



Overview and Summary of Recent Initiatives

Montana recognizes interest in agricultural, environmental, and human applications of the biosciences through a grant program operated by the **Montana Board of Research and Commercialization Technology**. Since the last BIO report, Montana has created the **Montana BioScience Alliance**; opened two wet-lab-capable incubators; and moved toward a venture-capital program supported by the **Montana Associated Technology Roundtables**, a multisector technology council. The BioScience Alliance has received a \$50,000 award from the U.S. Economic Development Administration, matched with \$50,000 from the state, to support various activities related to developing a bioscience cluster pursuant to a 2003 roadmap.

Building Bioscience R&D Capacity

Recent state investments in facilities

Montana State University has opened a 40,000-square-foot **Molecular Biosciences Building** and has broken ground on a 73,000-square-foot structure for chemistry and biochemistry research. The University of Montana has broken ground on a 59,000-square-foot, \$14 million research addition to the College of Health Professions and Biological Sciences. It has also received \$12 million for a new **Bio-Science Building**.

Encouraging Academic/Industrial Interaction

The Montana Board of Research and Commercialization Technology, a unit of the Department of Commerce, offers matching grants or loans to encourage university/industry collaborations with a clear path to commercialization. The program functions over multiple disciplines including the biosciences. Projects must be matched at least 1:4, but the average match has been 1.3:1. The typical grant is \$100,000 per year for up to 2 years, with a range of \$20,000 to \$500,000. As of October 2005, the cumulative total awarded was \$22.3 million, and the current year program is funded at \$2.6 million. Private laboratories or research centers are defined as eligible applicants, making them eligible for the same grants and loans as college- or university-based centers.

Moving Technology into the Marketplace

Supporting bioscience entrepreneurs and emerging companies

The **TechRanch** incubator (see below) also operates as a commercialization center assisting entrepreneurs who may not be tenants.

Making Capital Available

Pre-seed and seed capital

TechRanch started and manages **Bridger Private Capital Network**, which entertains presentations from bioscience companies.

Venture capital

Montana has passed (SB 133 of 2005) but has not yet provided administrative funding for the **Capital Formation Act**, a \$60 million contingent tax credit-backed fund of funds intended to attract out-of-state venture-capital investment partnerships.

Providing Space for Bioscience Companies

Incubators

Montana has two bioscience incubators:

- **TechRanch**, a 10,000-square-foot facility in Bozeman at the Advanced Technology Park (below)
- **Montana Technology Enterprise Center**, a 32,000-square-foot former food warehouse near the campus of the University of Montana at Missoula.

Bioscience research parks

Montana State University's **Advanced Technology Park** in Bozeman, currently housing 43 companies in 14 buildings over 74 acres, includes both academic and industrial bioscience tenants.

Ravalli County, home to the **National Institutes of Health (NIH)/National Institute of Allergy and Infectious Diseases (NIAID) Rocky Mountain Laboratories** in Hamilton, has begun planning a research park and incubator that could serve spin-outs from the Laboratories, in the pattern of Corixa, which was recently acquired by SmithKline.

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The Montana BioScience Alliance serves as a hub for Montana's biotechnology companies, entrepreneurs, laboratories, hospitals, clinics, and universities to commercialize, grow, and sustain globally competitive bioscience companies.

