

GLOBAL HEALTH & LIFE SCIENCES

INDUSTRY SPOTLIGHT



WASHINGTON: THE NEXUS OF GLOBAL HEALTH AND LIFE SCIENCES

As an established center for global health, life sciences technologies and world-class research institutions, Washington leads the advancement of healthcare, biotech and science. Washington companies pioneer diagnostic initiatives, technologies, devices and research, changing the way the world lives.

Washington's global health and life sciences industry benefits from access to world-class nonprofit organizations, companies and research institutions including the Bill & Melinda Gates Foundation, PATH, Washington Biotechnology and Biomedical Association, Washington Global Health Alliance and the Fred Hutchinson Cancer Research Center. This industry collaboration provides a strong infrastructure to support companies through all stages ranging from research and development to commercialization.

POSITIONED TO DRIVE INNOVATION

The combination of research, workforce, funding and a mix of small and large companies creates a vibrant global health and life sciences cluster in Washington.

- More than 950 organizations lead innovation in global health and life sciences.
- Research centers employ more than 3,850 scientists in the state.
- More than 190 Washington nonprofit organizations promote global health.
- Washington companies received \$761.6 billion in funding from the National Institute of Health (NIH) in 2008.
- The Bothell Biomedical Device Innovation Partnership Zone links companies, researchers and trade organizations to foster industry growth and success.
- The Life Sciences Discovery Fund supports life sciences research with grants.



Photo courtesy of Pacific Northwest National Laboratory

WORLD-CLASS RESEARCH INSTITUTIONS IN WASHINGTON

Research drives global health and life sciences innovation, and Washington is home to organizations behind revolutionary discoveries:

- Allen Institute for Brain Science
- Benaroya Research Institute
- Fred Hutchinson Cancer Research Center
- Infectious Disease Research Institute
- Institute for Systems Biology
- Pacific Northwest National Laboratory
- Seattle BioMed
- University of Washington
- Washington State University

DIVERSE & SPECIALIZED LIFE SCIENCES WORKFORCE



Source: U.S. Bureau of Labor Statistics, Occupational and Employment Statistics

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BREAKTHROUGH DEVELOPMENTS IN LIFE SCIENCES

Many of the world's greatest breakthroughs in health and science were conceived, researched and developed in Washington.

- The first FDA-approved cancer immunotherapy product, Provenge, was developed by Dendreon for the treatment of men with advanced prostate cancer.
- Immunex, now Amgen, developed a biologic for patients with rheumatoid arthritis.
- Sonar technology developed by the University of Washington led to recent advances in ultrasound imaging technology.
- Acucela is developing orally delivered visual cycle modulation (VCM) therapies to treat blinding eye diseases affecting millions of people.

- An antibody-based test for bovine tuberculosis discovered by Dr. William Davis at Washington State University shortens the time needed to detect the infection.
- The Malaria Clinical Trials Center at Seattle BioMed is testing advanced malaria treatments and vaccines for humans.
- Outpatient renal dialysis was pioneered by Dr. Belding Scribner at the University of Washington Medical Center.

TAXES & INCENTIVES

- High technology business and operation tax credit for research and development spending
- High technology sales and use tax deferral/waiver
- Biotechnology and medical device manufacturing sales and use tax deferral/waiver



Photo courtesy of Pacific Northwest National Laboratory

CROSS-SECTOR COLLABORATION BUILDS INDUSTRY STRENGTH

Global health and life sciences companies come to Washington to take advantage of the cross-sector collaboration, partnerships and research that are the result of an established industry cluster.

- Bioagriculture
- Biomedical Devices
- Bioinformatics
- Biotechnology
- Drug Discovery
- Genetics
- Healthcare Services
- Healthcare IT
- Immunology
- Nutrition
- Oncology
- Therapeutics
- Veterinary Medicine



“Washington State is such an incredible place. It has an incredible support network for young companies, evolving companies or mature companies. We help each other succeed. The support and collaboration is worth a fortune.”

Karen Hedine, President
Micronics Inc.

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Department of Commerce
Innovation is in our nature.