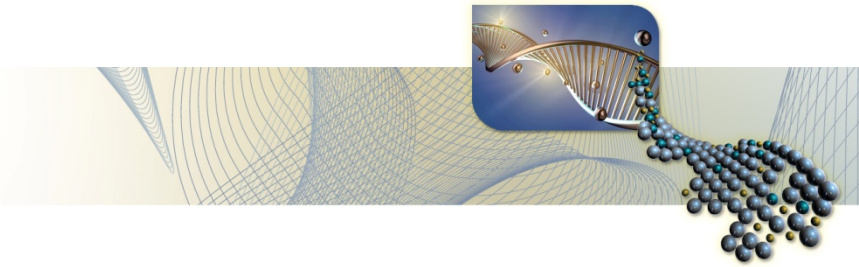


ILLINOIS



Illinois has a greater than 5 percent share of national employment and specialized concentrations in both the agricultural feedstock and chemicals subsector (location quotient of 1.93) and the drugs and pharmaceuticals sector (1.35). Academic research expenditures in biosciences totaled \$1.3 billion in 2008, mainly in medical sciences (\$716 million) and biological sciences (\$401 million). Academic R&D in the State has had strong growth since 2004, increasing by 27.5 percent or above the national growth rate. Illinois' biomedical research institutions hosted 661 active clinical trials in 2009. The State plays a key role in generating talent in the biosciences with its higher education institutions graduating more than 10,000 with degrees in bioscience-related fields in 2008. Bioscience-related patents totaled 2,904 over the 6-year period from 2004 through 2009, with innovation focused in drugs and pharmaceuticals, biochemistry, and surgical and medical instruments.

●●● Bioscience Performance Metrics

Summary of State Performance in Selected Bioscience-related Metrics

Metrics	Illinois	United States	Rank*
Bioscience Industry, 2008			
Total Bioscience Industry Employment, 2008	57,345	1,420,324	I
Bioscience Industry Location Quotient, 2008	0.92	n/a	II
Biosciences Industry Establishments, 2008	1,962	47,593	I
Academic R&D Expenditures, FY 2008			
Bioscience R&D (\$ thousands)	\$1,283,347	\$31,818,810	7
Bioscience Share of Total R&D	65.1%	61.3%	19
Bioscience R&D Per Capita	\$99.93	\$104.54	23
Change in Bioscience R&D, FY 2004–08	27.5%	22.3%	11
NIH Funding, FY 2009			
Total, Including ARRA Funds (\$ thousands)	\$884,277	\$25,837,590	9
Per Capita Funding	\$68.49	\$84.16	21
Change in Baseline Funding, FY 2004–09**	7.6%	-4.7%	13
Change in Total Funding, FY 2004–09	28.7%	14.6%	18
Clinical Trials, Initiated 2009	661	5,299	9
Higher Education Degrees in Bioscience Fields, AY 2008	10,355	161,811	3
Employment in Bioscience-related Occupations, 2008	22,310	717,510	9
Bioscience Venture Capital Investments, 2004–09 (\$ millions)	\$653.5	\$60,099	16
Bioscience and Related Patents, 2004–09	2,904	75,593	10

*State ranking figures for bioscience industry employment metrics are calculated as quintiles (I=Top Quintile; V=Bottom Quintile). All other metrics are ranked 1-52.

**Baseline Funding does not include American Recovery and Reinvestment Act (ARRA) funds for 2009.

For source notes, see end of State Profile.

