

## IDAHO

Idaho has an employment specialization in two bioscience subsectors—agricultural feedstock and chemicals (location quotient of 1.89) and research, testing, and medical laboratories (1.86). In 2006, the agricultural sciences accounted for more than half the State's \$63.6 million in academic bioscience research expenditures, followed by biological and medical sciences. The 165 patents issued during the past 6 years were mainly in the categories of drugs and pharmaceuticals and biochemistry, followed by surgical and medical equipment.

#### Major Industry Developments and Recent Successes

- **Biopol Laboratory**, part of the ALK-Abella Group, is building a new \$30 million manufacturing and R&D facility in Post Falls. The operation, which will produce raw materials for its allergy immunotherapy products, is expected to employ about 50 people when it is completed in 2009.
- **RxElite Holdings**, a developer, manufacturer, and marketer of generic prescription drug products, was named by *Entrepreneur Magazine* as one of the 500 fastest-growing businesses in 2007. The company is located in Meridian.

### Recent State Initiatives

In March 2008, Governor C. L. “Butch” Otter signed legislation creating a \$150,000 **Grant Proposal Incentive Fund** to help entrepreneurs and small businesses apply for federal grants such as the Small Business Innovation Research/Small Business Technology Transfer (SBIR/STTR) program. The Fund will be administered by the Idaho Department of Commerce in cooperation with Idaho TechConnect, a statewide organization with four regional offices that links entrepreneurs and technology-based companies to Idaho resources.

The Idaho Legislature included \$1.56 million for competitive research grants in the Higher Education Research Council's FY 2009 budget and appropriated \$1.6 million for the **Center for Advanced Energy Studies (CAES)** at University Place in Idaho Falls. CAES is a public-private partnership that includes Boise State University, Idaho State University, the University of Idaho, private industry, and the Idaho National Laboratory. Bioprocessing, bioenergy production, and development of microbial fuel cells are among the areas of research at CAES. In 2007, the State Board of Education awarded \$1 million to Boise State University to establish a **Center for Musculoskeletal Research**. The Center will coordinate studies on osteoarthritis.

For additional information on Idaho's bioscience policies and programs, please see <http://commerce.idaho.gov/technology/> and <http://www.idahotechconnect.com>.

## Bioscience Industry Base, 2006

Industry Subsector	Idaho		United States	
	2006	2001-06 Change	2006	2001-06 Change
<b>Agricultural Feedstock &amp; Chemicals</b>				
Establishments	43	53.8%	2,183	3.8%
Employment	939	-12.0%	105,846	-6.1%
Location Quotient	1.89		n.a.	
Direct-Effect Employment Multiplier	6.81		11.22	
Total Employment Impact	6,395		1,214,709	
Average Annual Wage	\$52,898		\$67,870	
<b>Drugs &amp; Pharmaceuticals</b>				
Establishments	16	211.1%	2,654	1.9%
Employment	149	-51.2%	317,149	4.0%
Location Quotient	0.10		n.a.	
Direct-Effect Employment Multiplier	5.70		9.92	
Total Employment Impact	849		2,880,242	
Average Annual Wage	\$47,315		\$86,892	
<b>Medical Devices &amp; Equipment</b>				
Establishments	107	30.5%	15,215	0.3%
Employment	901	-10.0%	422,993	-0.9%
Location Quotient	0.45		n.a.	
Direct-Effect Employment Multiplier	2.63		4.85	
Total Employment Impact	2,366		1,980,128	
Average Annual Wage	\$47,444		\$59,441	
<b>Research, Testing, &amp; Medical Laboratories</b>				
Establishments	122	16.4%	22,857	32.7%
Employment	3,929	-0.4%	449,991	17.8%
Location Quotient	1.86		n.a.	
Direct-Effect Employment Multiplier	2.48		3.25	
Total Employment Impact	9,734		1,440,500	
Average Annual Wage	\$69,239		\$71,284	
<b>Total Private Sector</b>				
Establishments	51,971	19.0%	8,575,730	10.2%
Employment	533,019	14.2%	113,463,842	3.1%
Average Annual Wage	\$32,398		\$42,272	

