

Idaho has an employment specialization in two bioscience subsectors: agricultural feedstock and chemicals (location quotient of 2.97) and research, testing, and medical laboratories (1.62). In 2008, the agricultural sciences accounted for nearly half the state's \$59 million in academic bioscience research expenditures, followed by biological sciences. The State increased its NIH funding in 2009 to \$15 million with the additional funding included in the American Recovery and Reinvestment Act (ARRA). The 166 bioscience-related patents issued during the last six years were diverse across the major groups with biochemistry and surgical and medical instruments leading among the categories.

●●● Bioscience Performance Metrics

Summary of State Performance in Selected Bioscience-related Metrics

Metrics	Idaho	United States	Rank*
Bioscience Industry, 2008			
Total Bioscience Industry Employment, 2008	6,815	1,420,324	IV
Bioscience Industry Location Quotient, 2008	1.01	n/a	II
Biosciences Industry Establishments, 2008	316	47,593	IV
Academic R&D Expenditures, FY 2008			
Bioscience R&D (\$ thousands)	\$59,135	\$31,818,810	46
Bioscience Share of Total R&D	52.1%	61.3%	38
Bioscience R&D Per Capita	\$38.71	\$104.54	50
Change in Bioscience R&D, FY 2004–08	-6.2%	22.3%	52
NIH Funding, FY 2009			
Total, Including ARRA Funds (\$ thousands)	\$14,783	\$25,837,590	51
Per Capita Funding	\$9.56	\$84.16	51
Change in Baseline Funding, FY 2004–09**	0.3%	-4.7%	22
Change in Total Funding, FY 2004–09	38.7%	14.6%	7
Clinical Trials, Initiated 2009	107	5,299	40
Higher Education Degrees in Bioscience Fields, AY 2008	736	161,811	41
Employment in Bioscience-related Occupations, 2008	2,950	717,510	39
Bioscience Venture Capital Investments, 2004–09 (\$ millions)	\$19.9	\$60,099	43
Bioscience and Related Patents, 2004–09	166	75,593	43

*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.

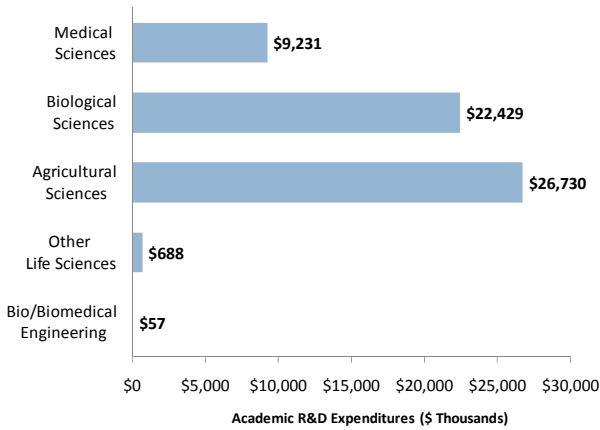
●●● Bioscience Industry Base, 2008

INDUSTRY SUBSECTOR	Idaho		United States	
	2008	2001-08 Change	2008	2001-08 Change
AGRICULTURAL FEEDSTOCK & CHEMICALS				
Establishments	47	66.9%	2,440	16.0%
Employment	1,616	51.3%	114,793	1.9%
Location Quotient	2.97		n/a	
Direct-Effect Employment Multiplier	5.84		11.33	
Total Employment Impact	9,433		1,284,650	
Average Annual Wage	\$54,233		\$72,279	
DRUGS & PHARMACEUTICALS				
Establishments	19	269.4%	2,771	6.4%
Employment	210	-31.3%	311,882	2.3%
Location Quotient	0.14		n/a	
Direct-Effect Employment Multiplier	3.59		9.92	
Total Employment Impact	754		2,873,278	
Average Annual Wage	\$48,256		\$93,378	
MEDICAL DEVICES & EQUIPMENT				
Establishments	114	39.0%	15,227	0.4%
Employment	702	-29.9%	435,509	2.0%
Location Quotient	0.34		n/a	
Direct-Effect Employment Multiplier	2.55		4.87	
Total Employment Impact	1,788		2,029,581	
Average Annual Wage	\$41,512		\$63,606	
RESEARCH, TESTING, & MEDICAL LABORATORIES				
Establishments	136	30.2%	27,154	57.7%
Employment	4,287	8.7%	558,140	46.1%
Location Quotient	1.62		n/a	
Direct-Effect Employment Multiplier	2.50		3.30	
Total Employment Impact	10,732		1,853,127	
Average Annual Wage	\$70,813		\$80,785	
TOTAL BIOSCIENCES INDUSTRY				
Establishments	316	43.8%	47,593	28.3%
Employment	6,815	7.8%	1,420,324	15.8%
Location Quotient	1.01		n/a	
Direct-Effect Employment Multiplier	3.33		5.82	
Total Employment Impact	22,708		8,040,636	
Average Annual Wage	\$63,167		\$77,595	
TOTAL PRIVATE SECTOR				
Establishments	54,041	23.7%	8,860,956	13.8%
Employment	539,626	15.6%	113,917,377	3.5%
Average Annual Wage	\$33,566		\$45,229	

