

NEW HAMPSHIRE

New Hampshire has an employment specialization in medical devices and equipment (location quotient of 1.65), which is also growing faster than the national sector. Academic bioscience research expenditures in 2006 were \$165 million, of which \$135 million was in medical sciences. In the past 6 years, \$192 million in bioscience venture capital was invested, placing New Hampshire well above its population rank. Most venture funds were invested in the medical therapeutics sector, followed by human biotechnology and medical diagnostics. Surgical and medical equipment accounted for more than 40 percent of the 644 bioscience patents granted in the same period.

Major Industry Developments and Recent Successes

- In 2007, **Lonza Biologics** launched a \$300 million expansion of its facility in Portsmouth. The facility will house cutting-edge biotherapeutics manufacturing technologies. Employment is expected to increase by 350.
- **Stryker Biotech**, a division of Michigan-based Stryker Corporation, just completed a \$100 million expansion of its facility in Lebanon.
- **Merck** acquired New Hampshire-based **GlycoFi** for \$400 million. GlycoFi was founded in 2000 and had about 55 employees at the time it was acquired.

Recent State Initiatives

New Hampshire passed legislation in 2007 establishing an R&D tax credit aimed at encouraging innovative companies to create jobs. Firms can receive a credit of up to 5 percent of the business enterprise tax due for qualified manufacturing R&D expenditures. The Legislature has designated \$1 million for each of the next five fiscal years to be available to fund the credit.

Legislation reinstating New Hampshire's Job Training Fund also was passed in 2007. Up to \$1 million in matching funds will be available in 2008 to train new or existing workers. Several bioscience companies have received grant awards.

Education and business leaders came together to form the **Eastern Region Partnership (ERP)**, one of five education-business partnerships in New Hampshire. ERP has worked with school districts, postsecondary institutions, and industry to create a career pathway for biotechnology and health science careers. It includes courses at the middle school, high school, and college levels.

New Hampshire continues to fund business-university collaborative research projects with its **Granite State Technology Innovation Grant Program**, administered by the New Hampshire Innovation Research Center. The state appropriated \$680,000 for the grant program in both FY 2007 and FY 2008.

For additional information on New Hampshire's bioscience policies and programs, please see <http://www.nheconomy.com> and <http://www.nhbiotech.org>.

Bioscience Industry Base, 2006

Industry Subsector	New Hampshire		United States	
	2006	2001-06 Change	2006	2001-06 Change
Agricultural Feedstock & Chemicals				
Establishments	2	-51.6%	2,183	3.8%
Employment	11	-94.5%	105,846	-6.1%
Location Quotient	0.02		n.a.	
Direct-Effect Employment Multiplier	5.96		11.22	
Total Employment Impact	63		1,214,709	
Average Annual Wage	\$62,158		\$67,870	
Drugs & Pharmaceuticals				
Establishments	11	37.5%	2,654	1.9%
Employment	829	22.1%	317,149	4.0%
Location Quotient	0.55		n.a.	
Direct-Effect Employment Multiplier	3.85		9.92	
Total Employment Impact	3,195		2,880,242	
Average Annual Wage	\$58,531		\$86,892	
Medical Devices & Equipment				
Establishments	93	14.2%	15,215	0.3%
Employment	3,321	14.7%	422,993	-0.9%
Location Quotient	1.65		n.a.	
Direct-Effect Employment Multiplier	2.78		4.85	
Total Employment Impact	9,216		1,980,128	
Average Annual Wage	\$54,921		\$59,441	
Research, Testing, & Medical Laboratories				
Establishments	99	-7.0%	22,857	32.7%
Employment	924	-13.4%	449,991	17.8%
Location Quotient	0.43		n.a.	
Direct-Effect Employment Multiplier	2.07		3.25	
Total Employment Impact	1,914		1,440,500	
Average Annual Wage	\$60,786		\$71,284	
Total Private Sector				
Establishments	46,263	4.7%	8,575,730	10.2%
Employment	541,471	2.0%	113,463,842	3.1%
Average Annual Wage	\$43,022		\$42,272	

