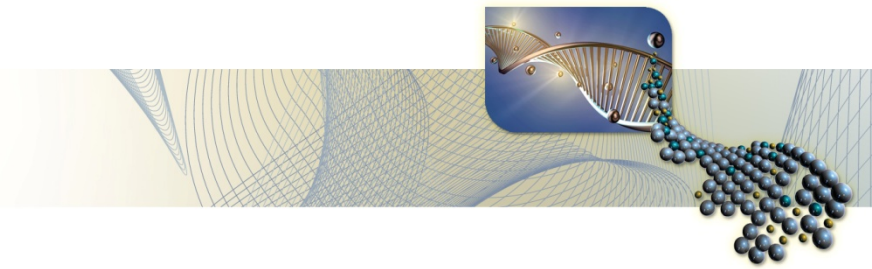


WYOMING



Wyoming has a specialized employment concentration in agricultural feedstock and chemicals (location quotient 1.31), though its job total in the subsector is modest. Academic bioscience research and development expenditures in 2008 totaled \$40 million, the largest share of which was in biological sciences (\$18 million), followed by agricultural sciences. Wyoming has seen above-average growth rates in both academic R&D in the biosciences and funding from the National Institutes of Health since 2004. Of the 80 bioscience patents issued to Wyoming inventors in the last six years, the largest share was in biochemistry, followed by surgical and medical instruments.

●●● Bioscience Performance Metrics

Summary of State Performance in Selected Bioscience-related Metrics

Metrics	Wyoming	United States	Rank*
Bioscience Industry, 2008			
Total Bioscience Industry Employment, 2008	860	1,420,324	V
Bioscience Industry Location Quotient, 2008	0.31	n/a	V
Biosciences Industry Establishments, 2008	83	47,593	V
Academic R&D Expenditures, FY 2008			
Bioscience R&D (\$ thousands)	\$39,791	\$31,818,810	50
Bioscience Share of Total R&D	53.3%	61.3%	36
Bioscience R&D Per Capita	\$74.66	\$104.54	37
Change in Bioscience R&D, FY 2004–08	43.4%	22.3%	5
NIH Funding, FY 2009			
Total, Including ARRA Funds (\$ thousands)	\$9,632	\$25,837,590	52
Per Capita Funding	\$17.70	\$84.16	48
Change in Baseline Funding, FY 2004–09**	9.8%	-4.7%	9
Change in Total Funding, FY 2004–09	18.5%	14.6%	25
Clinical Trials, Initiated 2009	25	5,299	51
Higher Education Degrees in Bioscience Fields, AY 2008	359	161,811	51
Employment in Bioscience-related Occupations, 2008	890	717,510	52
Bioscience Venture Capital Investments, 2004–09 (\$ millions)	\$0.0	\$60,099	51
Bioscience and Related Patents, 2004–09	80	75,593	47

*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.