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

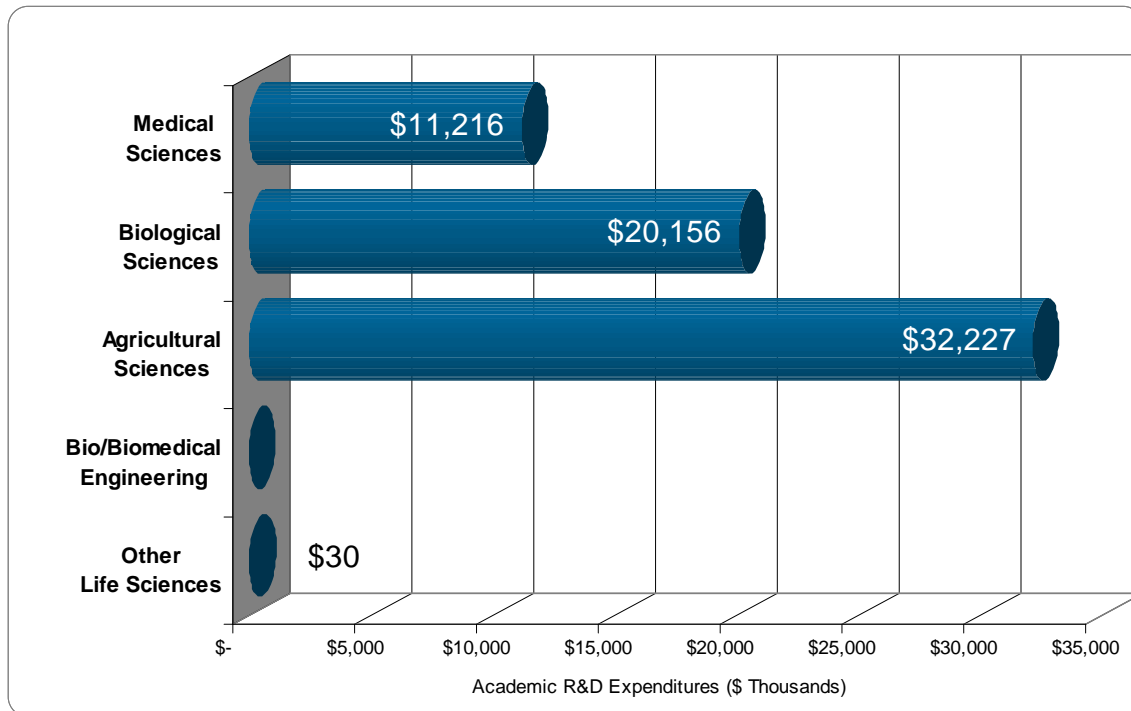
## Additional Bioscience Performance Metrics

### Summary of State Performance in Selected Bioscience-related Metrics

	Idaho	United States	Rank
Academic R&D Expenditures, FY 2006			
Total (\$ thousands)	\$111,465	\$47,760,402	49
Bioscience R&D (\$ thousands)	\$63,629	\$29,307,628	45
Bioscience Share of Total R&D	57.1%	61.4%	
Bioscience R&D Per Capita	\$43.47	\$98.10	
Change in Bioscience R&D FY 2002–2006	11.9%	36.9%	
NIH Funding, FY 2007			
Total (\$ thousands)	\$9,557	\$21,066,389	51
Per Capita Funding	\$6.37	\$69.84	
Change in Funding, FY 2002–2007	-19.0%	11.2%	
Higher Education Degrees in Bioscience Fields, AY 2006	763	143,433	39
Employment in Bioscience-related Occupations, 2006	2,770	588,520	38
Bioscience Venture Capital Investments, 2002-2007 (\$ millions)	\$6.4	\$51,260.9	43
Bioscience and Related Patents, 2002-2007	165	121,817	45

