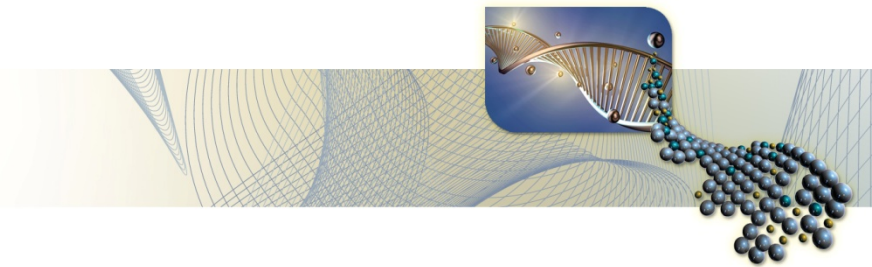


MAINE



Maine has a specialized concentration of employment in the research, testing and medical laboratories subsector (location quotient of 1.22). Overall job growth in the three remaining bioscience subsectors—agricultural feedstock and chemicals, drugs and pharmaceuticals, and medical devices and equipment—has outpaced the nation since 2001. Academic bioscience research expenditures were \$55 million in 2008, with the largest shares in biological and agricultural sciences. Funding from the National Institutes of Health totaled \$85 million in 2009. Maine’s 185 bioscience patents over the last six years have been primarily in biochemistry and in drugs and pharmaceuticals.

●●● Bioscience Performance Metrics

Summary of State Performance in Selected Bioscience-related Metrics

| Metrics | Maine | United States | Rank* |
|--|----------|---------------|-------|
| Bioscience Industry, 2008 | | | |
| Total Bioscience Industry Employment, 2008 | 5,845 | 1,420,324 | IV |
| Bioscience Industry Location Quotient, 2008 | 0.93 | n/a | II |
| Biosciences Industry Establishments, 2008 | 224 | 47,593 | IV |
| Academic R&D Expenditures, FY 2008 | | | |
| Bioscience R&D (\$ thousands) | \$55,376 | \$31,818,810 | 48 |
| Bioscience Share of Total R&D | 43.2% | 61.3% | 46 |
| Bioscience R&D Per Capita | \$41.96 | \$104.54 | 48 |
| Change in Bioscience R&D, FY 2004–08 | 64.3% | 22.3% | 2 |
| NIH Funding, FY 2009 | | | |
| Total, Including ARRA Funds (\$ thousands) | \$85,286 | \$25,837,590 | 38 |
| Per Capita Funding | \$64.69 | \$84.16 | 24 |
| Change in Baseline Funding, FY 2004–09** | -9.0% | -4.7% | 40 |
| Change in Total Funding, FY 2004–09 | 17.0% | 14.6% | 29 |
| Clinical Trials, Initiated 2009 | 71 | 5,299 | 46 |
| Higher Education Degrees in Bioscience Fields, AY 2008 | 663 | 161,811 | 42 |
| Employment in Bioscience-related Occupations, 2008 | 2,720 | 717,510 | 41 |
| Bioscience Venture Capital Investments, 2004–09 (\$ millions) | \$19.5 | \$60,099 | 44 |
| Bioscience and Related Patents, 2004–09 | 185 | 75,593 | 42 |

*State ranking figures for bioscience industry employment metrics are calculated as quintiles (I=Top Quintile; V=Bottom Quintile). All other metrics are ranked 1-52.

**Baseline Funding does not include American Recovery and Reinvestment Act (ARRA) funds for 2009.

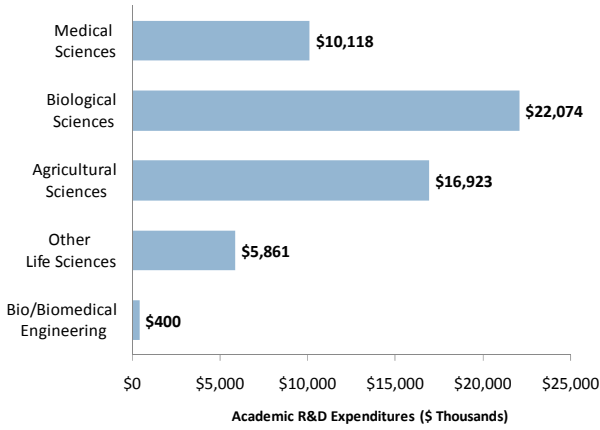
For source notes, see end of State Profile.

