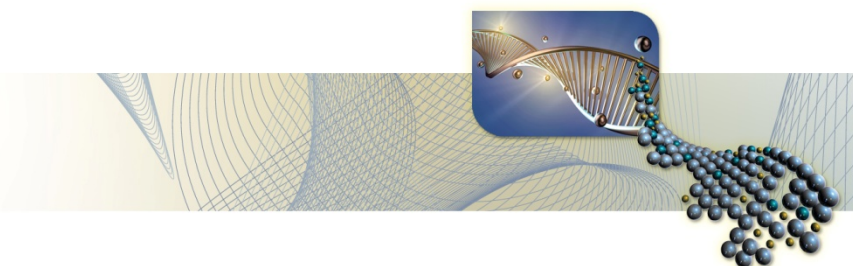


PUERTO RICO



Puerto Rico has a highly specialized bioscience industry. The territory has an extremely high employment specialization (location quotient of 11.50) and more than 5 percent of national employment in the drugs and pharmaceuticals subsector, and an additional very strong employment specialization in medical devices and equipment (location quotient of 5.55) and in research, testing and medical laboratories (1.53). Total academic bioscience research and development expenditures were \$57.5 million in 2008, mainly in the medical sciences. Puerto Rico had bioscience venture capital investments in 2006, 2007, and 2008, totaling \$30.8 million, all in medical/health services. Puerto Rican higher education institutions graduated 1,627 students with degrees in bioscience-related fields in 2008, contributing to the industry's talent base.

●●● Bioscience Performance Metrics

Summary of State Performance in Selected Bioscience-related Metrics

Metrics	Puerto Rico	United States	Rank*
Bioscience Industry, 2008			
Total Bioscience Industry Employment, 2008	43,104	1,420,324	I
Bioscience Industry Location Quotient, 2008	4.83	n/a	I
Biosciences Industry Establishments, 2008	886	47,593	II
Academic R&D Expenditures, FY 2008			
Bioscience R&D (\$ thousands)	\$57,546	\$31,818,810	47
Bioscience Share of Total R&D	57.3%	61.3%	27
Bioscience R&D Per Capita	\$14.55	\$104.54	52
Change in Bioscience R&D, FY 2004–08	-0.6%	22.3%	47
NIH Funding, FY 2009			
Total, Including ARRA Funds (\$ thousands)	\$66,429	\$25,837,590	42
Per Capita Funding	\$16.74	\$84.16	49
Change in Baseline Funding, FY 2004–09**	-4.7%	-4.7%	31
Change in Total Funding, FY 2004–09	11.2%	14.6%	38
Clinical Trials, Initiated 2009	72	5,299	45
Higher Education Degrees in Bioscience Fields, AY 2008	1,627	161,811	33
Employment in Bioscience-related Occupations, 2008	4,900	717,510	35
Bioscience Venture Capital Investments, 2004–09 (\$ millions)	\$30.8	\$60,099	40
Bioscience and Related Patents, 2004–09	35	75,593	51

*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.

