

Global Health R&D

→ *A smart investment for* **ILLINOIS**



Global Health Research and Development:

working to improve lives at home and abroad.

Job Creation

- ❑ Illinois is one of the top 10 bioscience employers in the U.S. Each bioscience job generates on average an additional 5.8 jobs.*
- ❑ 57,000 people in Illinois work in bioscience, including global health R&D.**
- ❑ The average salary of each job generated by National Institutes of Health funding to Illinois is \$56,000.***
- ❑ Illinois boasts over 200 academic, government and non-profit research institutions, as well as seven research and technology parks.****
- ❑ Public and private investments in global health R&D have produced tens of thousands of jobs in medicine, research, public health and education for Illinois.

Source: * Battelle/BIO State Bioscience Initiatives 2010.
 ** U.S. Bureau of Labor Statistics, Quarterly Census of Employment and Wages (QCEW).
 *** In Your Own Backyard: How NIH Funding Helps Your State's Economy, June 2008, A report by Families USA's Global Health Initiative.
 **** Illinois Economic Recovery Plan, Jobs for Today and Tomorrow, December 2009.

Why Invest?

- ❑ Public sector investment in health research reaps shared rewards for our economy and society, including improving health and providing important economic incentives to stimulate private sector investment in Illinois.*
- ❑ Illinois receives \$739 million in federal funding from the NIH and \$236 million from the Centers for Disease Control and Prevention (FY09), important economic drivers for global health R&D and the state.**
- ❑ Every \$1 million that the NIH invests, including those for global health R&D projects, generates more than \$2 million in new state business activity.***
- ❑ 75% of Illinoisans believe it is important for the state to offer incentives for companies to invest in research to improve health globally.****

Source: *Remarks by the President at the National Academy of Sciences, Annual Meeting 2009.
 **NIH, Office of Extramural Research, Award Trends, Dollars Awarded by State, 2004 and 2009. CDC, Office of the Associate Director for Communication, CDC State Funding Map, Illinois, FY2009. Note: NIH funding numbers exclude funding from ARRA
 *** In Your Own Backyard: How NIH Funding Helps Your State's Economy, June 2008, A report by Families USA's Global Health Initiative.
 **** Illinois Global Health Survey, 2010, Charlton Research Company for ResearchAmerica

HEALTH IMPACT

- ▶ **Global health R&D funding led to a Chicago researcher's discovery of today's primary treatment for bladder cancer—the tuberculosis vaccine BCG.***
- ▶ **Improvements in Illinois inner city population immunizations have shown greater than 90% success rate, twice the normal rate. Global health R&D lessons lead to such successes and better health outcomes in Illinois.****

Source: *Groves, M.J., Ph.D., D.Sc., A Brief History of BCG in Chicago, May 2002.
 **University of Chicago, MRSA Research Center, Lisa Verber Pediatric Immunization Program (PIP).



ILLINOIS PROFILES AND PARTNERSHIPS



SCOTT FRANZBLAU
 DIRECTOR
 University of Illinois at Chicago Institute for TB Research

University of Illinois at Chicago's Institute for Tuberculosis (TB) Research brings in \$1–\$1.5 million each year to fight TB both at home and abroad. By engaging Illinois companies such as (biotech) Immtech as well as attracting funding from U.S. federal agencies like the NIH, the Institute brings the various components of a drug discovery program within a single academic institute. Such investments have also allowed the Institute to add up to 31 science-related jobs as well as purchase lab equipment and computers.

Abbott's commitment to science extends beyond its own labs to include partnerships with prominent universities to advance science, further invigorate the local economy and build a pipeline of future leaders. An Illinois-based healthcare company, Abbott is a key force in the state and globally. One of the state's largest employers, Abbott provides jobs for more than 13,000 people in Illinois and nearly 90,000 worldwide. With products for patients in more than 130 countries, the company generated \$30.8 billion in sales in 2009. The same year, Abbott invested \$2.7 billion in research and development, with 7,000 scientists working in dedicated R&D centers in Illinois and around the world.

ECONOMIC IMPACT

Where does Illinois rank?

SOURCE OF R&D FUNDING	INVESTMENT	STATE RANK
Federal Government	\$2,326,000,000	13
Industry	\$11,211,000,000	7
Universities	\$497,000,000	4
Non-profit	\$120,000,000	7
Other*	\$134,000,000	9
Total	\$14,287,000,000	8

*Other represents funding from state and local governments and funding for Federally Funded Research and Development Centers from non-federal sources.
Source: National Science Foundation, National Patterns of R&D Resources, 2008

- ▶ Illinois ranks 5th in the nation in population size (12.9 million people), the state ranks 8th in the country in R&D investment, and 13th in federal funding.
Source: U.S. Census Bureau, Annual Population Estimates, 2008.
- ▶ Less than one penny of every U.S. health dollar goes toward global health R&D.
Source: U.S. Investment in Global Health Research, Research!America.

Illinois Global Ties

Dollar for dollar, global health is one of Illinois' best investments. Investments in biomedical research and global health R&D produce growth opportunities at universities, medical centers, and local companies that help keep the Illinois economy growing and improves the health of people here and all over the world.

- ▶ Illinois is the #1 destination for foreign investment in the Midwest.
- ▶ As the 5th leading exporter in the U.S.—with pharmaceuticals, medical devices, chemicals and technology topping its list of products—Illinois has important ties globally.
- ▶ The burden of disease such as malaria, HIV/AIDS, and TB cripples economies, depresses world demand for U.S. goods and services, and threatens health and jobs here.

Source: Why Does Global Health Matter to Illinois? Families USA's Global Health Initiative 2008.



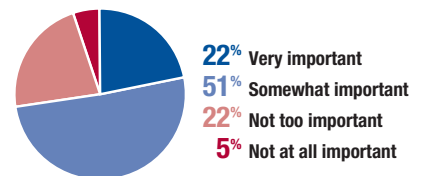
Global health is America's health.

All navy recruits from around the country begin their training at Naval Station Great Lakes in Illinois before setting out for ports all over the world. 90% of Illinoisans are concerned about those same troops and their exposure to global health diseases. Our troops also face challenges associated with drug resistance, a problem here and around the world. More than 90% of Illinoisans are concerned about drug resistance and believe that it is very important that global health research is conducted to help prevent drug resistance around the world. Source: Illinois Global Health Survey, 2010, Charlton Research Company for Research!America.

What Illinoisians are saying

Global health research spending is important to the economy of Illinois.

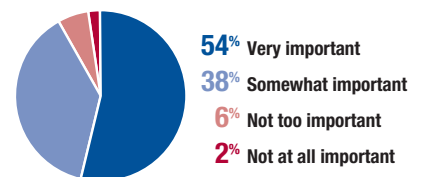
In terms of jobs and incomes, how important do you think spending money on research to improve health globally is to the economy of Illinois?



Source: Illinois Global Health Survey, 2010, Charlton Research Company for Research!America.

92% of residents believe it is important for Illinois to be a leader in health R&D.

How important is it for Illinois to be a leader in health research and development?



Source: Illinois Global Health Survey, 2010, Charlton Research Company for Research!America.



1101 King Street, Suite 520
Alexandria, Virginia 22314
703.739.2577
Fax 703.739.2372
www.researchamerica.org
info@researchamerica.org