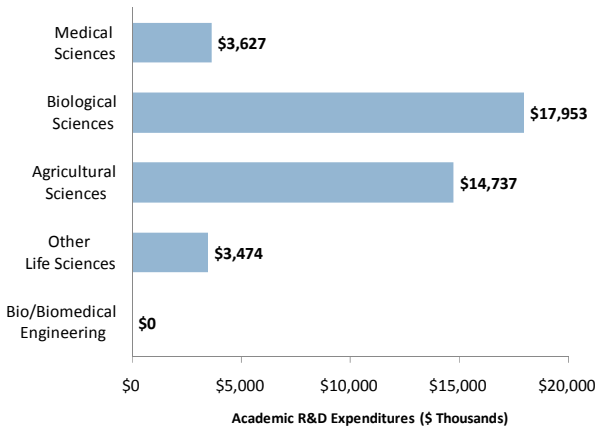
●●● Bioscience Industry Base, 2008

INDUSTRY SUBSECTOR	Wyoming		United States	
	2008	2001-08 Change	2008	2001-08 Change
AGRICULTURAL FEEDSTOCK & CHEMICALS				
Establishments	6	-4.1%	2,440	16.0%
Employment	294	-37.8%	114,793	1.9%
Location Quotient	1.31		n/a	
Direct-Effect Employment Multiplier	5.85		11.33	
Total Employment Impact	1,722		1,284,650	
Average Annual Wage	\$67,885		\$72,279	
DRUGS & PHARMACEUTICALS				
Establishments	6	-25.0%	2,771	6.4%
Employment	81	50.0%	311,882	2.3%
Location Quotient	0.13		n/a	
Direct-Effect Employment Multiplier	2.50		9.92	
Total Employment Impact	202		2,873,278	
Average Annual Wage	\$45,673		\$93,378	
MEDICAL DEVICES & EQUIPMENT				
Establishments	20	-18.6%	15,227	0.4%
Employment	110	-13.7%	435,509	2.0%
Location Quotient	0.13		n/a	
Direct-Effect Employment Multiplier	1.79		4.87	
Total Employment Impact	197		2,029,581	
Average Annual Wage	\$36,950		\$63,606	
RESEARCH, TESTING, & MEDICAL LABORATORIES				
Establishments	51	26.4%	27,154	57.7%
Employment	374	30.3%	558,140	46.1%
Location Quotient	0.34		n/a	
Direct-Effect Employment Multiplier	1.73		3.30	
Total Employment Impact	648		1,853,127	
Average Annual Wage	\$73,261		\$80,785	
TOTAL BIOSCIENCES INDUSTRY				
Establishments	83	4.9%	47,593	28.3%
Employment	860	-8.7%	1,420,324	15.8%
Location Quotient	0.31		n/a	
Direct-Effect Employment Multiplier	3.22		5.82	
Total Employment Impact	2,769		8,040,636	
Average Annual Wage	\$64,163		\$77,595	
TOTAL PRIVATE SECTOR				
Establishments	23,499	17.9%	8,860,956	13.8%
Employment	223,537	23.3%	113,917,377	3.5%
Average Annual Wage	\$41,140		\$45,229	

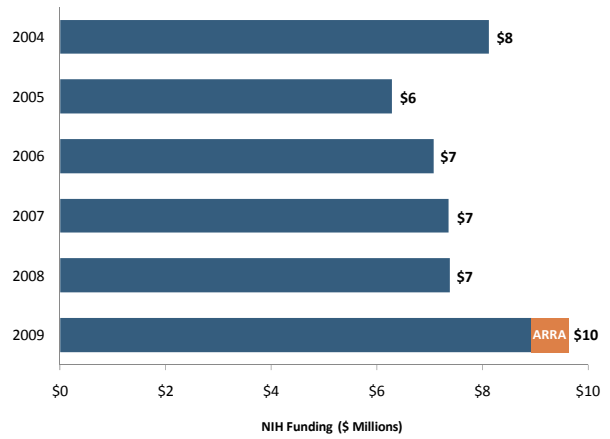
Note: U.S. employment metrics include Puerto Rico. Estimates of total employment impacts do not include Puerto Rico.

