

MONTANA

The bioscience subsector with the largest employment in Montana is research, testing, and medical laboratories (485 jobs). Academic bioscience research expenditures of \$111 million in 2006 were led by agricultural (\$62 million) and biological sciences (\$32 million). In funding from the National Institutes of Health, the State outpaced the national growth rate over the 2002–2007 period. The 141 bioscience patents issued during the past 6 years were well diversified across drugs and pharmaceuticals, surgical and medical instruments, biochemistry, and other medical equipment.

Major Industry Developments and Recent Successes

- **GlaxoSmithKline Biologicals** in Hamilton opened a new 130,000-square-foot manufacturing facility, part of a \$137 million expansion project. More than 130 new positions have been filled to date.

Recent State Initiatives

The Montana Department of Commerce expanded an existing technical-assistance program for Small Business Innovation Research applicants into the **Montana Technology Innovation Partnership**, which has the broader mandate of promoting technology commercialization as a viable path to economic development. This program parallels continued applied-research funding available on a matching basis from the **Montana Board of Research and Commercialization Technology**.

Since the last BIO report, **Rocky Mountain Laboratories**, a unit of the National Institute of Allergy and Infectious Diseases, opened a 100,000-square-foot Integrated Research Facility with a Biosafety Level 4 laboratory. The **Skaggs School of Pharmacy** at the University of Montana at Missoula opened a 59,000-square-foot, four-story research annex to an existing building. The independent **McLaughlin Research Institute** was awarded \$2 million from the state (matched in part by the City of Great Falls) to expand its facility, hire additional researchers, and provide opportunities to high school and college students and teachers.

Governor Brian Schweitzer appointed initial board members to the **Montana Capital Investment Board**. This Board has the power to contract with a private investment manager to operate a “fund of funds” focused on investment opportunity in the region and backed by \$60 million in state tax credits.

For additional information on Montana’s bioscience policies and programs, please see http://businessresources.mt.gov/BRD_RCT.asp or <http://www.montanabio.org>.

Bioscience Industry Base, 2006

Industry Subsector	Montana		United States	
	2006	2001-06 Change	2006	2001-06 Change
Agricultural Feedstock & Chemicals				
Establishments	18	24.3%	2,183	3.8%
Employment	270	56.0%	105,846	-6.1%
Location Quotient	0.84		n.a.	
Direct-Effect Employment Multiplier	5.02		11.22	
Total Employment Impact	1,356		1,214,709	
Average Annual Wage	\$53,578		\$67,870	
Drugs & Pharmaceuticals				
Establishments	8	0.0%	2,654	1.9%
Employment	86	11.7%	317,149	4.0%
Location Quotient	0.09		n.a.	
Direct-Effect Employment Multiplier	3.02		9.92	
Total Employment Impact	260		2,880,242	
Average Annual Wage	\$39,330		\$86,892	
Medical Devices & Equipment				
Establishments	64	1.1%	15,215	0.3%
Employment	397	24.2%	422,993	-0.9%
Location Quotient	0.31		n.a.	
Direct-Effect Employment Multiplier	2.16		4.85	
Total Employment Impact	857		1,980,128	
Average Annual Wage	\$34,062		\$59,441	
Research, Testing, & Medical Laboratories				
Establishments	88	36.5%	22,857	32.7%
Employment	485	35.4%	449,991	17.8%
Location Quotient	0.35		n.a.	
Direct-Effect Employment Multiplier	2.04		3.25	
Total Employment Impact	991		1,440,500	
Average Annual Wage	\$43,411		\$71,284	
Total Private Sector				
Establishments	38,879	1.8%	8,575,730	10.2%
Employment	346,394	12.9%	113,463,842	3.1%
Average Annual Wage	\$29,386		\$42,272	

