

Pennsylvania is a national leader in the biosciences and home to premier universities, hospitals, and other bioscience research institutions. The state is a top employer in bioscience industries, a leading innovator in bioscience-related patents, and nationally-ranked investor in academic R&D and recipient of federal research grants.

Pennsylvania has been home for more than a century to innovative companies and researchers working to improve health. The PA biosciences community has continued to grow, to diversify, and to contribute new scientific breakthroughs that have had significant impact to human health globally.

Pennsylvania's Bioscience Industry Overview

Total Bioscience Industry (Including biotech, pharma, device, diagnostic, contract research, laboratory equipment, etc.):

- 77,413 employees
- 339,439 total employment impact (4.38 multiplier)
- 1,736 establishments
- \$5.9 billion in total wages
- Average employee salary of \$76,306

Drugs and Pharmaceuticals

- 22,298 employees
- 111 establishments
- Average employee salary of \$98,070

Medical Device and Diagnostics

- 20,446 employees
- 598 establishments
- Average employee salary of \$54,341

Research, Testing, and Medical Laboratories

- 32,855 employees
- 967 establishments
- Average employee salary of \$75,575

Agricultural Feedstock and Chemicals

- 1,814 employees
- 60 establishments
- Average employee salary of \$69,580

NIH Funding FY 2008: Approximately \$1.34 billion

Two Pennsylvania universities are in the top 10 nationally:

- University of Pennsylvania
- University of Pittsburgh

2007 VC Funding: \$787 million

Key findings of the *State Bioscience Initiative 2008 Report* conducted by Battelle, BIO, and SSTI highlight a large, diverse, and nationally-ranked bioscience sector in Pennsylvania including:

- 77,413 bioscience jobs across 1,736 business establishments; ranking Pennsylvania among the top 6 U.S. state employers in three of the four major bioscience subsectors (**2nd in research, testing, and medical labs; 4th in drugs and pharmaceuticals¹; and 6th in medical devices and equipment**)
- 339,439 total employment impact, including bioscience jobs and jobs added through the ripple effect. Pennsylvania's employment multiplier for the total bioscience industry is 4.38
- \$76,306 in average annual wages for a bioscience worker in the commonwealth, nearly twice the average private sector wage (\$41,013) for all workers in the state
- Venture capital investments in Pennsylvania bioscience companies were very strong in 2007, with more than \$787 million invested; the biosciences now account for the majority of all VC investments in the state
- Strong and specialized employment in two of the four major bioscience subsectors—drugs and pharmaceuticals and research, testing, and medical laboratories
- Vibrant state innovation in terms of bioscience-related patents issued; PA ranks 3rd in bioscience-related patents
- Pennsylvania ranks 4th among all states in bioscience academic R&D expenditures
- Among all states, Pennsylvania ranks 4th in total research awards from the National Institutes of Health (NIH) in FY 2008

¹ This report includes Puerto Rico, which ranked 3rd in the calculations of U.S. state employers.

Pennsylvania's Strengths

Pennsylvania has enjoyed success and growth as a world-leading location for bioscience companies for many reasons:

- A location in the heart of the bio-pharmaceutical corridor, providing access to a deep talent pool and partners for our region's biotechnology companies
- World-class academic/research institutions that annually garner substantial NIH funding
- A location within an hour's train ride to the world's financial center in New York City and two hours to the U.S. regulatory center in Washington, DC
- Easiest springboard in the U.S. to the European markets—Pennsylvania is situated equi-distance between the U.S. west coast industry and the European markets
- High quality of life for families and a competitive cost of doing business, with stable real estate rates to help companies plan for growth
- A strong heritage of innovation
- Strong allied skills—ancillary industries and a robust service provider network that support the growth of the industry
- Supportive state government policies