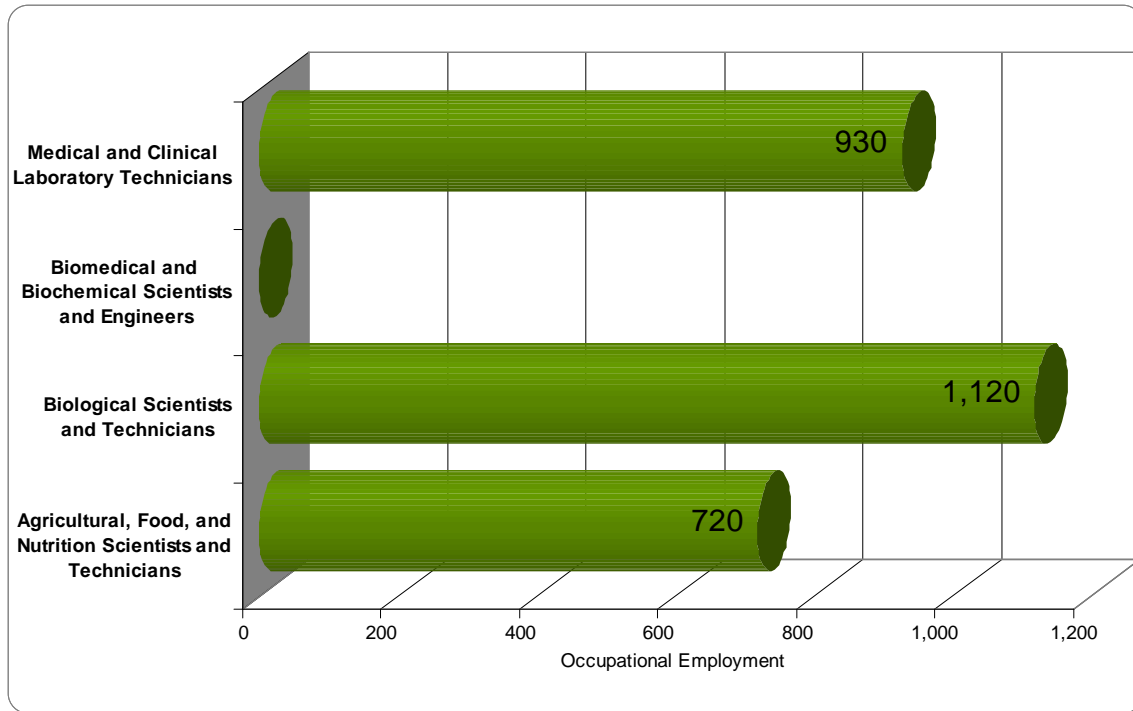
## Bioscience R&D Base

### Bioscience Academic R&D Expenditures in Idaho, FY 2006

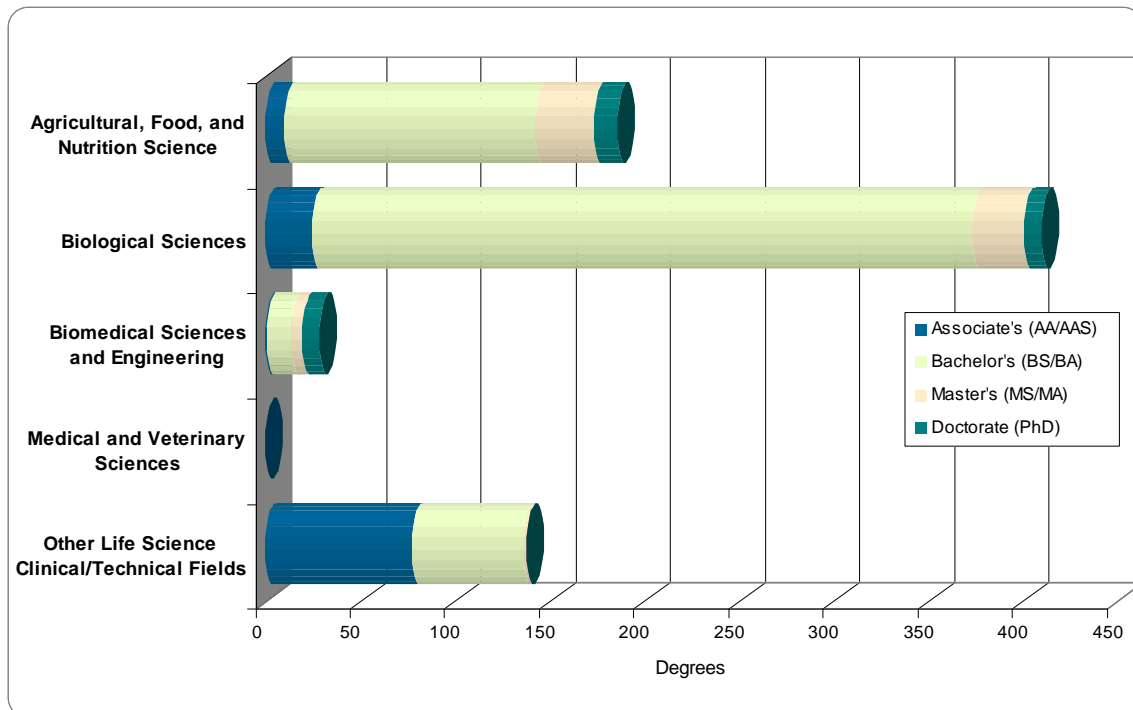


## Bioscience Talent Base

### Bioscience-related Occupational Employment in Idaho, 