| INDUSTRY SUBSECTOR | Maine | | United States | |
|--|----------|----------------|---------------|----------------|
| | 2008 | 2001-08 Change | 2008 | 2001-08 Change |
| AGRICULTURAL FEEDSTOCK & CHEMICALS | | | | |
| Establishments | 16 | 53.3% | 2,440 | 16.0% |
| Employment | 204 | 17.0% | 114,793 | 1.9% |
| Location Quotient | 0.40 | | n/a | |
| Direct-Effect Employment Multiplier | 3.32 | | 11.33 | |
| Total Employment Impact | 678 | | 1,284,650 | |
| Average Annual Wage | \$39,077 | | \$72,279 | |
| DRUGS & PHARMACEUTICALS | | | | |
| Establishments | 22 | 0.0% | 2,771 | 6.4% |
| Employment | 1,456 | 55.6% | 311,882 | 2.3% |
| Location Quotient | 1.06 | | n/a | |
| Direct-Effect Employment Multiplier | 5.17 | | 9.92 | |
| Total Employment Impact | 7,532 | | 2,873,278 | |
| Average Annual Wage | \$71,443 | | \$93,378 | |
| MEDICAL DEVICES & EQUIPMENT | | | | |
| Establishments | 51 | 19.1% | 15,227 | 0.4% |
| Employment | 1,185 | 21.1% | 435,509 | 2.0% |
| Location Quotient | 0.62 | | n/a | |
| Direct-Effect Employment Multiplier | 2.37 | | 4.87 | |
| Total Employment Impact | 2,807 | | 2,029,581 | |
| Average Annual Wage | \$34,434 | | \$63,606 | |
| RESEARCH, TESTING, & MEDICAL LABORATORIES | | | | |
| Establishments | 135 | 52.1% | 27,154 | 57.7% |
| Employment | 3,000 | 32.0% | 558,140 | 46.1% |
| Location Quotient | 1.22 | | n/a | |
| Direct-Effect Employment Multiplier | 2.00 | | 3.30 | |
| Total Employment Impact | 5,996 | | 1,853,127 | |
| Average Annual Wage | \$49,743 | | \$80,785 | |
| TOTAL BIOSCIENCES INDUSTRY | | | | |
| Establishments | 224 | 36.6% | 47,593 | 28.3% |
| Employment | 5,845 | 34.0% | 1,420,324 | 15.8% |
| Location Quotient | 0.93 | | n/a | |
| Direct-Effect Employment Multiplier | 2.91 | | 5.82 | |
| Total Employment Impact | 17,012 | | 8,040,636 | |
| Average Annual Wage | \$51,673 | | \$77,595 | |
| TOTAL PRIVATE SECTOR | | | | |
| Establishments | 47,686 | 10.3% | 8,860,956 | 13.8% |
| Employment | 502,090 | 1.1% | 113,917,377 | 3.5% |
| Average Annual Wage | \$35,624 | | \$45,229 | |

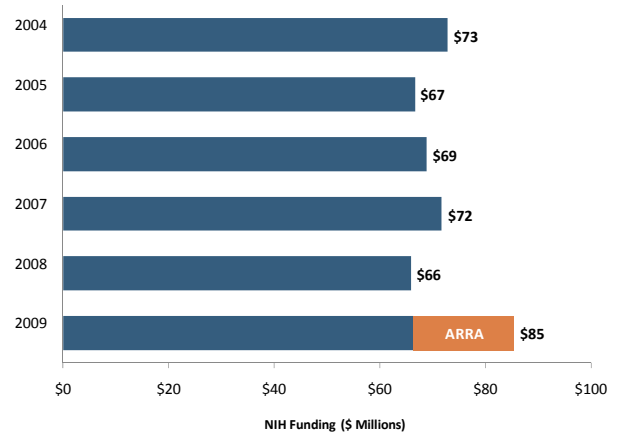
Note: U.S. employment metrics include Puerto Rico. Estimates of total employment impacts do not include Puerto Rico.

