



Overview and Summary of Recent Initiatives

The biosciences are among several sectors targeted for development in Nevada by the **Center for Entrepreneurship and Technology**—a technology council attached to **the Nevada Commission on Economic Development**. Since the last BIO report, significant new capital resources and some start-up funds were provided for bioscience projects in both Reno and Las Vegas.

Building Bioscience R&D Capacity

Recent state investments in facilities

The Capital Improvement Bill of 2005 (SB 524) included the following:

- \$5.4 million toward a University of Nevada at Reno (UNR) **Biotechnology and Genomics Research Facility** in Reno.
- \$10 million toward construction costs of a new building to be operated in partnership between UNR and the independent **Nevada Cancer Institute**, which recently opened a privately financed 142,000-square-foot, \$54 million facility. The new joint facility is also authorized to use full recovery of indirect costs associated with grants made to the joint program.
- An additional \$15.8 million toward the University of Nevada at Las Vegas (UNLV) **Science, Engineering and Technology Building**.

There has also been state support for buildout of the new UNLV **Shadow Lane Campus**, which gives UNLV presence at the 214-acre Las Vegas Medical District, home to the UNR-affiliated University Medical Center, the county health department, and other health services. Shadow Lane will include research facilities for the School of Dental Medicine and a new UNLV Biotechnology Center.

Research programs

SB 524 also included \$10.15 million for start-up research expenditures at the cancer institute. Separately the state provided \$800,000 for start-up expenditures at the **Lou Ruvo Center for Alzheimer's Care and Research**, which opened a privately donated \$35 million building at the Union Park downtown redevelopment area.

Encouraging Academic/Industrial Interaction

All three elements of the university system (UNR, UNLV, and the Desert Research Institute [DRI]) have access to state appropriations for an internal **Applied Research Initiative** that makes matching grants up to \$50,000 for 1-year projects contingent on matching by federal or industrial sources.

Providing Space for Bioscience Companies

Incubators

Dandini Research Park (see below) is conducting a feasibility study for a mixed-use, wet-lab incubator that would target the biosciences, including agricultural and environmental uses.

Bioscience research parks

Under development

Dandini Research Park is a 470-acre park being developed by the university-affiliated DRI at its secondary campus in Reno.

Harry Reid UNLV Technology Park is planned for 115 acres deeded to the university by the federal government in the southwest quadrant of Las Vegas.