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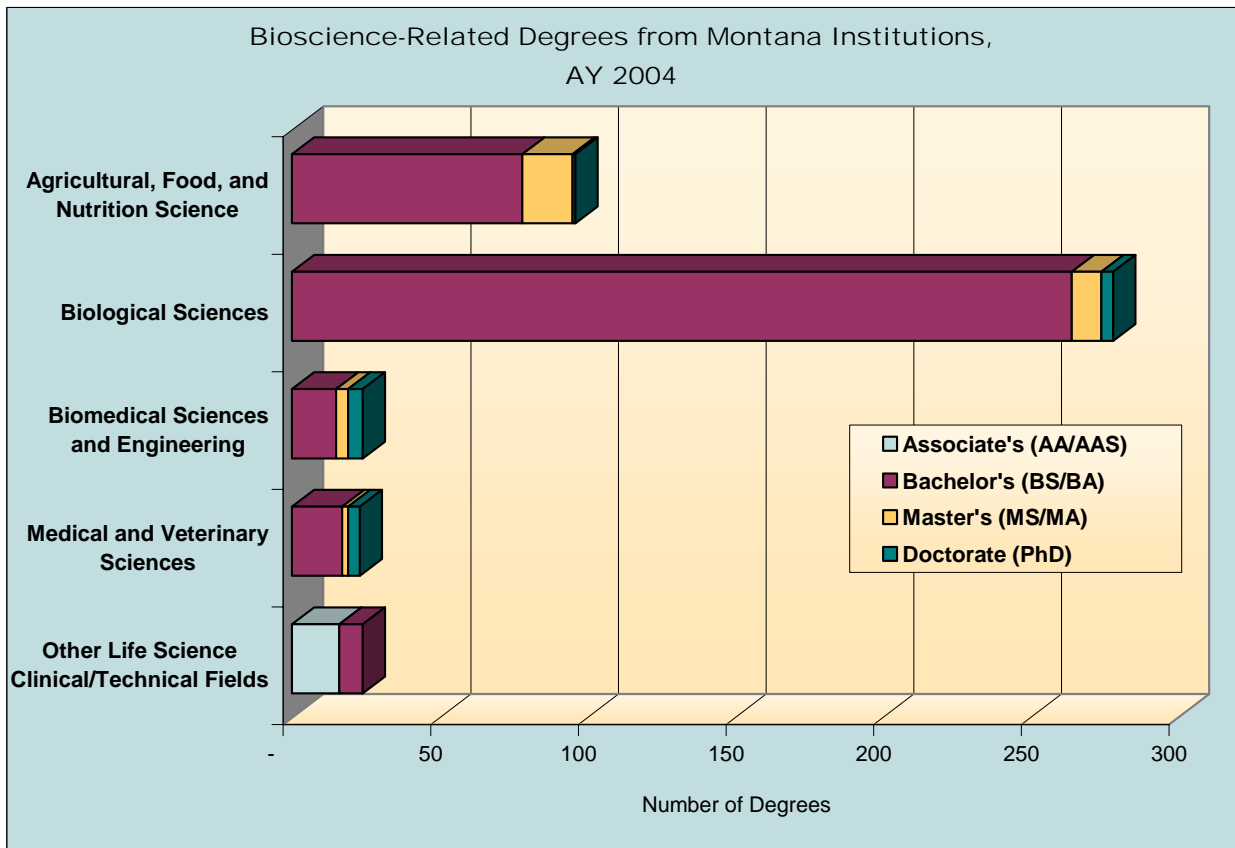
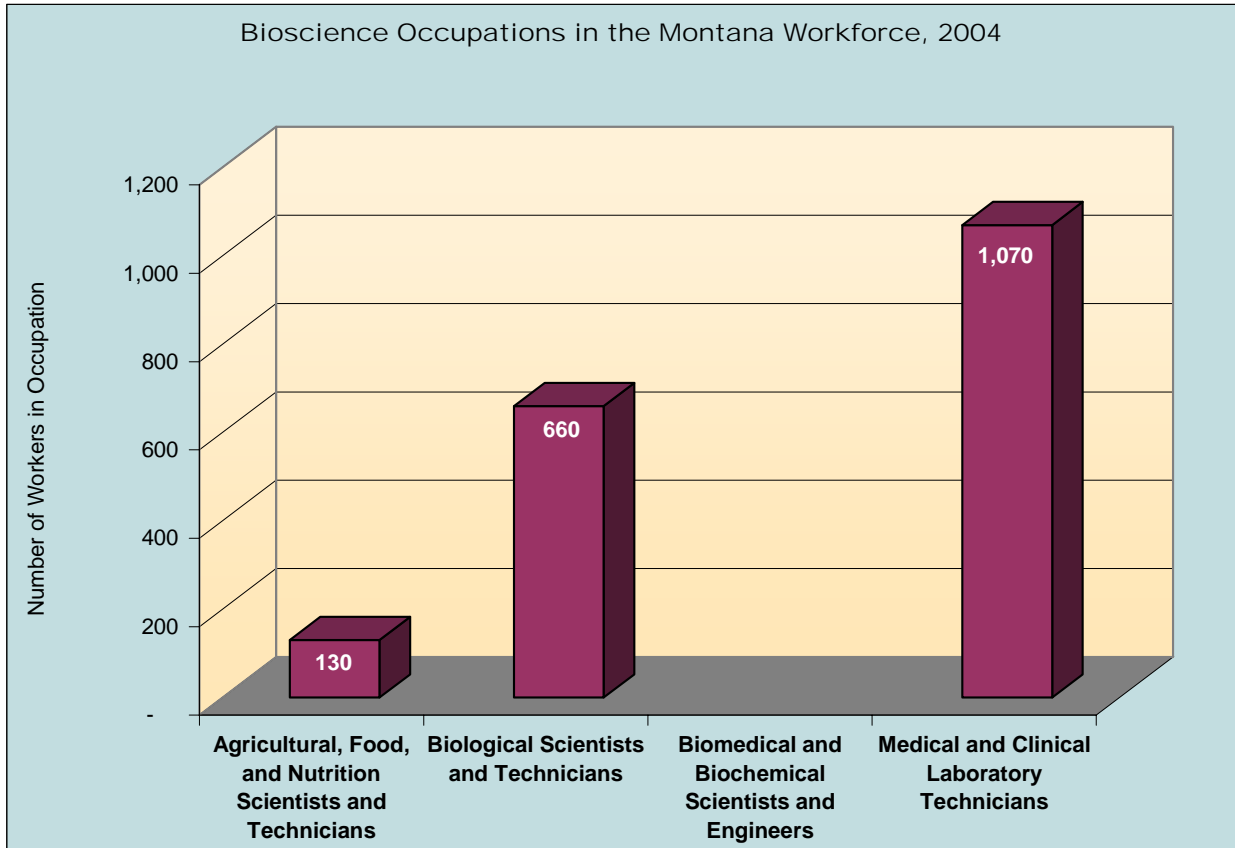
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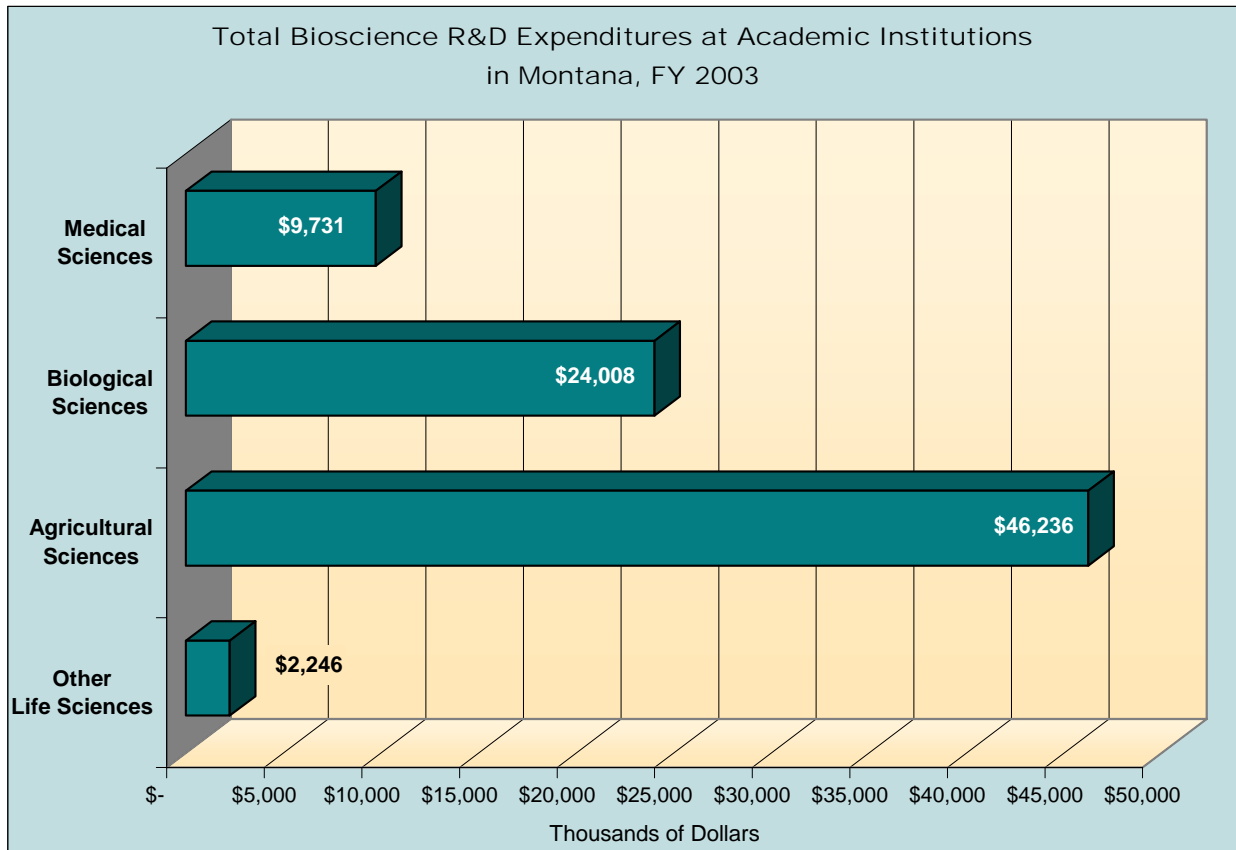
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Industry Subsector	Montana	United States
Agricultural Feedstock & Chemicals		
Establishments 2004	15	2,111
2001-2004 Establishment % Change	3.6%	0.4%
Employment 2004	156	104,893
2001-2004 Employment % Change	-9.8%	-6.9%
Share of U.S. Employment	0.1%	100.0%
Location Quotient	0.50	n.a.
Average Annual Wage 2004	\$38,325	\$63,383
Direct-Effect Employment Multiplier	5.12	10.91
Total Employment Impact	800	1,212,094
Drugs & Pharmaceuticals		
Establishments 2004	7	2,589
2001-2004 Establishment % Change	-12.5%	-0.6%
Employment 2004	83	313,207
2001-2004 Employment % Change	8.0%	2.7%
Share of U.S. Employment	0.0%	100.0%
Location Quotient	0.09	n.a.
Average Annual Wage 2004	\$33,080	\$79,303
Direct-Effect Employment Multiplier	2.85	9.51