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

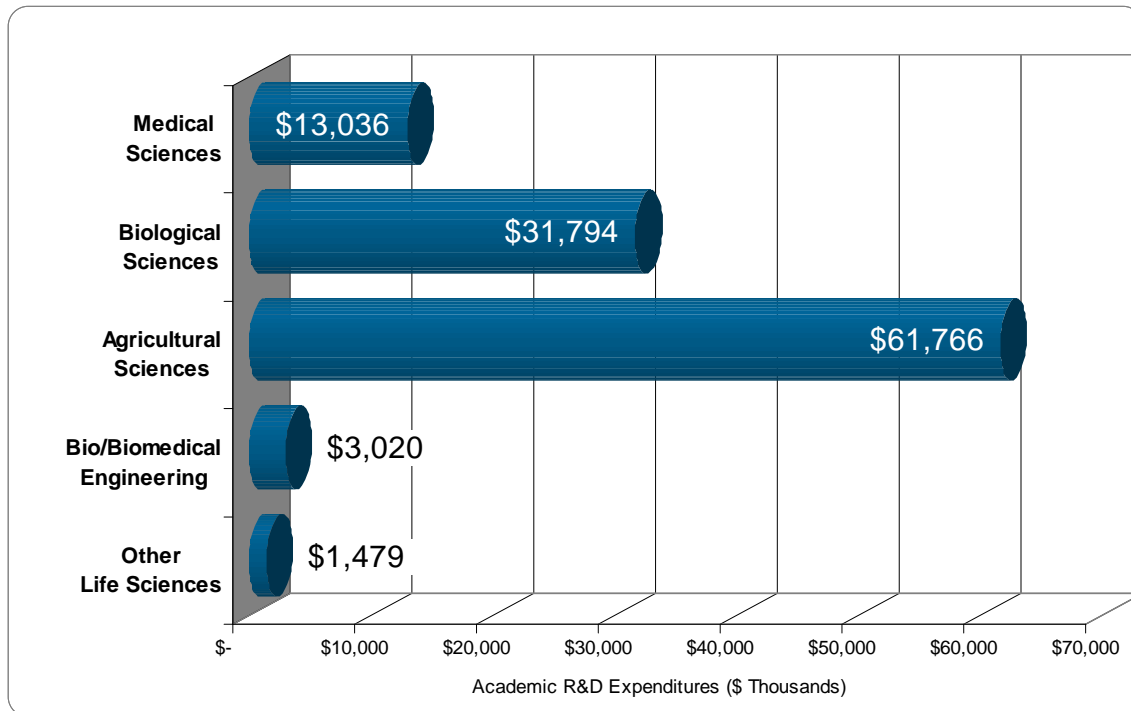
Additional Bioscience Performance Metrics

Summary of State Performance in Selected Bioscience-related Metrics

	Montana	United States	Rank
Academic R&D Expenditures, FY 2006			
Total (\$ thousands)	\$172,622	\$47,760,402	42
Bioscience R&D (\$ thousands)	\$111,095	\$29,307,628	39
Bioscience Share of Total R&D	64.4%	61.4%	
Bioscience R&D Per Capita	\$117.34	\$98.10	
Change in Bioscience R&D FY 2002–2006	49.5%	36.9%	
NIH Funding, FY 2007			
Total (\$ thousands)	\$34,707	\$21,066,389	43
Per Capita Funding	\$36.23	\$69.84	
Change in Funding, FY 2002–2007	35.5%	11.2%	
Higher Education Degrees in Bioscience Fields, AY 2006	436	143,433	49
Employment in Bioscience-related Occupations, 2006	2,060	588,520	43
Bioscience Venture Capital Investments, 2002-2007 (\$ millions)	\$0.0	\$51,260.9	47
Bioscience and Related Patents, 2002-2007	141	121,817	46