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

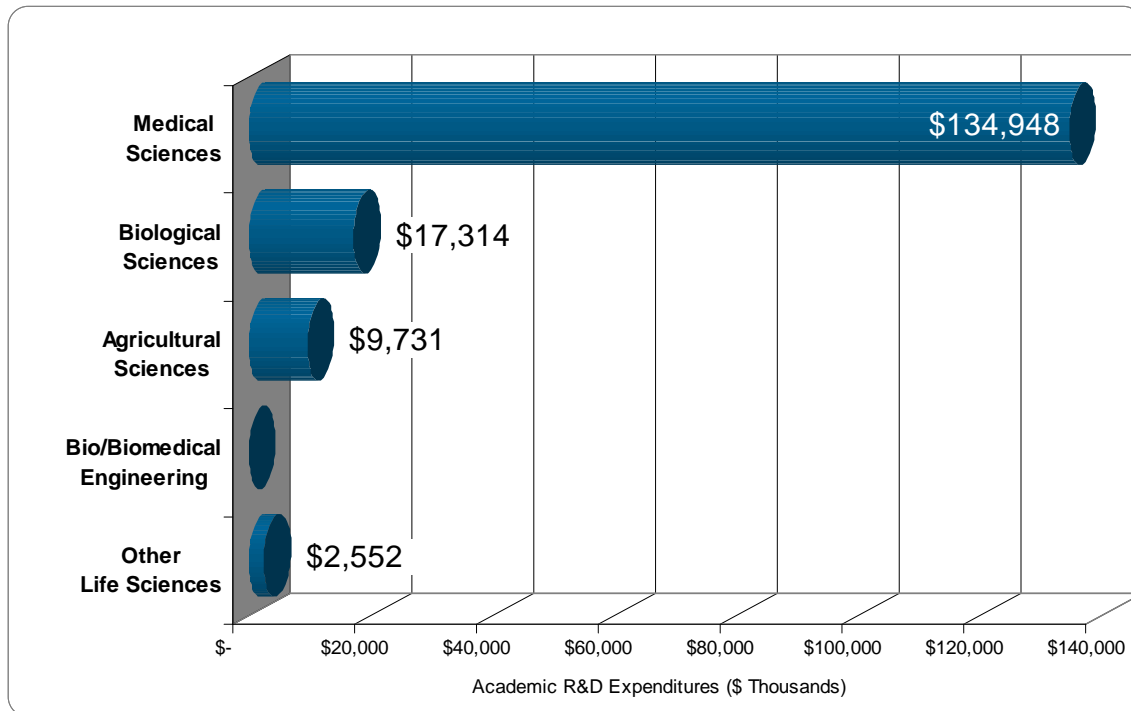
Additional Bioscience Performance Metrics

Summary of State Performance in Selected Bioscience-related Metrics

	New Hampshire	United States	Rank
Academic R&D Expenditures, FY 2006			
Total (\$ thousands)	\$315,394	\$47,760,402	35
Bioscience R&D (\$ thousands)	\$164,545	\$29,307,628	37
Bioscience Share of Total R&D	52.2%	61.4%	
Bioscience R&D Per Capita	\$125.43	\$98.10	
Change in Bioscience R&D FY 2002–2006	47.5%	36.9%	
NIH Funding, FY 2007			
Total (\$ thousands)	\$90,044	\$21,066,389	34
Per Capita Funding	\$68.43	\$69.84	
Change in Funding, FY 2002–2007	12.0%	11.2%	
Higher Education Degrees in Bioscience Fields, AY 2006	592	143,433	43
Employment in Bioscience-related Occupations, 2006	1,090	588,520	50
Bioscience Venture Capital Investments, 2002-2007 (\$ millions)	\$192.4	\$51,260.9	28
Bioscience and Related Patents, 2002-2007	644	121,817	35