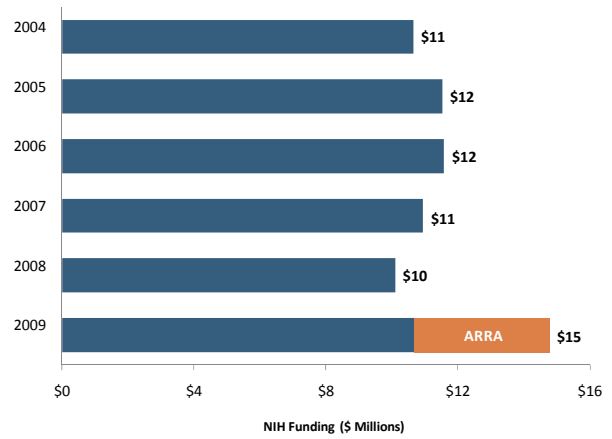
Note: U.S. employment metrics include Puerto Rico. Estimates of total employment impacts do not include Puerto Rico.

●●● Bioscience Performance Metrics

Bioscience Academic R&D Expenditures in Idaho, FY 2008

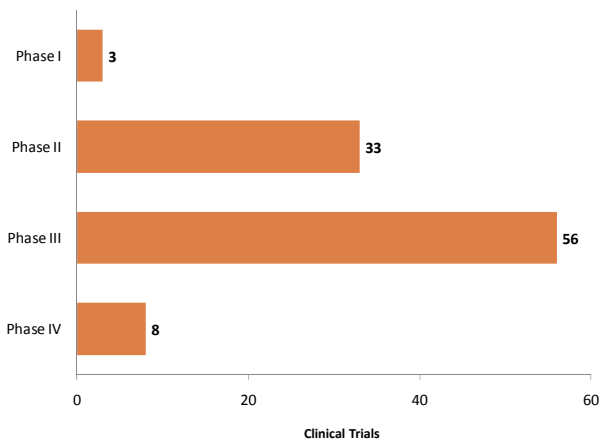


NIH Awards in Idaho, 2004–2009

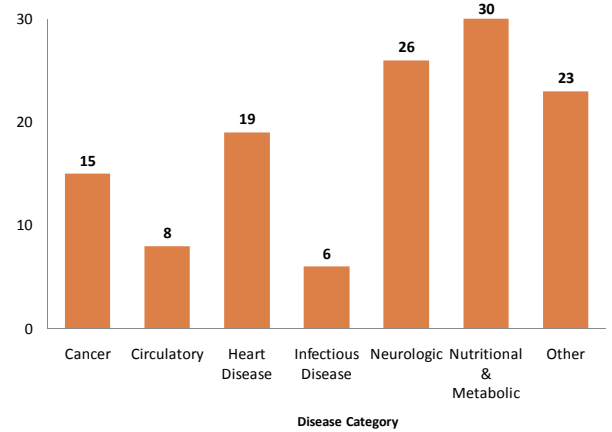


●●● Recent Clinical Trial Activities

Clinical Trials by Phase in Idaho, 2009

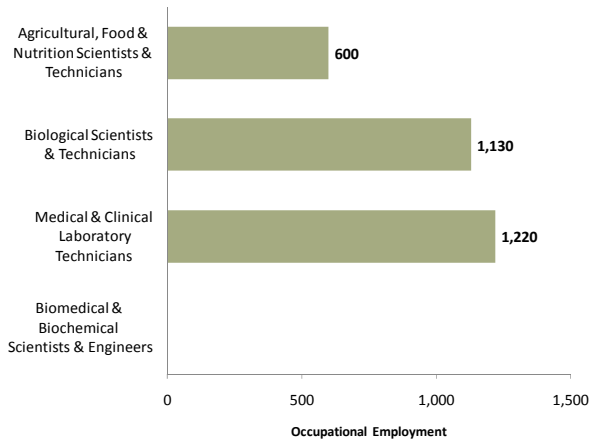


Clinical Trials by Major Disease Category in Idaho, 2009

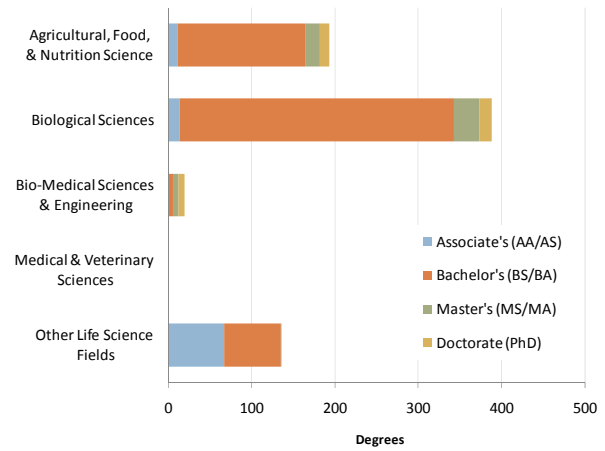


Bioscience Talent Base

Bioscience-related Occupational Employment in Idaho, 2008

