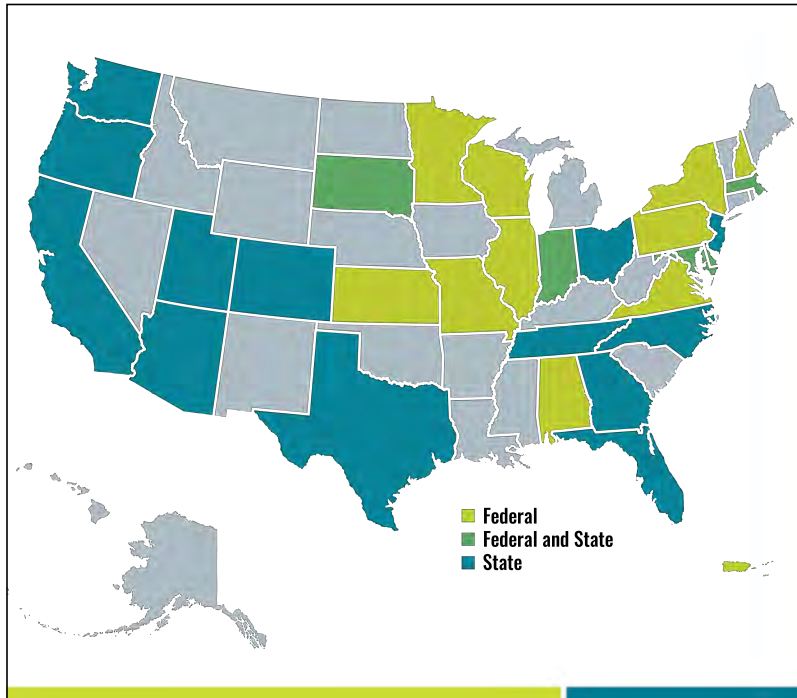
Medical Devices

- Laboratory Instruments, Fixture, & Furniture
- Medical, Surgical, Dental, Ophthalmic Devices, Instruments, & Equipment
- Irradiation Devices, Imaging, & Electro-medical Equipment



Healthtech

- Biomedical Informatics: Bio-Research, Clinical, Imaging, Consumer, Public
- Health Informatics, Health Information, Mgmt
- Digital Health: Healthcare Technology, E-Health, Telehealth, Health Systems Engineering, Clinical Decision Support



Competitive Landscape: Regional Bio-Industry Workforce Initiatives

- **Massachusetts:** \$50M+ for biotech workforce training.
- **North Carolina:** \$40M+ for NC State's Biomufacturing Training & Education Center (BTEC) and broader NCBioImpact biomufacturing workforce training.
- **Ohio:** Life Sciences Futures for STEM and workforce training as part of an overall \$30M Industry Sector Partnerships initiative to build a statewide biomufacturing training facility.
- **Virginia:** \$67M+ for biomufacturing (infrastructure, training) as part of state's "Compete to Win" economic development initiative.
- **New Jersey:** NJBioFutures public-private partnership focused on biomufacturing workforce training
- **Oregon:** \$2.1 million Access Bio Apprenticeship Program under the \$200M Future Ready Oregon workforce development initiative.
- **Georgia:** GA BioScience Training Center and GA Quick Start Program as part of broader High Demand Career Initiatives workforce development program.

States Investing in Workforce Development

- **\$2.062 million** requested to launch BioWorkforce Apprenticeship Program for biomanufacturing.
- **Designed for non-degreed talent** to “up-skill” for production jobs.
- **Biomanufacturing curriculum** to be deployed at community colleges
 - focused on Good Manufacturing Practice, cleanroom operations, aseptic processing, quality control, etc.
- **12-month paid registered apprenticeships** with industry mentors.
- **Wraparound support services** for economic mobility.
- Industry-recognized credentials and **job-ready graduates**.
- **Statewide Target Regions:** Grand Haven-Holland-South Haven, Grand Rapids, Kalamazoo, Lansing, Muskegon, Oakland & Wayne Counties.

LDSI: Workforce Program Features

LDSI Economic and Workforce Benefits

- Trains 40–60 skilled workers in the first three years; **scalable to demand**, expandable to other essential functional roles like QA, compliance, etc.
- Creates **high-wage, future-proof** job pathways.
- **Employer-driven model** ensures job placement.
- **Expands biomanufacturing hubs** statewide.
- **Boosts local economies** and supports national biosecurity.
- **Strengthens Michigan’s competitiveness** in life sciences.

ROI and Metrics

- Success metrics:
 - # of trained apprentices
 - # of job placements
 - # of industry partnerships
 - Amount of follow-on funding and employer co-investment
- **Leverages employer participation** and private capital.
- Supports **statewide life science infrastructure**.
- Promotes **long-term workforce** sustainability.
- **Model can scale** beyond pilot regions and focus.
- Can serve as **critical match for federal funding**.

MichBio LDSI Summary

- **Launch industry-supported, scalable MI BioWorkforce Apprenticeship Program.**
- **Deliver equitable, high-skill career opportunities and make sustainable Michigan's biosciences workforce pipeline.**
- **Bipartisan supported, multidistrict-deployable workforce program.**
- **Position Michigan competitively in advanced biomanufacturing and help resurgence of statewide bio-industry.**
- **Unlock long-term economic and innovation dividends.**
- **Strengthen economic resilience and national biosecurity**