2006

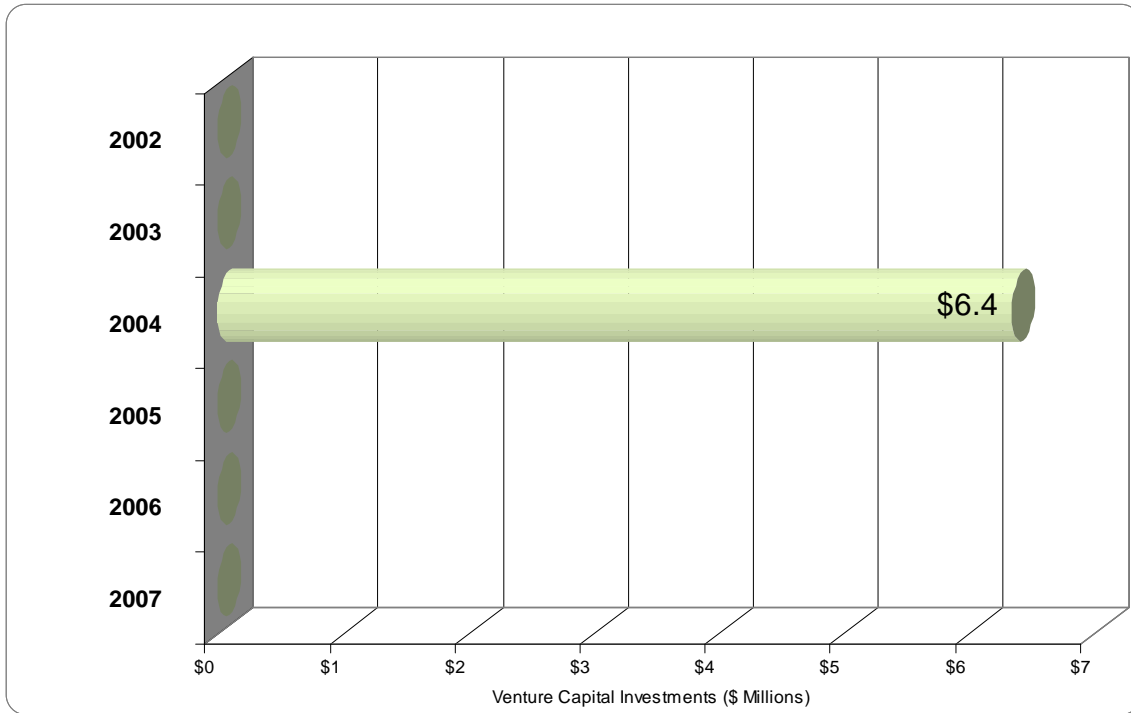


### Bioscience-related Degrees in Idaho, 2006

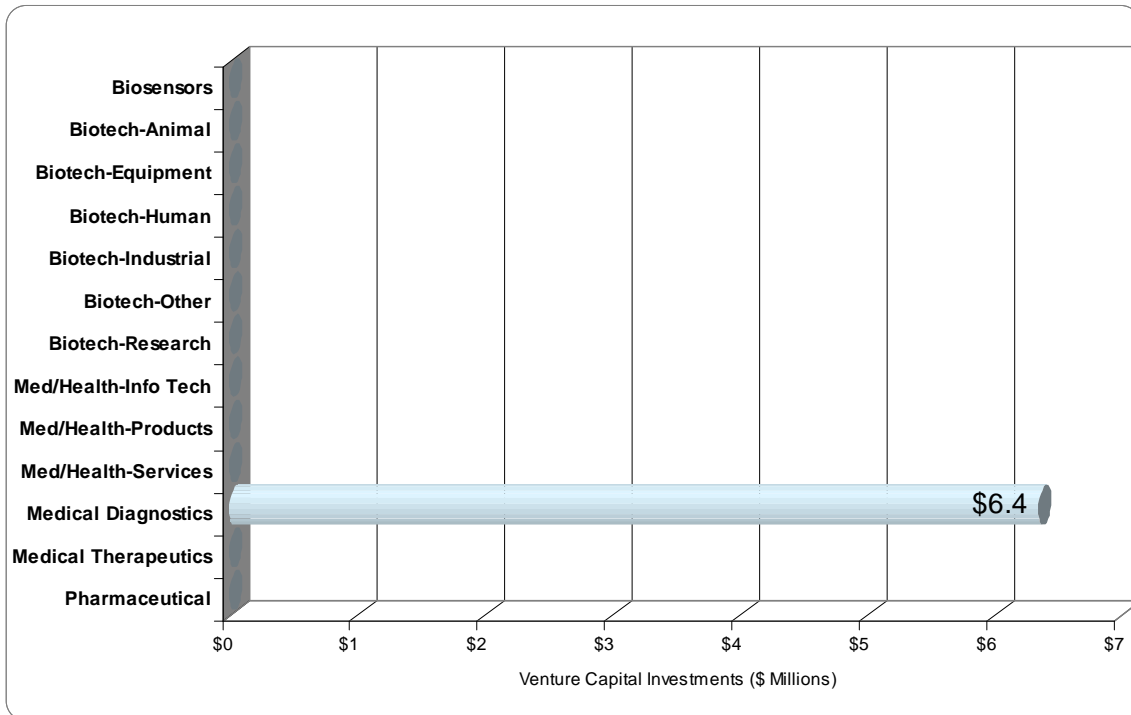


## Bioscience Venture Capital

### Bioscience-related Venture Capital Investments in Idaho, 2002–2007

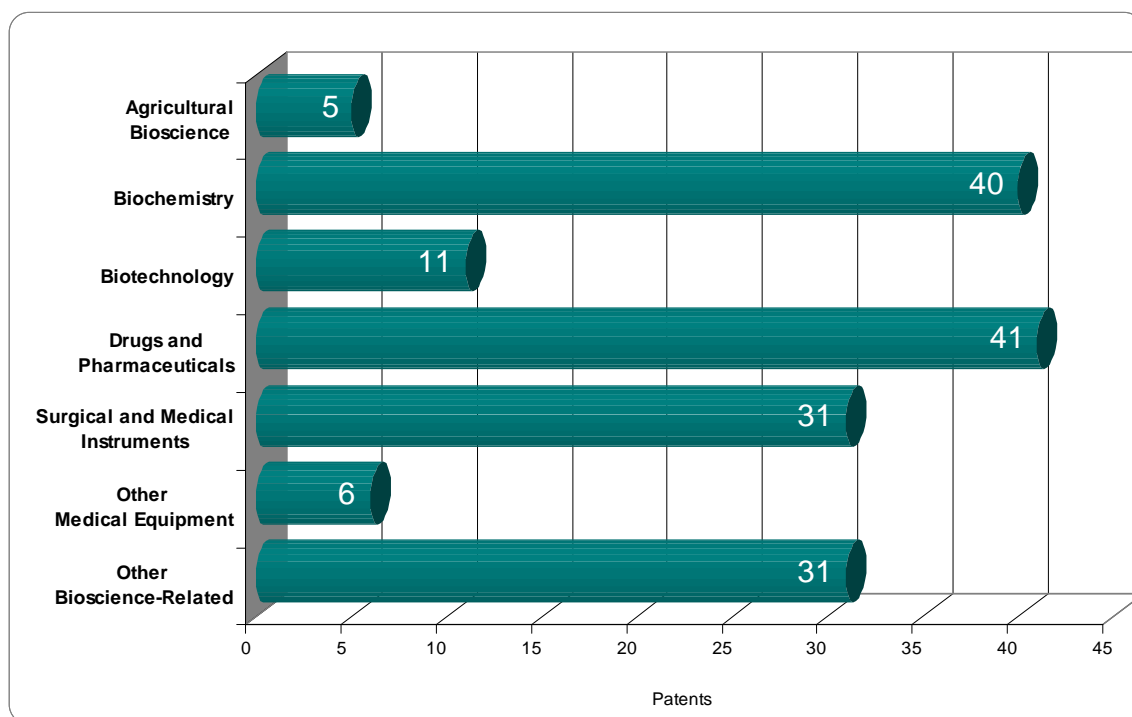


### Bioscience-related Venture Capital Investments in Idaho by Segment, 2002–2007



## Bioscience Patents

### Bioscience-related Patents by Classification Group in Idaho, 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.