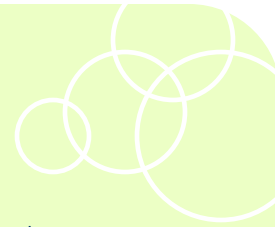


## WYOMING



The largest bioscience subsector in Wyoming is research, testing, and medical laboratories (347 jobs); and there is a high concentration of jobs in agricultural feedstock and chemicals (location quotient of 1.19). Academic bioscience research expenditures in 2006 totaled \$51 million, the largest share of which was in agricultural sciences (\$22 million), followed by biological sciences with nearly \$20 million. Of the 94 bioscience patents issued in the past 6 years, the largest share was in biochemistry, followed by surgical and medical and other medical equipment.

### Recent State Initiatives

There have been no substantial changes in the policy and programming for the biosciences in Wyoming since the last BIO report.

For additional information on Wyoming's bioscience policies and programs, please see <http://www.wyomingbusiness.org>.

## Bioscience Industry Base, 2006

Industry Subsector	Wyoming		United States	
	2006	2001-06 Change	2006	2001-06 Change
<b>Agricultural Feedstock &amp; Chemicals</b>				
Establishments	5	-20.1%	2,183	3.8%
Employment	231	-51.2%	105,846	-6.1%
Location Quotient	1.19		n.a.	
Direct-Effect Employment Multiplier	6.82		11.22	
Total Employment Impact	1,573		1,214,709	
Average Annual Wage	\$67,724		\$67,870	
<b>Drugs &amp; Pharmaceuticals</b>				
Establishments	6	-25.0%	2,654	1.9%
Employment	92	70.4%	317,149	4.0%
Location Quotient	0.16		n.a.	
Direct-Effect Employment Multiplier	2.58		9.92	
Total Employment Impact	237		2,880,242	
Average Annual Wage	\$41,950		\$86,892	
<b>Medical Devices &amp; Equipment</b>				
Establishments	23	-6.4%	15,215	0.3%
Employment	63	-50.5%	422,993	-0.9%
Location Quotient	0.08		n.a.	
Direct-Effect Employment Multiplier	1.57		4.85	
Total Employment Impact	100		1,980,128	
Average Annual Wage	\$33,962		\$59,441	
<b>Research, Testing, &amp; Medical Laboratories</b>				
Establishments	44	8.6%	22,857	32.7%
Employment	347	20.8%	449,991	17.8%
Location Quotient	0.42		n.a.	
Direct-Effect Employment Multiplier	1.82		3.25	
Total Employment Impact	631		1,440,500	
Average Annual Wage	\$65,763		\$71,284	
<b>Total Private Sector</b>				
Establishments	22,406	12.4%	8,575,730	10.2%
Employment	207,390	14.4%	113,463,842	3.1%
Average Annual Wage	\$36,272		\$42,272	

Note: n.a. = metric is not applicable.