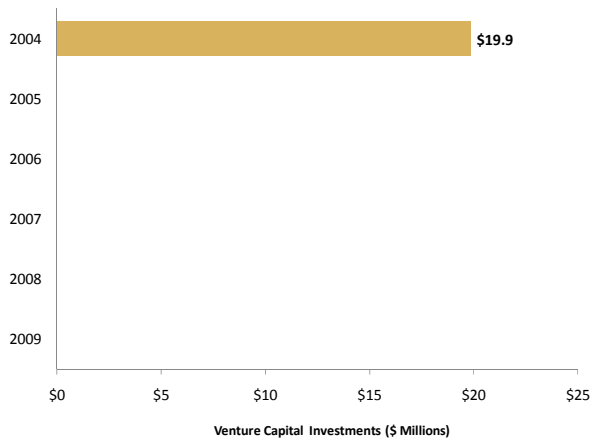


Bioscience-related Degrees in Idaho, AY 2008

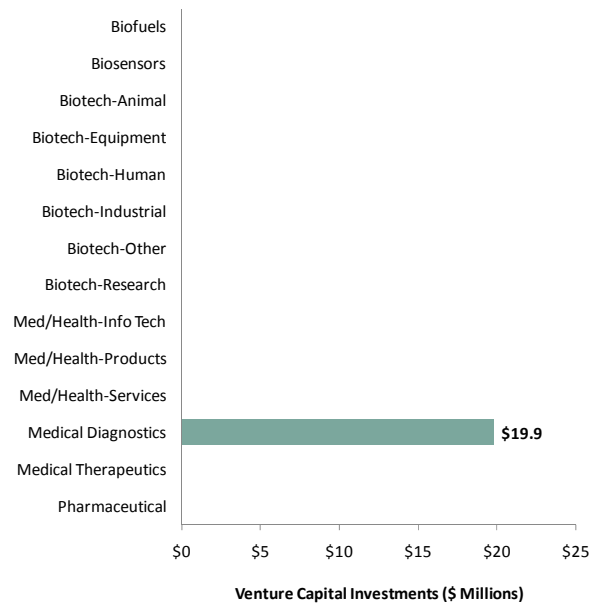


Bioscience Venture Capital

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

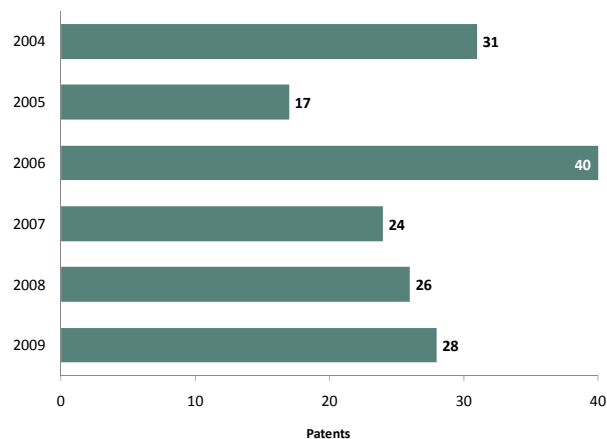


Bioscience-related Venture Capital Investments in Idaho by Segment, 2004–2009

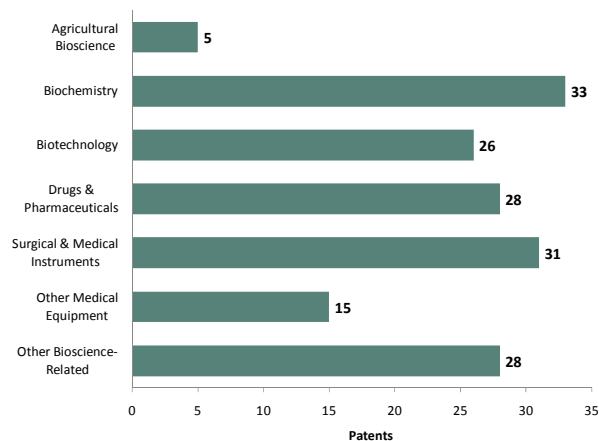


●●● Bioscience Patents

Bioscience-related Patents in Idaho, 2004–2009



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



State Bioscience Contact

Idaho Technology Council

519 W. Front Street

Boise, ID 83702

P: (208) 514-4542

www.idahotechcouncil.org

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