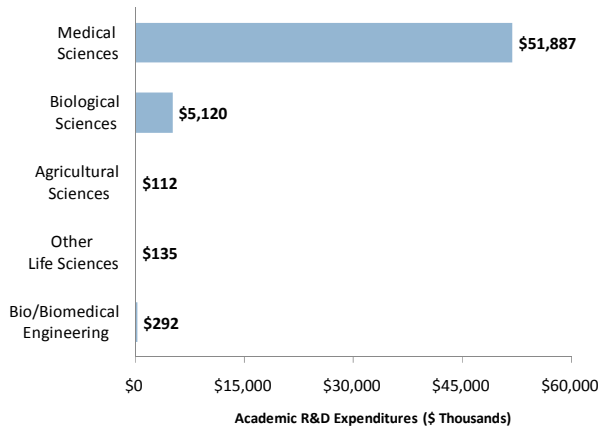
●●● Bioscience Industry Base, 2008

INDUSTRY SUBSECTOR	Puerto Rico		United States	
	2008	2001-08 Change	2008	2001-08 Change
AGRICULTURAL FEEDSTOCK & CHEMICALS				
Establishments			2,440	16.0%
Employment			114,793	1.9%
Location Quotient			n/a	
Direct-Effect Employment Multiplier			11.33	
Total Employment Impact			1,284,650	
Average Annual Wage			\$72,279	
DRUGS & PHARMACEUTICALS				
Establishments	74	-2.6%	2,771	6.4%
Employment	22,556	-5.0%	311,882	2.3%
Location Quotient	11.50		n/a	
Direct-Effect Employment Multiplier	N/A		9.92	
Total Employment Impact	N/A		2,873,278	
Average Annual Wage	\$61,465		\$93,378	
MEDICAL DEVICES & EQUIPMENT				
Establishments	111	26.1%	15,227	0.4%
Employment	15,195	10.6%	435,509	2.0%
Location Quotient	5.55		n/a	
Direct-Effect Employment Multiplier	N/A		4.87	
Total Employment Impact	N/A		2,029,581	
Average Annual Wage	\$33,544		\$63,606	
RESEARCH, TESTING, & MEDICAL LABORATORIES				
Establishments	701	27.5%	27,154	57.7%
Employment	5,353	30.4%	558,140	46.1%
Location Quotient	1.53		n/a	
Direct-Effect Employment Multiplier	N/A		3.30	
Total Employment Impact	N/A		1,853,127	
Average Annual Wage	\$23,332		\$80,785	
TOTAL BIOSCIENCES INDUSTRY				
Establishments	886	23.4%	47,593	28.3%
Employment	43,104	2.8%	1,420,324	15.8%
Location Quotient	4.83		n/a	
Direct-Effect Employment Multiplier	N/A		5.82	
Total Employment Impact	N/A		8,040,636	
Average Annual Wage	\$46,887		\$77,595	
TOTAL PRIVATE SECTOR				
Establishments	55,670	12.0%	8,860,956	13.8%
Employment	716,100	-1.3%	113,917,377	3.5%
Average Annual Wage	\$24,055		\$45,229	

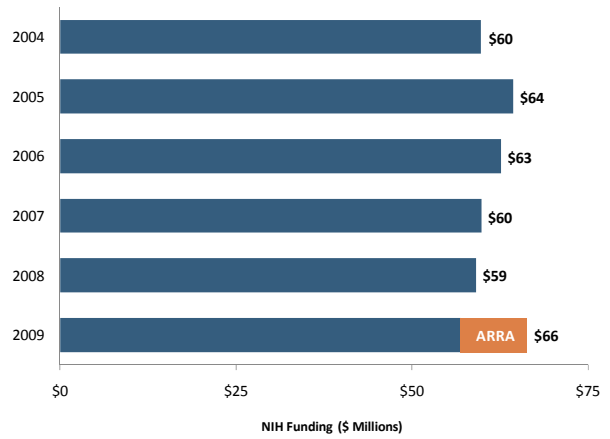
Note: U.S. employment metrics include Puerto Rico. Estimates of total employment impacts do not include Puerto Rico.