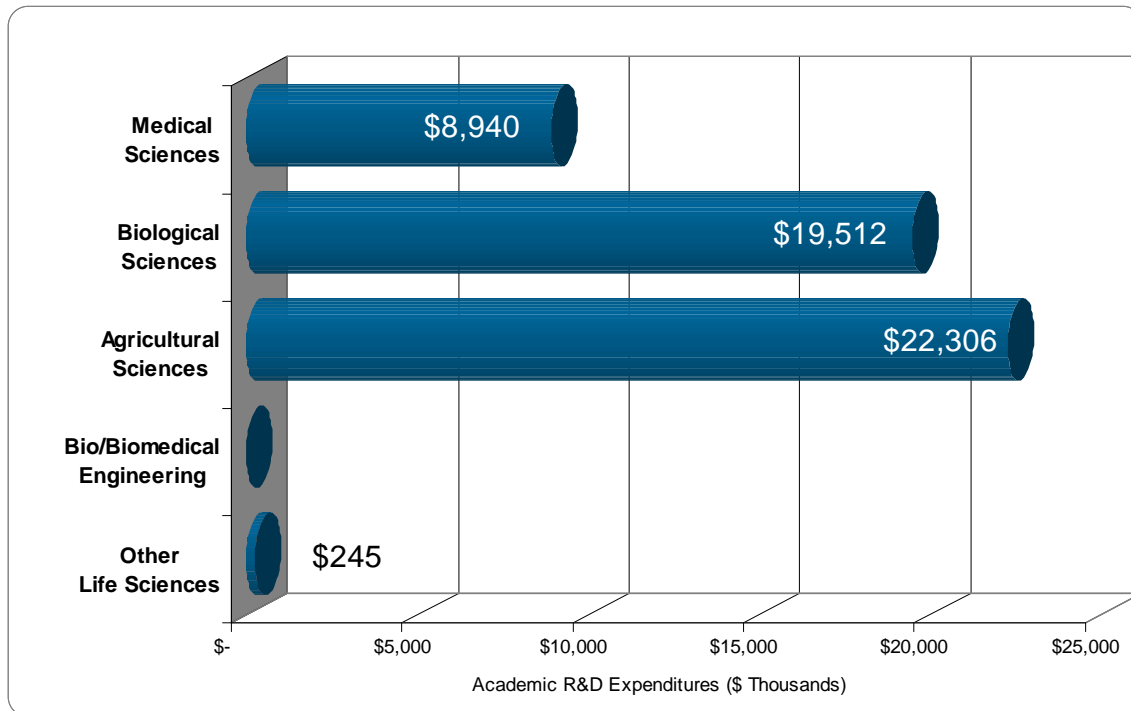
## Additional Bioscience Performance Metrics

### Summary of State Performance in Selected Bioscience-related Metrics

	Wyoming	United States	Rank
Academic R&D Expenditures, FY 2006			
Total (\$ thousands)	\$89,414	\$47,760,402	51
Bioscience R&D (\$ thousands)	\$51,003	\$29,307,628	48
Bioscience Share of Total R&D	57.0%	61.4%	
Bioscience R&D Per Capita	\$99.47	\$98.10	
Change in Bioscience R&D FY 2002–2006	158.7%	36.9%	
NIH Funding, FY 2007			
Total (\$ thousands)	\$7,365	\$21,066,389	52
Per Capita Funding	\$14.09	\$69.84	
Change in Funding, FY 2002–2007	0.6%	11.2%	
Higher Education Degrees in Bioscience Fields, AY 2006	295	143,433	51
Employment in Bioscience-related Occupations, 2006	900	588,520	52
Bioscience Venture Capital Investments, 2002-2007 (\$ millions)	\$0.0	\$51,260.9	47
Bioscience and Related Patents, 2002-2007	94	121,817	48