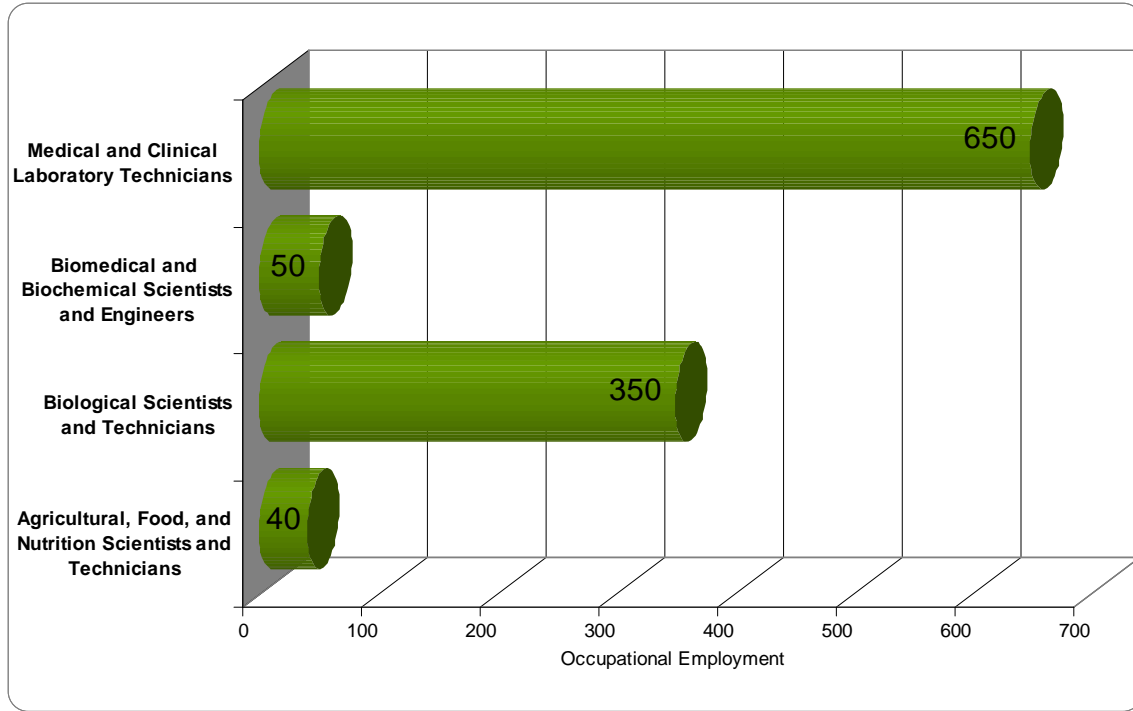
Bioscience R&D Base

Bioscience Academic R&D Expenditures in New Hampshire, FY 2006

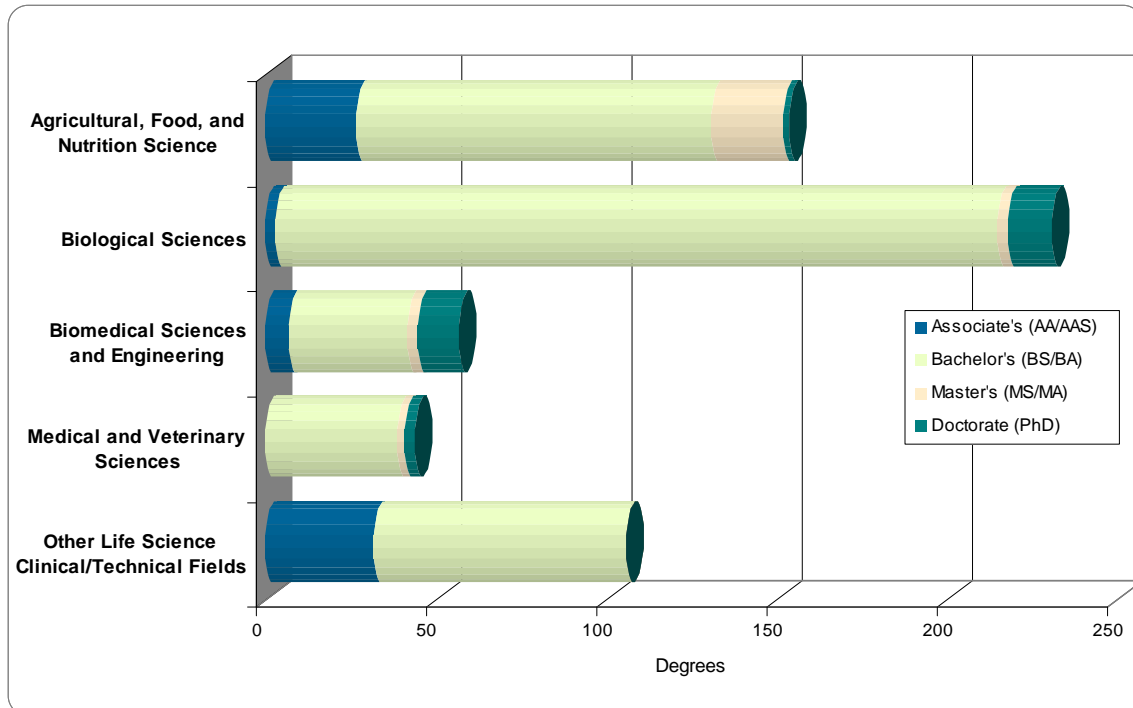


Bioscience Talent Base

Bioscience-related Occupational Employment in New Hampshire, 2006