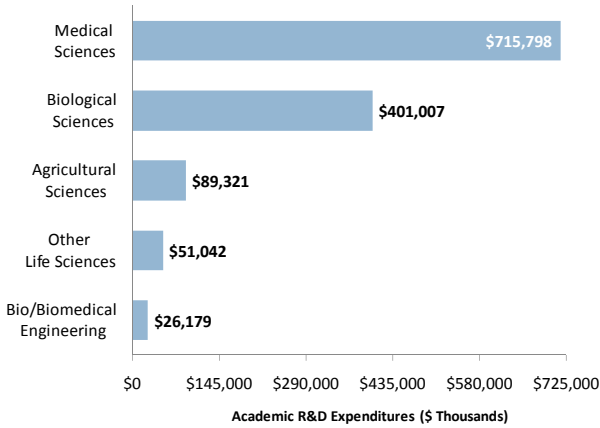
●●● Bioscience Industry Base, 2008

INDUSTRY SUBSECTOR	Illinois		United States	
	2008	2001-08 Change	2008	2001-08 Change
AGRICULTURAL FEEDSTOCK & CHEMICALS				
Establishments	125	46.7%	2,440	16.0%
Employment	9,760	6.5%	114,793	1.9%
Location Quotient	1.93		n/a	
Direct-Effect Employment Multiplier	10.34		11.33	
Total Employment Impact	100,929		1,284,650	
Average Annual Wage	\$74,451		\$72,279	
DRUGS & PHARMACEUTICALS				
Establishments	117	-6.4%	2,771	6.4%
Employment	18,533	-8.6%	311,882	2.3%
Location Quotient	1.35		n/a	
Direct-Effect Employment Multiplier	7.89		9.92	
Total Employment Impact	146,283		2,873,278	
Average Annual Wage	\$108,885		\$93,378	
MEDICAL DEVICES & EQUIPMENT				
Establishments	766	11.7%	15,227	0.4%
Employment	14,296	2.4%	435,509	2.0%
Location Quotient	0.74		n/a	
Direct-Effect Employment Multiplier	3.62		4.87	
Total Employment Impact	51,700		2,029,581	
Average Annual Wage	\$84,237		\$63,606	
RESEARCH, TESTING, & MEDICAL LABORATORIES				
Establishments	954	58.3%	27,154	57.7%
Employment	14,756	-7.2%	558,140	46.1%
Location Quotient	0.60		n/a	
Direct-Effect Employment Multiplier	2.63		3.30	
Total Employment Impact	38,758		1,853,127	
Average Annual Wage	\$81,581		\$80,785	
TOTAL BIOSCIENCES INDUSTRY				
Establishments	1,962	30.9%	47,593	28.3%
Employment	57,345	-3.3%	1,420,324	15.8%
Location Quotient	0.92		n/a	
Direct-Effect Employment Multiplier	5.89		5.82	
Total Employment Impact	337,669		8,040,636	
Average Annual Wage	\$89,854		\$77,595	
TOTAL PRIVATE SECTOR				
Establishments	358,990	15.2%	8,860,956	13.8%
Employment	5,021,352	-1.1%	113,917,377	3.5%
Average Annual Wage	\$48,986		\$45,229	

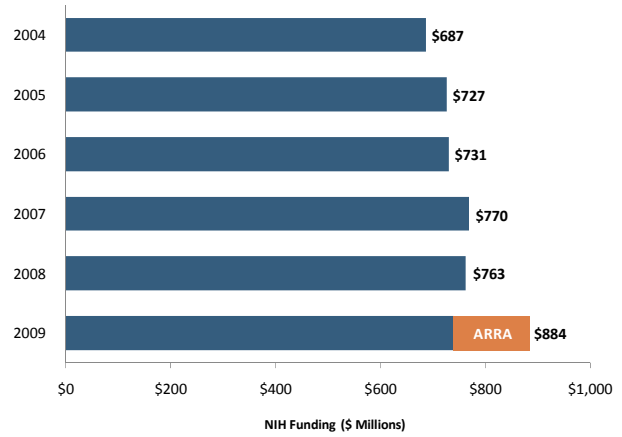
Note: U.S. employment metrics include Puerto Rico. Estimates of total employment impacts do not include Puerto Rico.