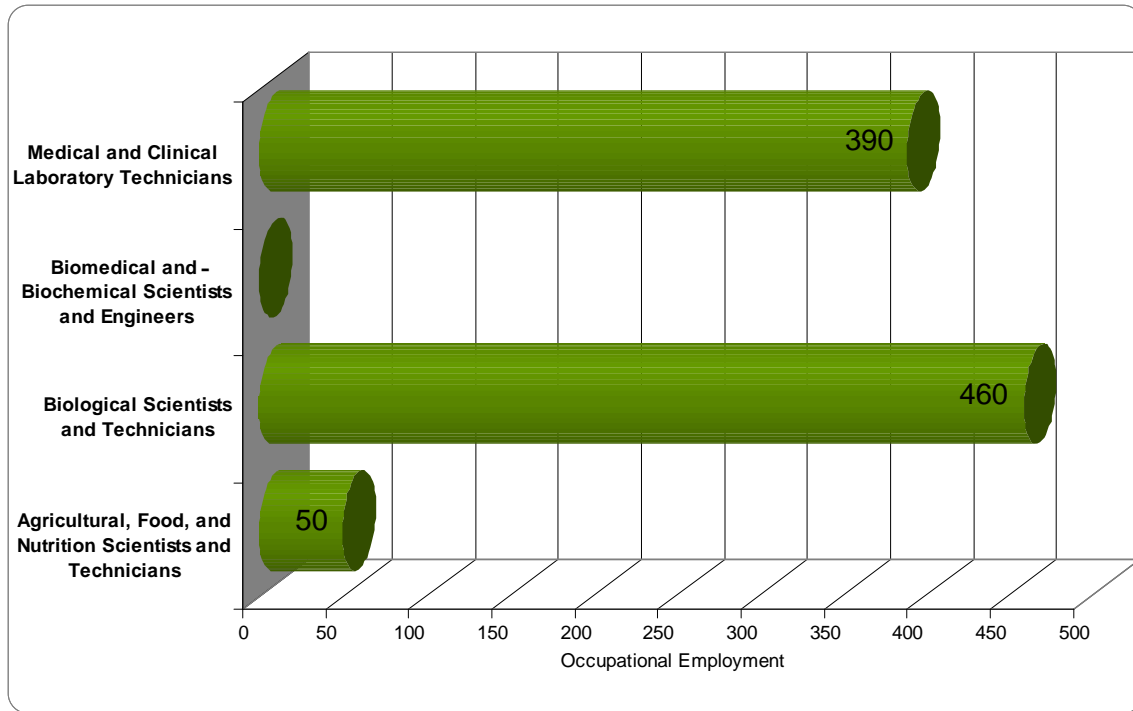
## Bioscience R&D Base

### Bioscience Academic R&D Expenditures in Wyoming, FY 2006

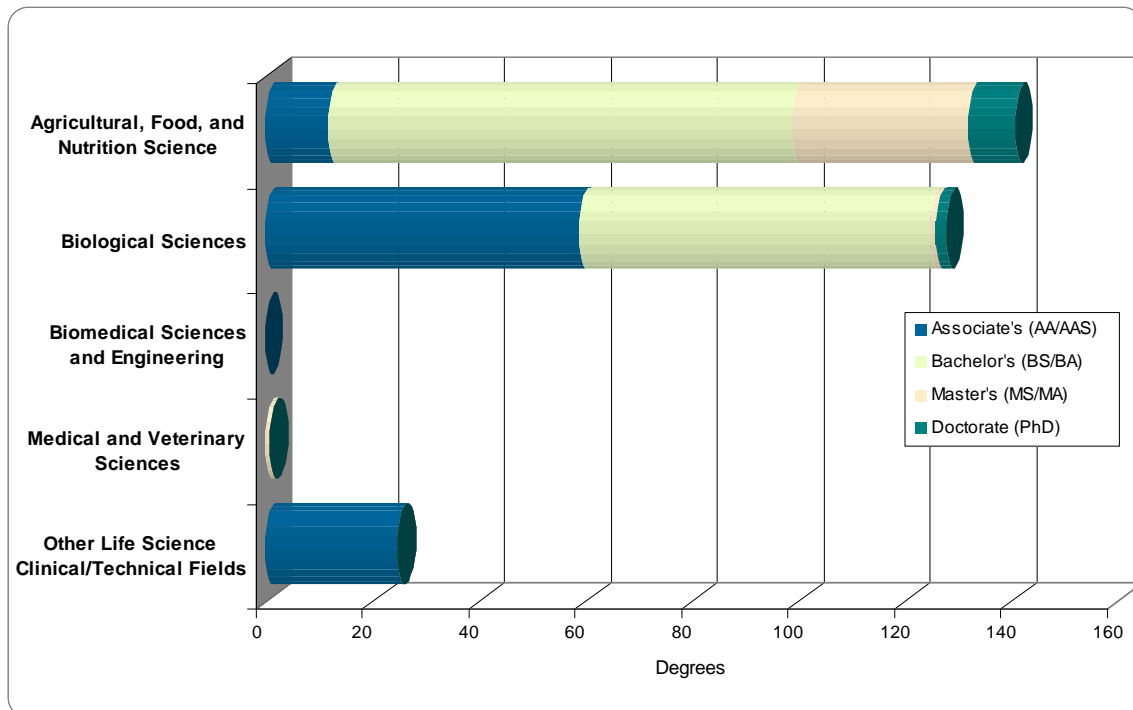


## Bioscience Talent Base

### Bioscience-related Occupational Employment in Wyoming, 2006

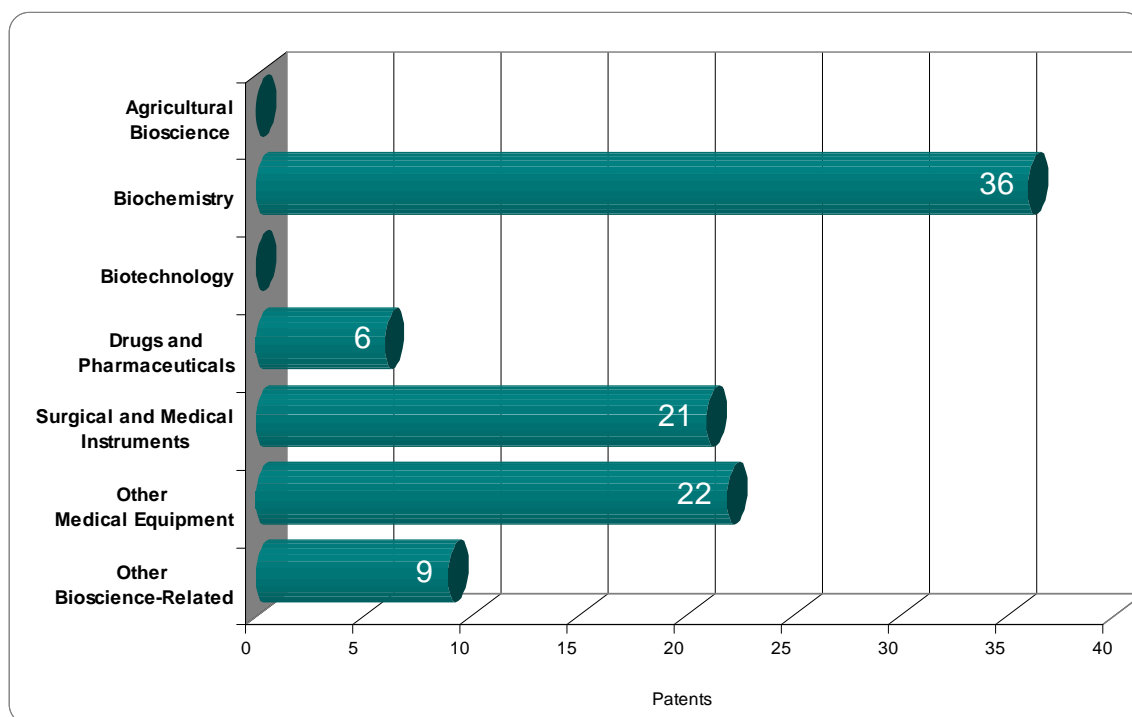


### Bioscience-related Degrees in Wyoming, AY 2006



## Bioscience Patents

### Bioscience-related Patents by Classification Group in Wyoming, 2002–2007



## State Bioscience Contacts

### State Agency Contact:

Bob Jensen  
 CEO  
 Wyoming Business Council  
 214 West 15th Street  
 Cheyenne, WY 82002-0240  
 (307) 777-2800  
[bob.jensen@wybusiness.org](mailto:bob.jensen@wybusiness.org)

### State Bio Association Contact:

n/a

### 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 2006.

**Employment Multipliers:** U.S. Bureau of Economic Analysis RIMS II Employment Multipliers, 2005 (most currently available).

**Academic R&D Expenditures:** National Science Foundation (NSF) Survey of Research and Development Expenditures at Universities and Colleges, 2002 and 2006.

**NIH Funding:** National Institutes of Health – Office of Extramural Research, Award Trends – Dollars Awarded by State, 2002 and 2007.

**Higher Education Degrees:** National Center for Educational Statistics, Integrated Postsecondary Education Data System (IPEDS), 2006.

**Occupational Employment:** U.S. Bureau of Labor Statistics, Occupational Employment Statistics (OES) survey data, 2006.

**Venture Capital:** Thomson Reuters VentureXpert Database, 2002-2007, as of May 1, 2008.

**Patents:** U.S. Patent & Trademark Office data as available from the Thomson Reuters' Delphion Patent Analysis Database, 2002–2007, as of May 1, 2008.

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