●●● Bioscience Performance Metrics

Bioscience Academic R&D Expenditures in Wyoming, FY 2008

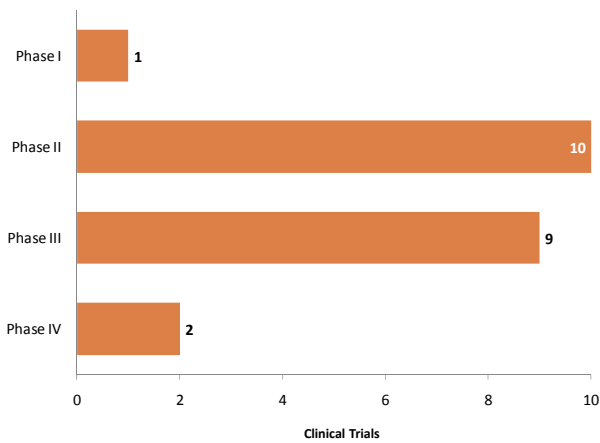


NIH Awards in Wyoming, 2004–2009

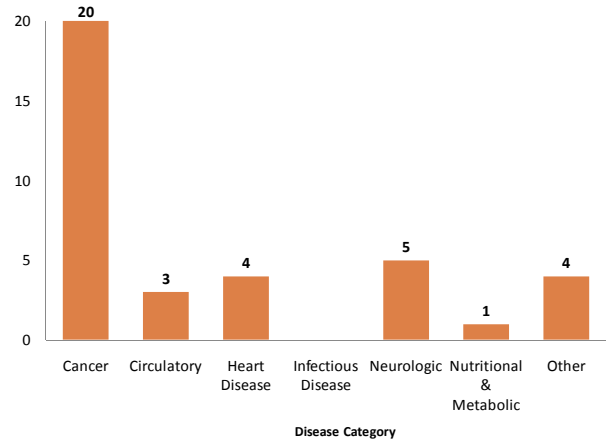


●●● Recent Clinical Trial Activities

Clinical Trials by Phase in Wyoming, 2009

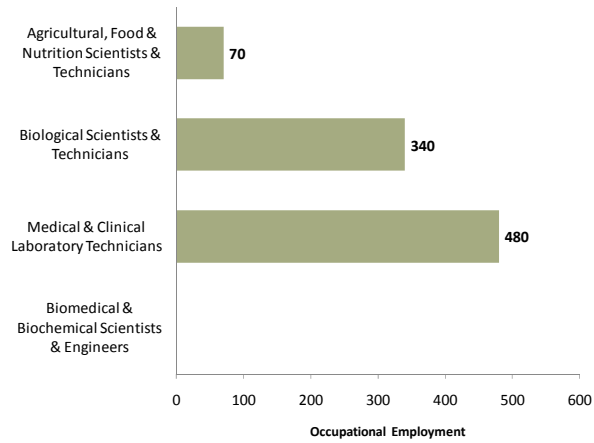


Clinical Trials by Major Disease Category in Wyoming, 2009

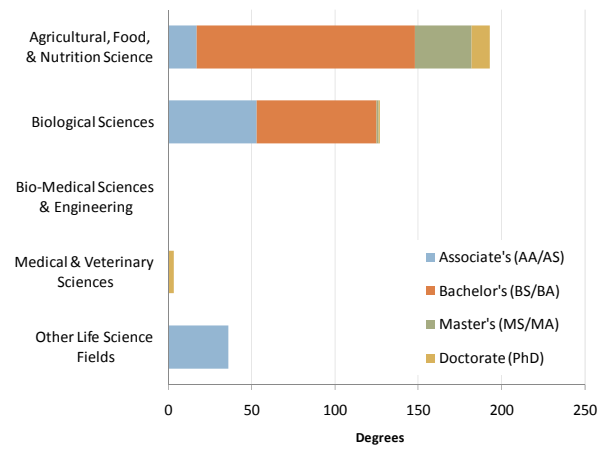


●●● Bioscience Talent Base

Bioscience-related Occupational Employment in Wyoming, 2008

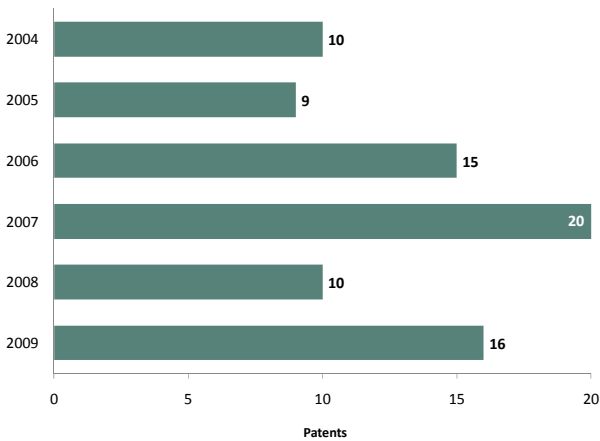


Bioscience-related Degrees in Wyoming, AY 2008

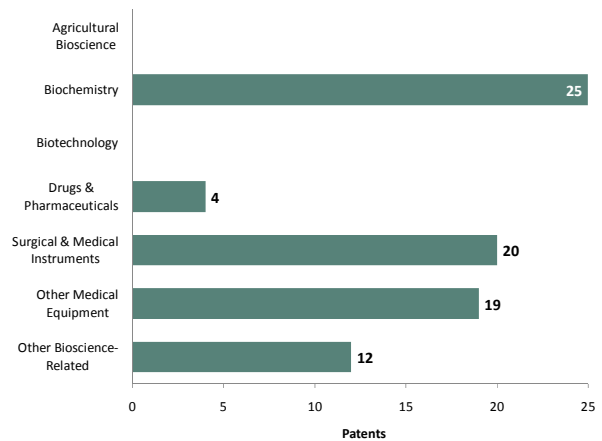


●●● Bioscience Patents

Bioscience-related Patents in Wyoming, 2004–2009



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





State Bioscience Contact

No designated contact

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