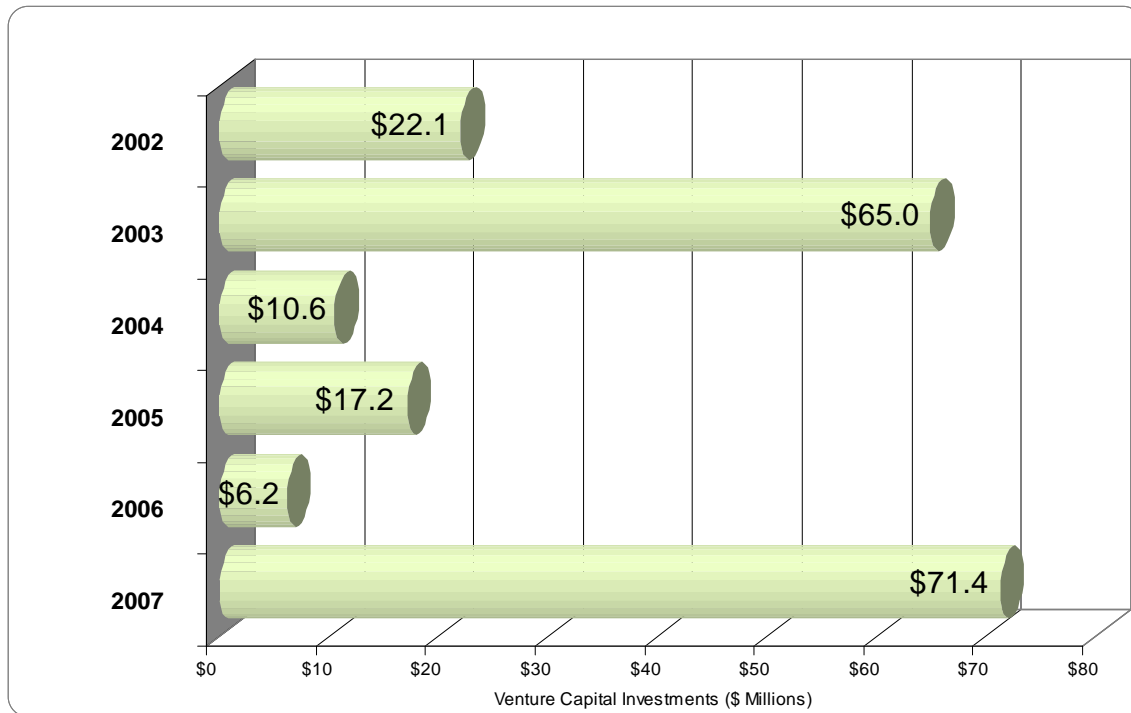


Bioscience-related Degrees in New Hampshire, AY 2006

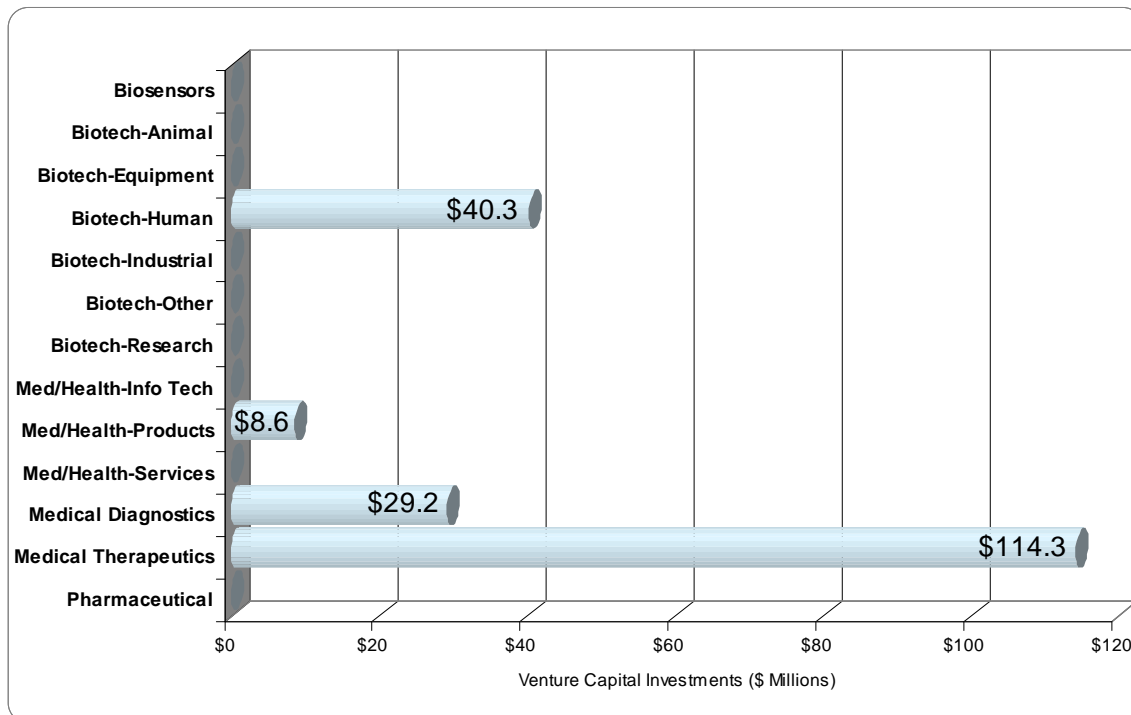


Bioscience Venture Capital

Bioscience-related Venture Capital Investments in New Hampshire, 2002–2007