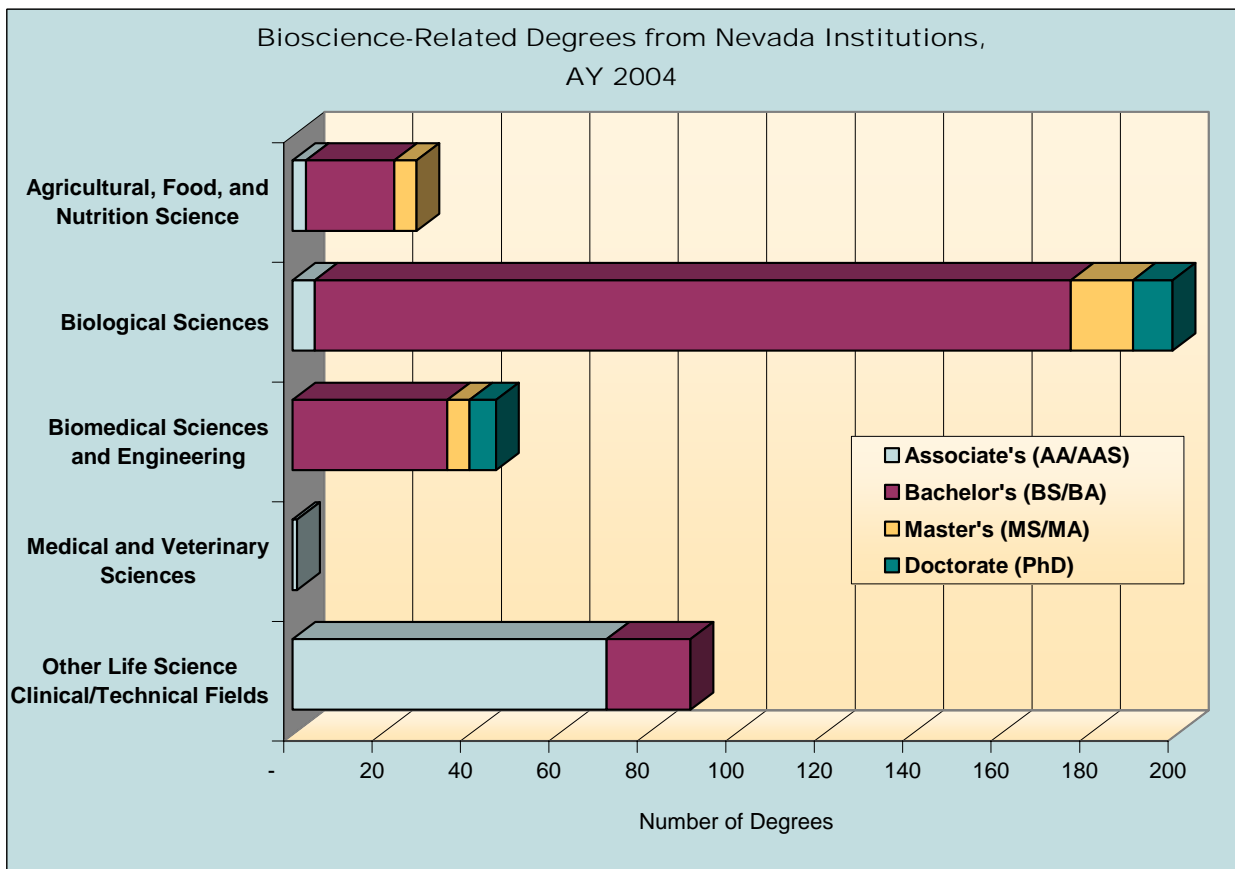
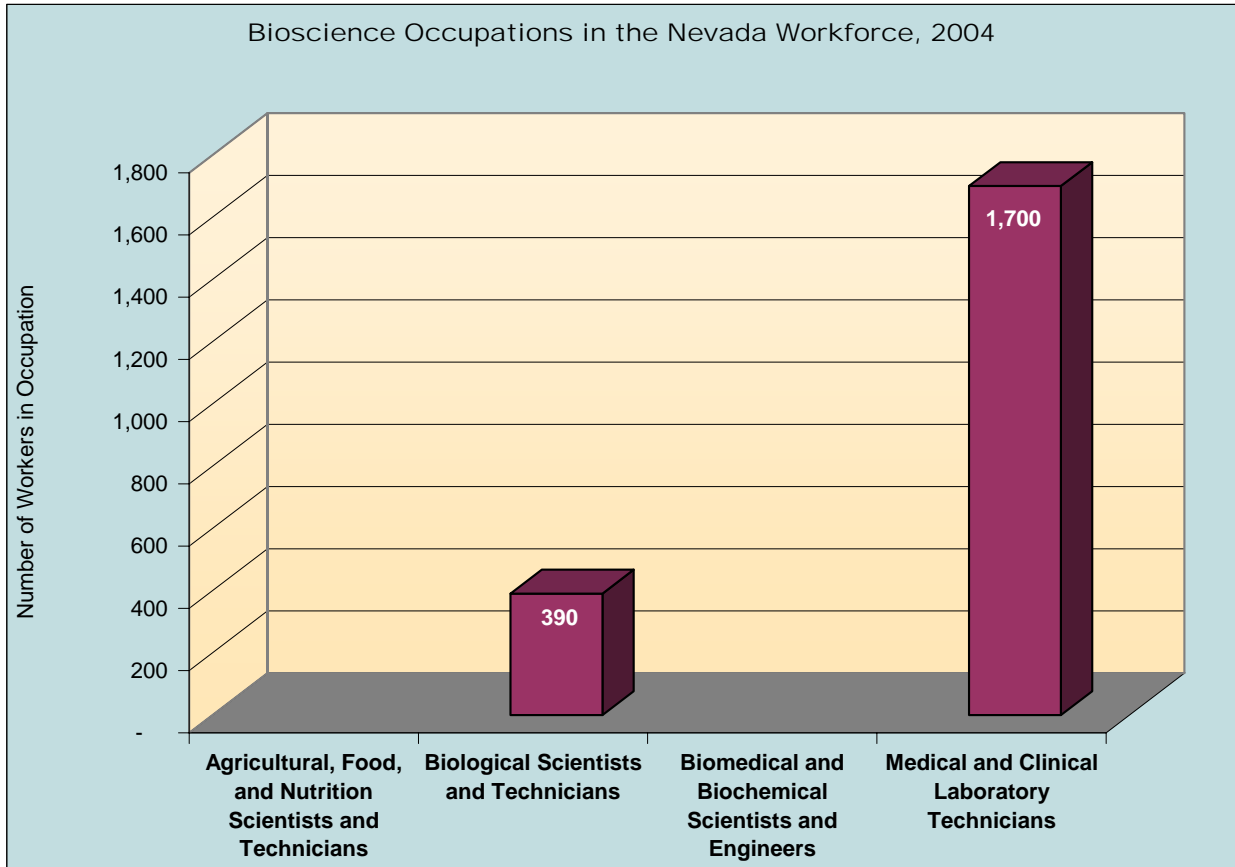
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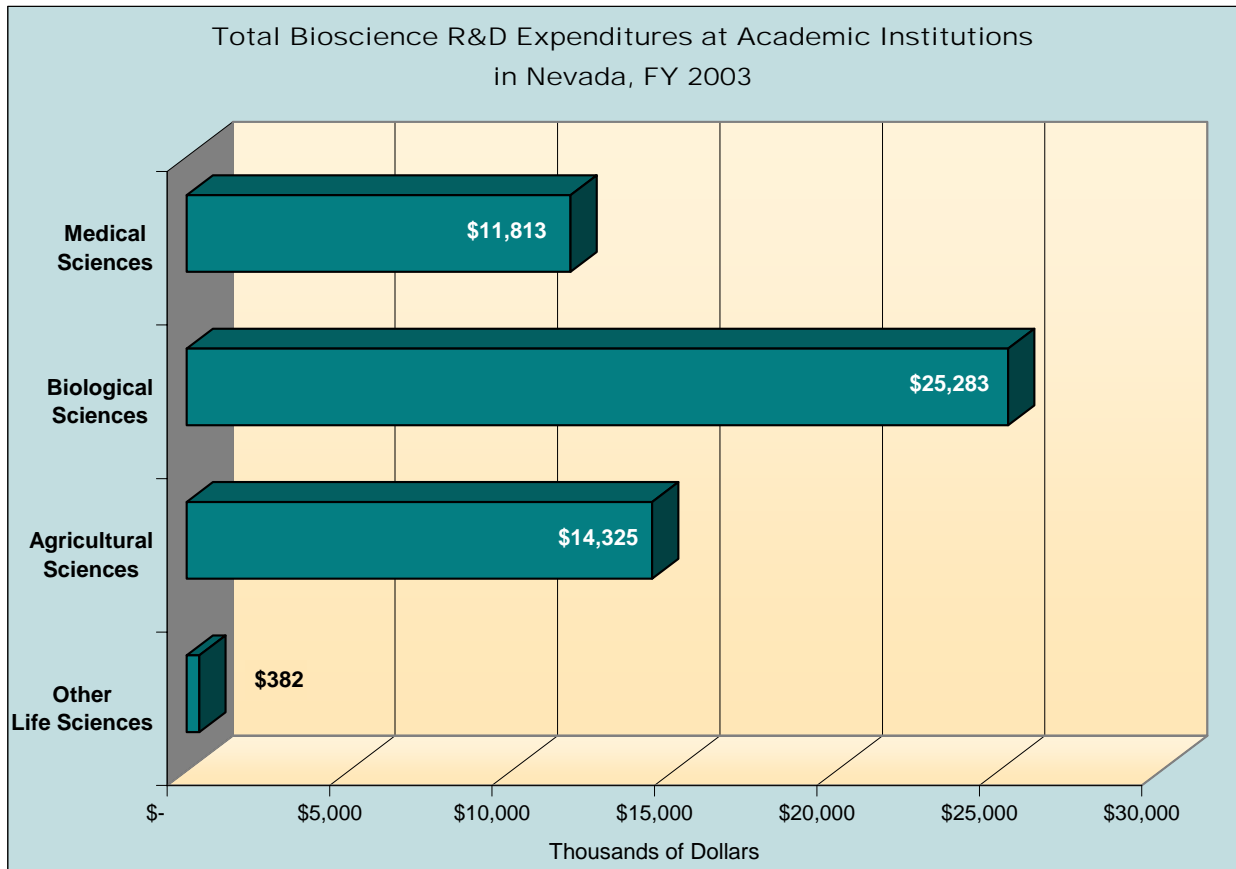
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Industry Subsector	Nevada	United States
Agricultural Feedstock & Chemicals		
Establishments 2004	7	2,111
2001-2004 Establishment % Change	20.4%	0.4%
Employment 2004	93	104,893
2001-2004 Employment % Change	33.8%	-6.9%
Share of U.S. Employment	0.1%	100.0%
Location Quotient	0.10	n.a.
Average Annual Wage 2004	\$59,376	\$63,383
Direct-Effect Employment Multiplier	3.86	10.91
Total Employment Impact	359	1,212,094
Drugs & Pharmaceuticals		
Establishments 2004	20	2,589
2001-2004 Establishment % Change	17.6%	-0.6%
Employment 2004	408	313,207
2001-2004 Employment % Change	19.0%	2.7%
Share of U.S. Employment	0.1%	100.0%
Location Quotient	0.14	n.a.
Average Annual Wage 2004	\$40,633	\$79,303