Total Employment Impact	237	2,731,321
Medical Devices & Equipment		
Establishments 2004	69	15,190
2001-2004 Establishment % Change	9.0%	0.2%
Employment 2004	370	411,460
2001-2004 Employment % Change	15.9%	-3.6%
Share of U.S. Employment	0.1%	100.0%
Location Quotient	0.30	n.a.
Average Annual Wage 2004	\$32,482	\$56,449
Direct-Effect Employment Multiplier	1.93	4.56
Total Employment Impact	715	1,817,705
Research, Testing, & Medical Laboratories		
Establishments 2004	78	20,565
2001-2004 Establishment % Change	20.5%	19.4%
Employment 2004	407	413,550
2001-2004 Employment % Change	13.6%	8.2%
Share of U.S. Employment	0.1%	100.0%
Location Quotient	0.33	n.a.
Average Annual Wage 2004	\$42,051	\$65,414
Direct-Effect Employment Multiplier	1.93	3.15
Total Employment Impact	786	1,272,936
TOTAL PRIVATE SECTOR		
Establishments 2004	39,600	8,156,137
2001-2004 Establishment % Change	3.7%	4.8%
Employment 2004	323,817	109,249,195
2001-2004 Employment % Change	5.6%	-0.7%
Share of U.S. Employment	0.3%	100.0%
Location Quotient	n.a.	n.a.
Average Annual Wage 2004	\$26,608	\$39,003

Source: Battelle calculations -- based on Bureau of Labor Statistics QCEW data from the Minnesota Implan Group, RIMS II Employment Multipliers from the Bureau of Economic Analysis, and the Census Bureau's Economic Census.

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





	Montana	United States	Rank
University R&D Expenditures, FY 2003			
Total (\$ thousands)	\$141,220	\$40,104,621	42
Life Science R&D (\$ thousands)	\$85,277	\$24,062,088	40
Percent of Total R&D	60.4%	60.0%	
Life Sciences Per Capita	\$92.93	\$82.74	
Change in Life Sciences FY 1999–2003	58.1%	52.7%	
NIH Support to Institutions, FY 2004			
Total (\$ thousands)	\$34,052	\$22,556,459	45
Per Capita Expenditures	\$37.11	\$77.56	
Change in Expenditures FY 2000–2004	140.5%	53.2%	
Higher Education Degrees in Bioscience Fields, AY 2004			
	445	111,329	46
Bioscience Occupations in the Workforce, 2004			
	1,860	616,140	44