●●● Bioscience Performance Metrics

Bioscience Academic R&D Expenditures in Maine, FY 2008

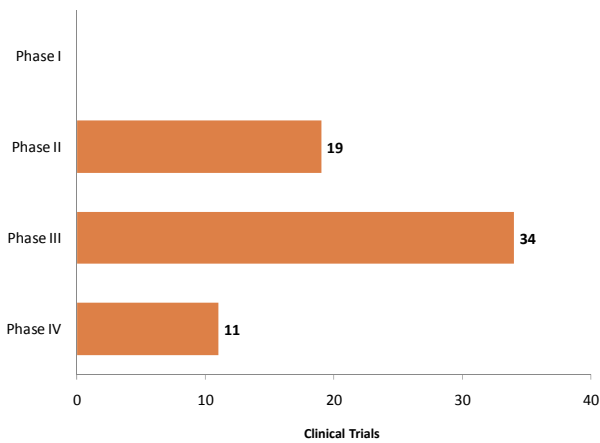


NIH Awards in Maine, 2004–2009

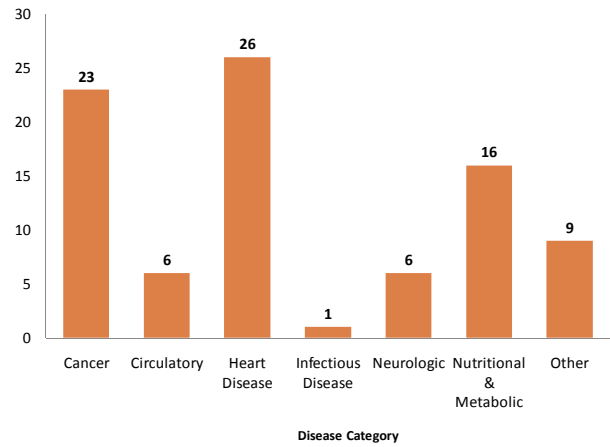


●●● Recent Clinical Trial Activities

Clinical Trials by Phase in Maine, 2009

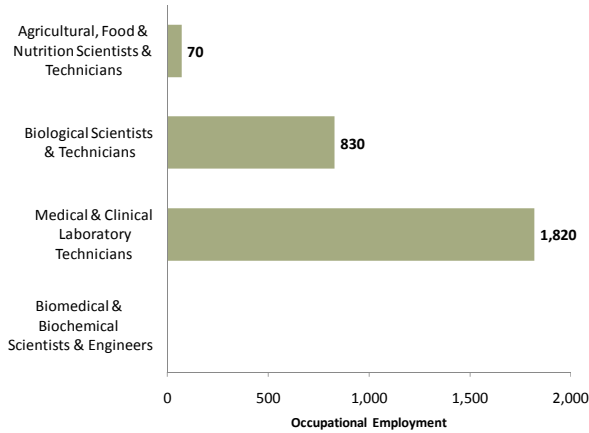


Clinical Trials by Major Disease Category in Maine, 2009

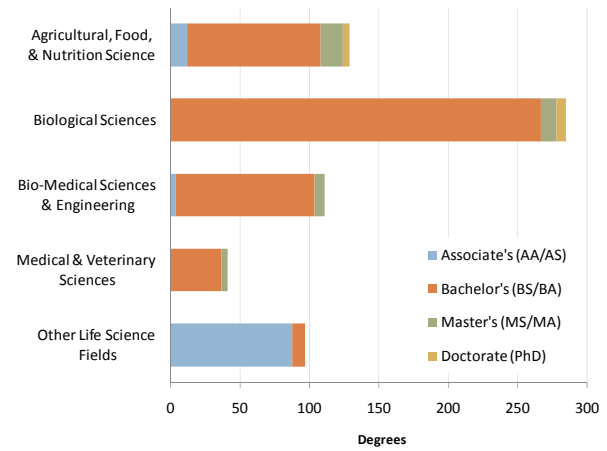


Bioscience Talent Base

Bioscience-related Occupational Employment in Maine, 2008

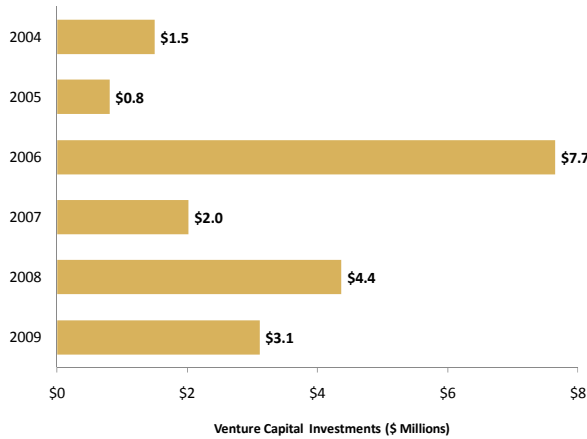


Bioscience-related Degrees in Maine, AY 2008

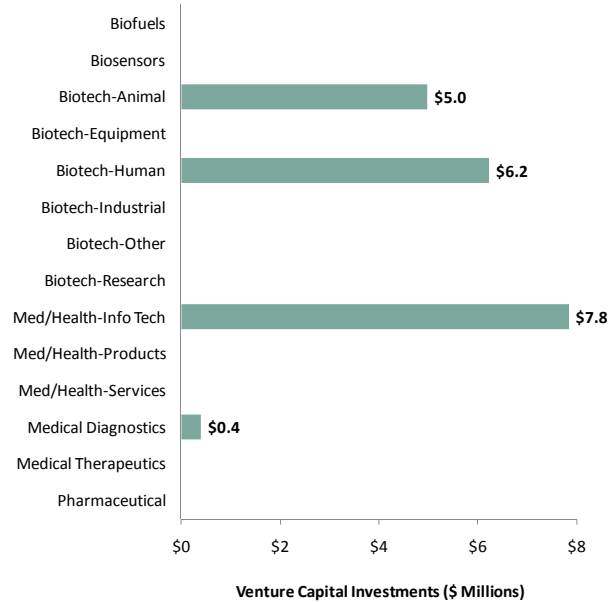


Bioscience Venture Capital

Bioscience-related Venture Capital Investments in Maine, 2004–2009

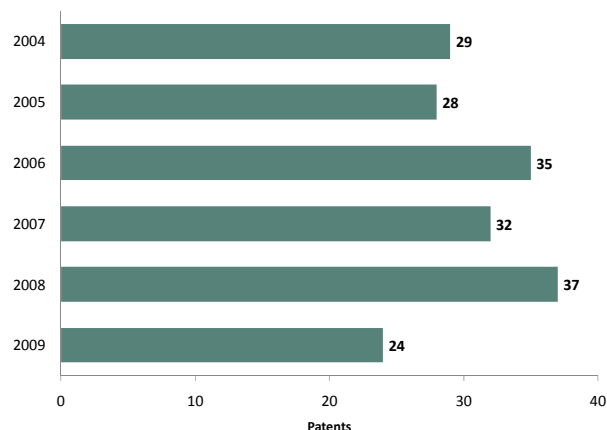


Bioscience-related Venture Capital Investments in Maine by Segment, 2004–2009

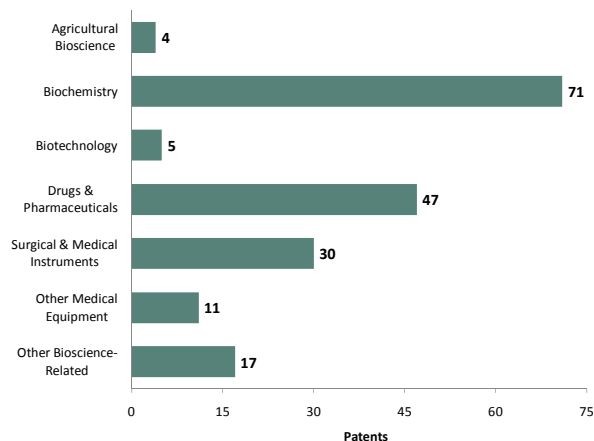


●●● Bioscience Patents

Bioscience-related Patents in Maine, 2004–2009



Bioscience-related Patents by Classification Group in Maine, 2004–2009



State Bioscience Contact

Biotechnology Association of Maine

415 Congress, Suite 202

Portland, ME 04101

P: (207) 699-1317

F: (207) 699-1380

www.mainebiotech.org

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 2008.

Employment Multipliers: U.S. Bureau of Economic Analysis RIMS II Employment Multipliers, 2006 (most currently available).

Academic R&D Expenditures: National Science Foundation (NSF) Survey of Research and Development Expenditures at Universities and Colleges, 2004 and 2008.

NIH Funding: National Institutes of Health, Office of Extramural Research, Award Trends, Dollars Awarded by State, 2004 and 2009.

Clinical Trials: National Institutes of Health, Clinicaltrials.gov, trials that were initiated in 2009.

Higher Education Degrees: National Center for Educational Statistics, Integrated Postsecondary Education Data System (IPEDS), 2008.

Occupational Employment: U.S. Bureau of Labor Statistics, Occupational Employment Statistics (OES) survey data, 2008.

Venture Capital: Thomson Reuters' VentureXpert Database, 2004–2009, as of January 15, 2010.

Patents: U.S. Patent & Trademark Office data as available from the Thomson Reuters' Delphion Patent Analysis Database, 2004–2009, as of January 15, 2010.

For a more detailed discussion of the data and methodology used, please see the Appendix to the full national report. ©2010