●●● Bioscience Performance Metrics

Bioscience Academic R&D Expenditures in Illinois, FY 2008

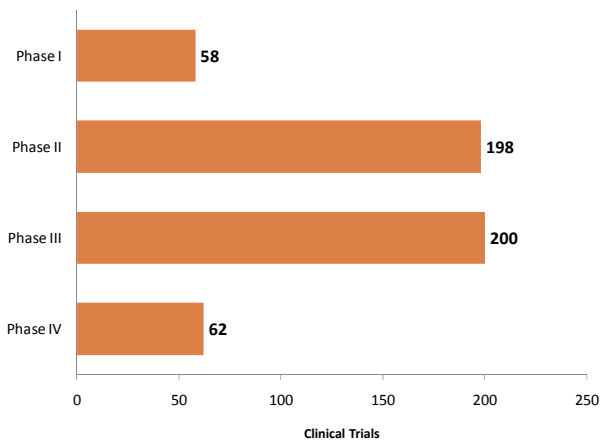


NIH Awards in Illinois, 2004–2009

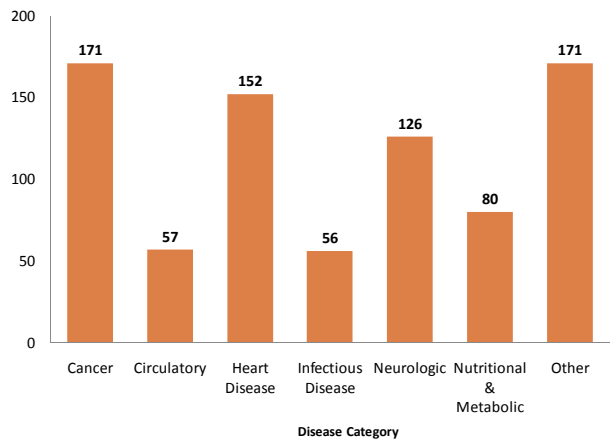


●●● Recent Clinical Trial Activities

Clinical Trials by Phase in Illinois, 2009

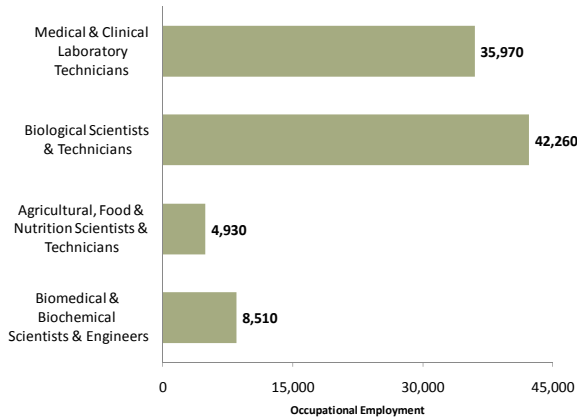


Clinical Trials by Major Disease Category in Illinois, 2009

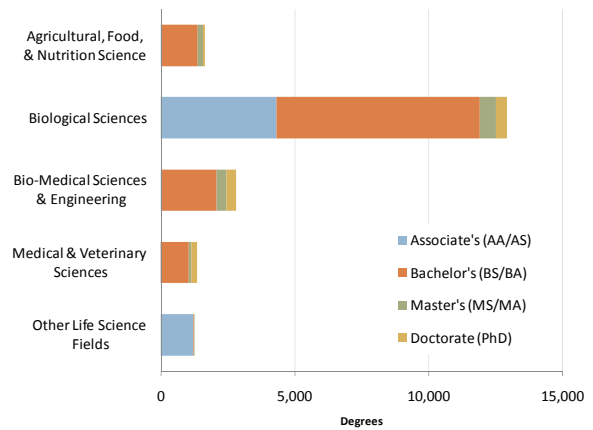


Bioscience Talent Base

Bioscience-related Occupational Employment in Illinois, 2008

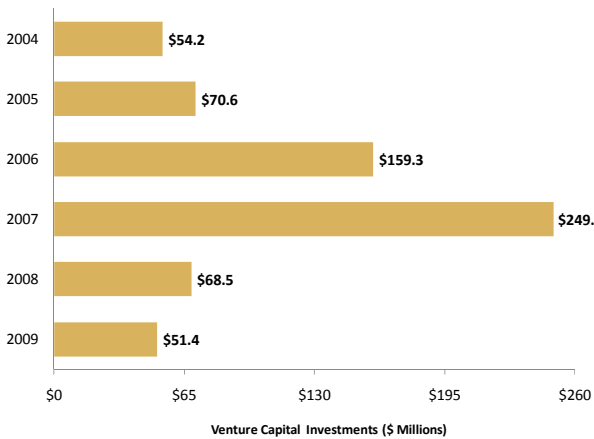


Bioscience-related Degrees in Illinois, AY 2008

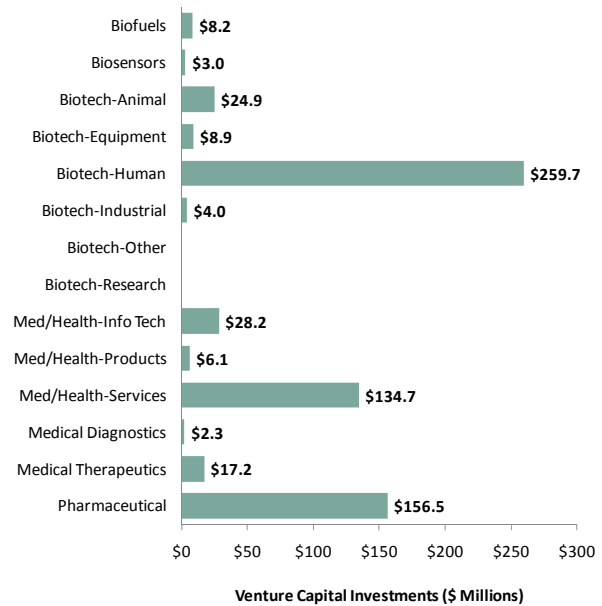


Bioscience Venture Capital

Bioscience-related Venture Capital Investments in Illinois, 2004–2009

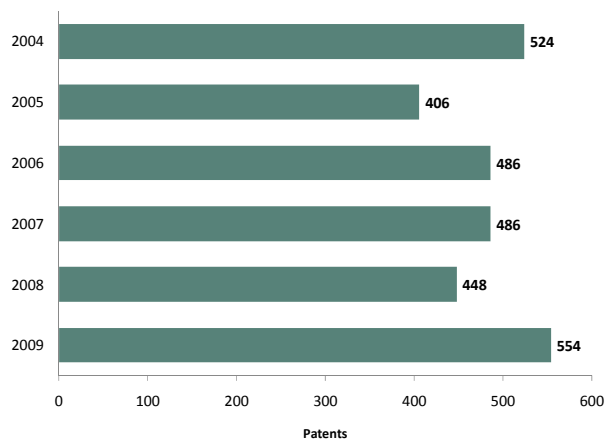


Bioscience-related Venture Capital Investments in Illinois by Segment, 2004–2009

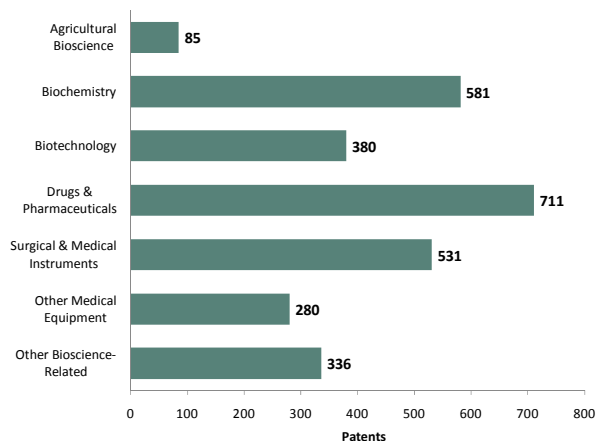


●●● Bioscience Patents

Bioscience-related Patents in Illinois, 2004–2009



Bioscience-related Patents by Classification Group in Illinois, 2004–2009



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Source Notes:

Employment, Establishment, and Wage Data: U.S. Bureau of Labor Statistics, Quarterly Census of Employment and Wages (QCEW) industry data provided by the Minnesota IMPLAN Group, 2001 and 2008.

Employment Multipliers: U.S. Bureau of Economic Analysis RIMS II Employment Multipliers, 2006 (most currently available).

Academic R&D Expenditures: National Science Foundation (NSF) Survey of Research and Development Expenditures at Universities and Colleges, 2004 and 2008.

NIH Funding: National Institutes of Health, Office of Extramural Research, Award Trends, Dollars Awarded by State, 2004 and 2009.

Clinical Trials: National Institutes of Health, Clinicaltrials.gov, trials that were initiated in 2009.

Higher Education Degrees: National Center for Educational Statistics, Integrated Postsecondary Education Data System (IPEDS), 2008.

Occupational Employment: U.S. Bureau of Labor Statistics, Occupational Employment Statistics (OES) survey data, 2008.

Venture Capital: Thomson Reuters' VentureXpert Database, 2004–2009, as of January 15, 2010.

Patents: U.S. Patent & Trademark Office data as available from the Thomson Reuters' Delphion Patent Analysis Database, 2004–2009, as of January 15, 2010.

For a more detailed discussion of the data and methodology used, please see the Appendix to the full national report. ©2010