●●● Bioscience Performance Metrics

Bioscience Academic R&D Expenditures in Puerto Rico, FY 2008

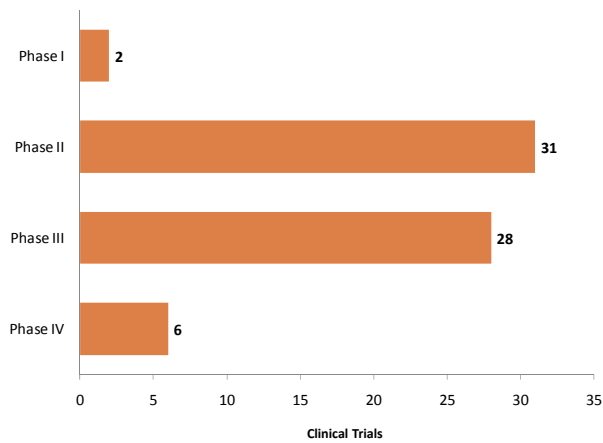


NIH Awards in Puerto Rico, 2004–2009

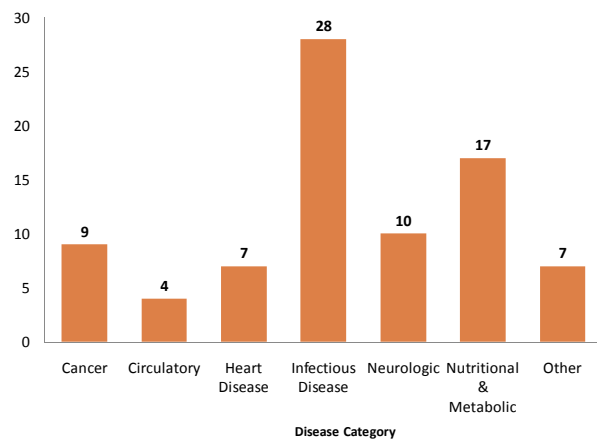


●●● Recent Clinical Trial Activities

Clinical Trials by Phase in Puerto Rico, 2009

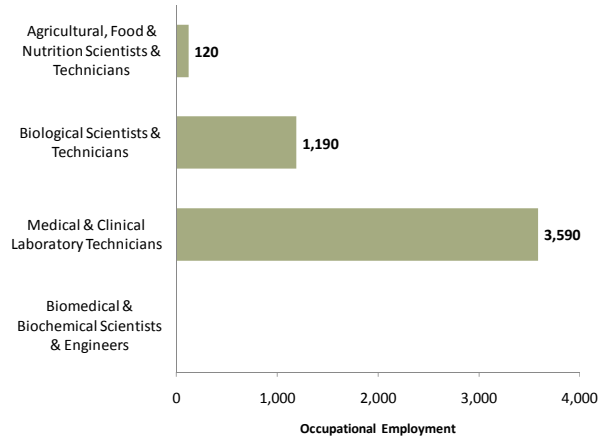


Clinical Trials by Major Disease Category in Puerto Rico, 2009

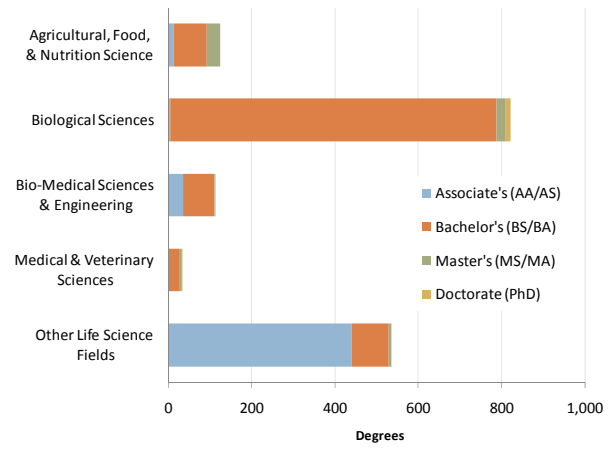


●●● Bioscience Talent Base

Bioscience-related Occupational Employment in Puerto Rico, 2008

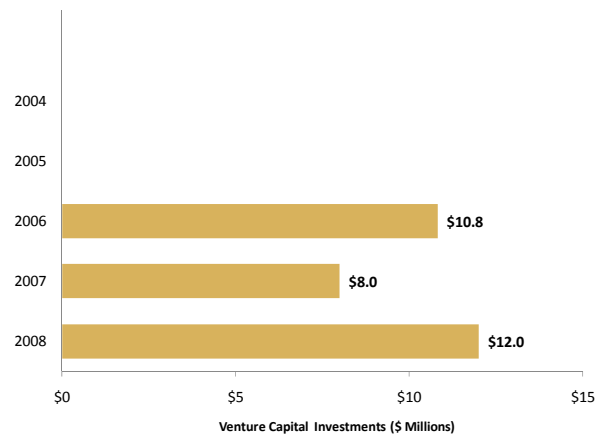


Bioscience-related Degrees in Puerto Rico, AY 2008