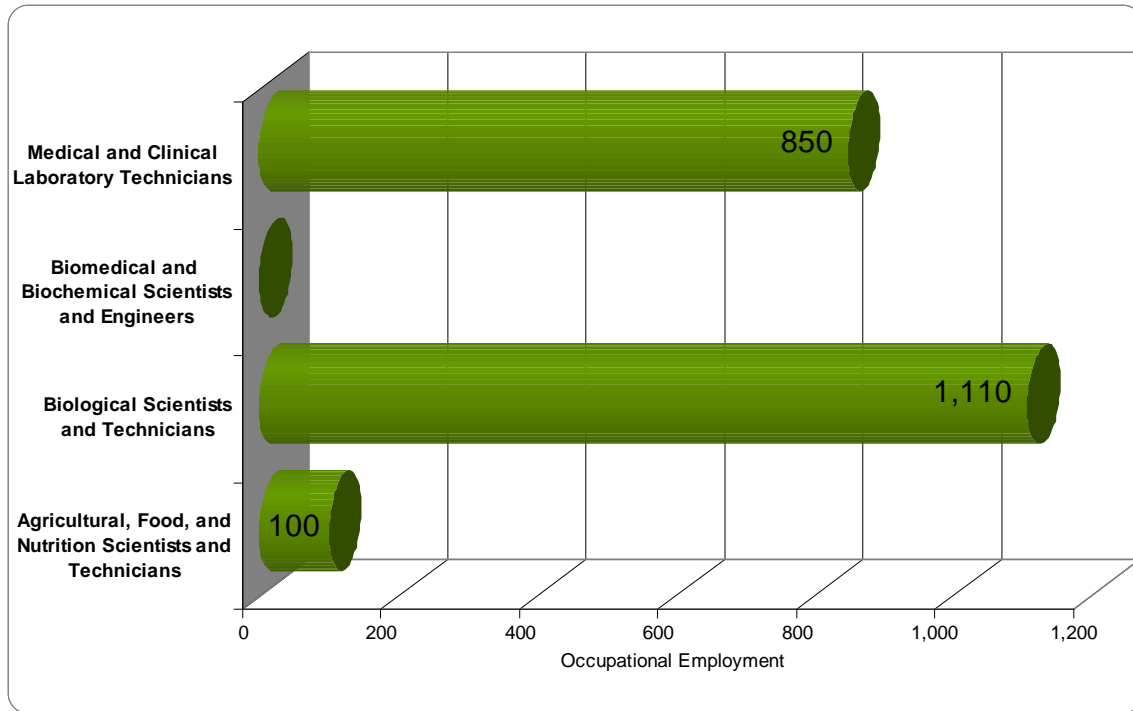
Bioscience R&D Base

Bioscience Academic R&D Expenditures in Montana, FY 2006

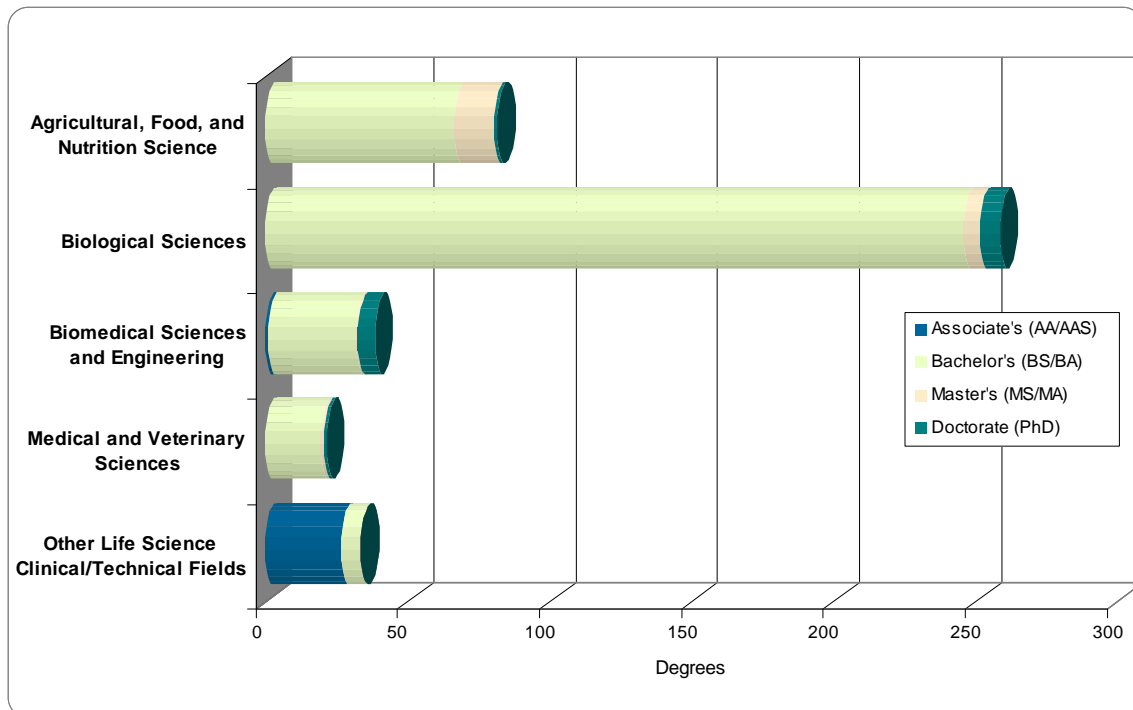


Bioscience Talent Base

Bioscience-related Occupational Employment in Montana, 2006

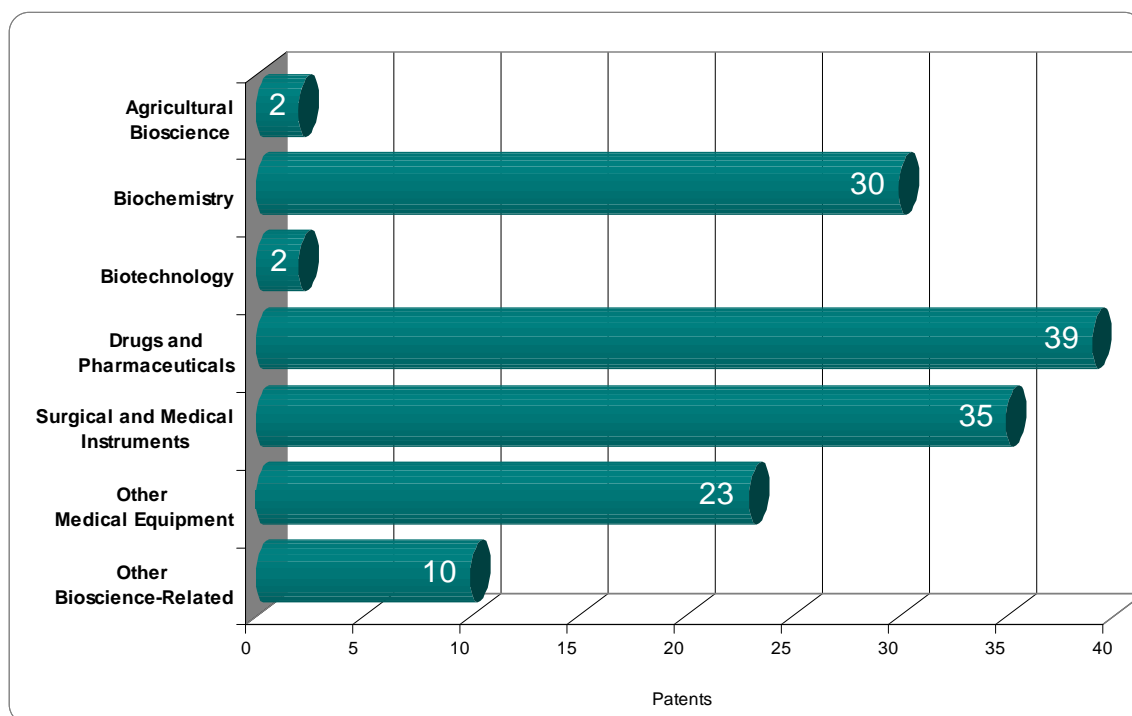


Bioscience-related Degrees in Montana, AY 2006



Bioscience Patents

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



State Bioscience Contacts

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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 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.