Direct-Effect Employment Multiplier	3.01	9.51
Total Employment Impact	1,229	2,731,321
Medical Devices & Equipment		
Establishments 2004	109	15,190
2001-2004 Establishment % Change	5.9%	0.2%
Employment 2004	1,138	411,460
2001-2004 Employment % Change	-24.6%	-3.6%
Share of U.S. Employment	0.3%	100.0%
Location Quotient	0.30	n.a.
Average Annual Wage 2004	\$42,024	\$56,449
Direct-Effect Employment Multiplier	2.16	4.56
Total Employment Impact	2,462	1,817,705
Research, Testing, & Medical Laboratories		
Establishments 2004	188	20,565
2001-2004 Establishment % Change	29.9%	19.4%
Employment 2004	3,095	413,550
2001-2004 Employment % Change	18.1%	8.2%
Share of U.S. Employment	0.7%	100.0%
Location Quotient	0.81	n.a.
Average Annual Wage 2004	\$52,841	\$65,414
Direct-Effect Employment Multiplier	2.08	3.15
Total Employment Impact	6,432	1,272,936
TOTAL PRIVATE SECTOR		
Establishments 2004	62,499	8,156,137
2001-2004 Establishment % Change	25.7%	4.8%
Employment 2004	1,010,256	109,249,195
2001-2004 Employment % Change	9.7%	-0.7%
Share of U.S. Employment	0.9%	100.0%
Location Quotient	n.a.	n.a.
Average Annual Wage 2004	\$36,110	\$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.





	Nevada	United States	Rank
University R&D Expenditures, FY 2003			
Total (\$ thousands)	\$154,515	\$40,104,621	41
Life Science R&D (\$ thousands)	\$51,803	\$24,062,088	46
Percent of Total R&D	33.5%	60.0%	
Life Sciences Per Capita	\$23.11	\$82.74	
Change in Life Sciences FY 1999-2003	144.3%	52.7%	
NIH Support to Institutions, FY 2004			
Total (\$ thousands)	\$20,576	\$22,556,459	47
Per Capita Expenditures	\$9.18	\$77.56	
Change in Expenditures FY 2000-2004	35.2%	53.2%	
Higher Education Degrees in Bioscience Fields, AY 2004			
	364	111,329	48
Bioscience Occupations in the Workforce, 2004			
	2,090	616,140	41