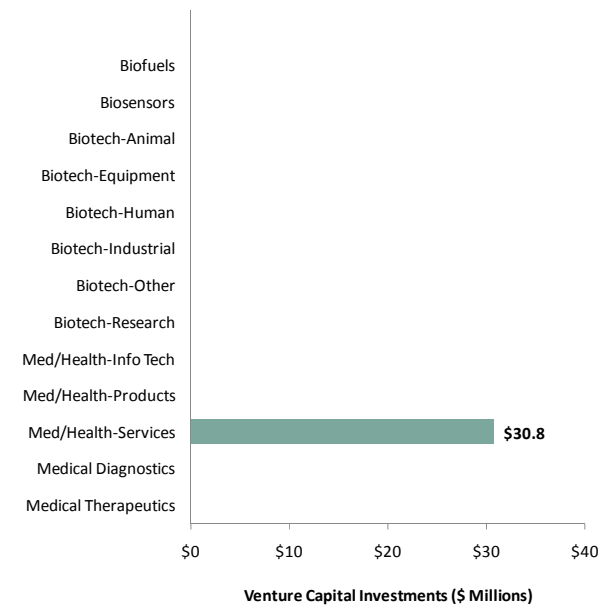


●●● Bioscience Venture Capital

Bioscience-related Venture Capital Investments in Puerto Rico, 2004–2009

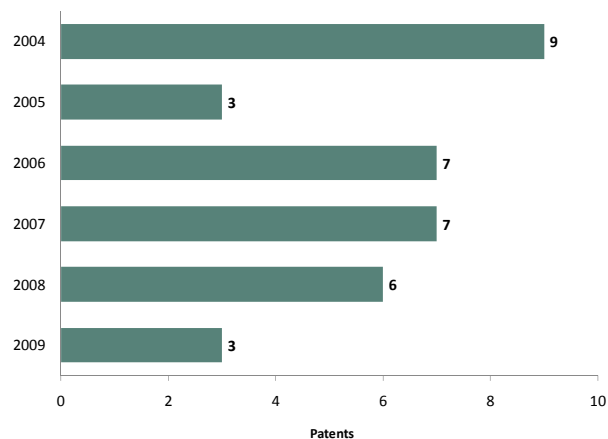


Bioscience-related Venture Capital Investments in Puerto Rico by Segment, 2004–2009

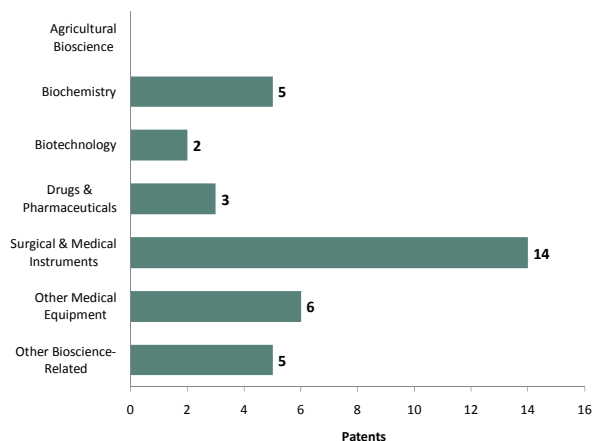


●●● Bioscience Patents

Bioscience-related Patents in Puerto Rico, 2004–2009



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



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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 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