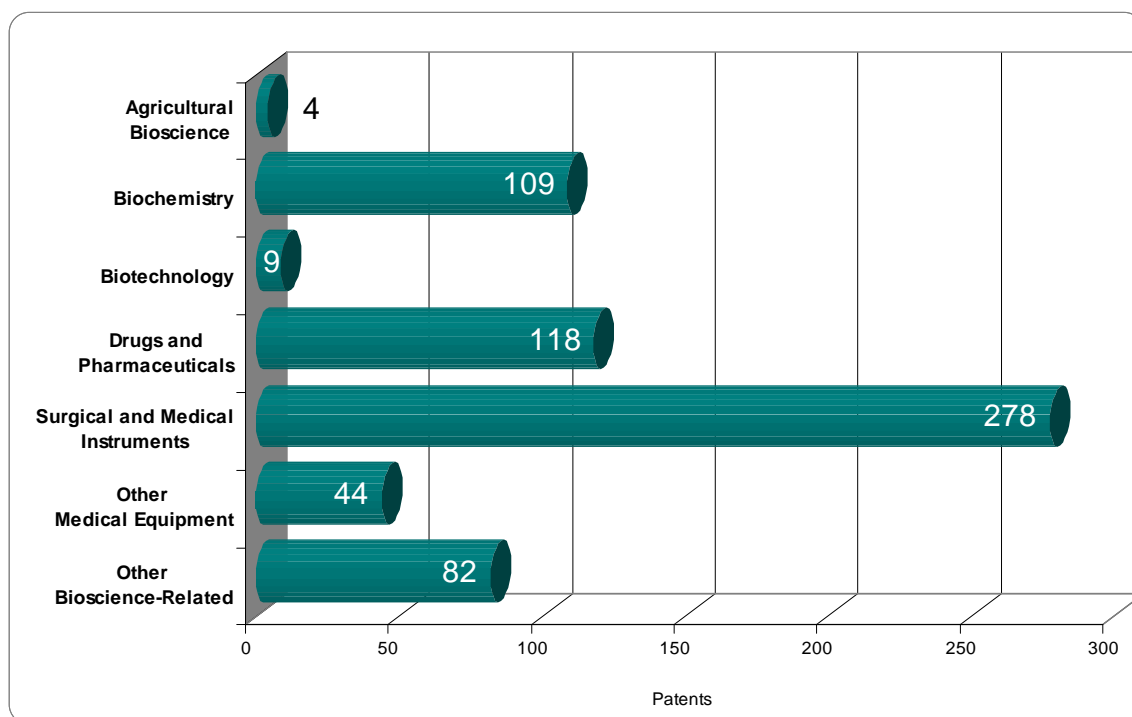


Bioscience-related Venture Capital Investments in New Hampshire by Segment, 2002–2007



Bioscience Patents

Bioscience-related Patents by Classification Group in New Hampshire, 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.